Audited Annual Report

# JPMorgan ETFs (Ireland) ICAV

(An Irish collective asset-management vehicle constituted as an umbrella fund with segregated liability between Sub-Funds)

(CBI Reg No C171821)

31 December 2022





Audited Annual Report

For the year ended 31 December 2022

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For additional information, please consult www.jpmorganassetmanagement.ie.

Before subscribing for Shares, each investor will be required to confirm that they have received the relevant key investor information documents ("KIID"). The KIIDs and the latest annual and any semi-annual reports of the ICAV are available to download on the website.

Directors and General Information

#### Directors

Lorcan Murphy

(Independent Non-Executive Director, Chairman and Irish resident)

Daniel J. Watkins

(Connected Non-Executive Director)

Bronwyn Wright

(Independent Non-Executive Director and Irish resident)

Samantha McConnell

(Independent Non-Executive Director and Irish resident)

## **Investment Managers**

J.P. Morgan Investment Inc 270 Park Avenue New York, NY 10017 United States of America

JPMorgan Asset Management (UK) Limited 60 Victoria Embankment London

EC4Y OJP

United Kingdom

## Administrator and Registrar

Brown Brothers Harriman Fund Administration Services (Ireland) Limited 30 Herbert Street Dublin 2 Ireland

## **Independent Auditors**

PricewaterhouseCoopers One Spencer Dock North Wall Quay Dublin 1 Ireland

#### **Management Company**

JPMorgan Asset Management (Europe) S.à r.l. 6, route de Trèves, L-2633 Senningerberg, Grand Duchy of Luxembourg

## Depositary

Brown Brothers Harriman Trustee Services (Ireland) Limited 30 Herbert Street Dublin 2 Ireland

## **Legal Advisors**

Matheson 70 Sir John Rogerson's Quay Dublin 2 Ireland

## Secretary

J.P. Morgan Administration Services (Ireland) Limited 200 Capital Dock 79 Sir John Rogerson's Quay Dublin 2, DO2 RK57 Ireland

## **Registered Office**

200 Capital Dock 79 Sir John Rogerson's Quay Dublin 2, DO2 RK57 Ireland

Board of Directors' Report For the year ended 31 December 2022

The Board of Directors (the "Board") is pleased to present the Audited Annual Report of JPMorgan ETFs (Ireland) ICAV (the "Fund") for the year ended 31 December 2022.

#### **Board of Directors**

Lorcan Murphy (Independent Non-Executive Director, Chairman and Irish resident. A member of the Board since July 2017) is an Independent Non-Executive Director and marketing and distribution consultant for a number of Irish and UK companies providing 20 years' knowledge of global mutual funds, spanning operational management, risk management, compliance, product development and asset gathering. He is former Head of Private Wealth, EMEA and former Head of Pooled Funds Group with Barclays Global Investors Ltd. Mr Murphy has been admitted to the Institute of Chartered Accountants in Ireland and has a Bachelor of Business Science degree (Economics major) from Trinity College Dublin.

Daniel J. Watkins (Connected Non-Executive Director. A member of the Board since July 2017) is the Chief Executive Officer of Asia Pacific, J.P. Morgan Asset Management. He is responsible for overseeing the Asset Management Asia Pacific business, which operates in seven locations and includes more than 1,400 employees. Mr Watkins is a member of the Asset Management Operating Committee and the firm-wide Asia Pacific Management team. Mr Watkins has been an employee since 1997. Prior to taking his current role in 2019, he was Deputy CEO of JPMorgan Asset Management Europe and Global Head of AM Client Services and Business Platform. Mr Watkins has also held a number of positions at JPMorgan namely Head of Europe COO and Global IM Operations, Head of the European Operations Team, Head of the European Transfer Agency, Head of Luxembourg Operations, manager of European Transfer Agency and London Investment Operations and manager of the Flemings Investment Operations Teams. Mr Watkins obtained a BA in Politics from the University of York and is a qualified Financial Advisor. Mr Watkins is currently a Director of several JPMorgan managed Luxembourg and Irish domiciled investment funds and also several Asia Pacific legal entities.

Bronwyn Wright (Independent Non-Executive Director and Irish resident. A member of the Board since July 2017) is a former Managing Director for a global financial institution, having worked in Capital Markets and Banking, where she was Head of Securities and Fund Services for Ireland with responsibility for the management, growth and strategic direction of the securities and fund services business which included funds, custody, security finance and global agency and trust. Due to her role in managing, leading and growing the European fiduciary business, Ms Wright has extensive knowledge of regulatory requirements and best market practice in the UK, Luxembourg, Jersey and Ireland. She has sat and chaired the boards of the applicable legal vehicles for the fiduciary businesses in each jurisdiction. Due to her engagement in due diligence exercises she also understands the Nordics, Germany and Asia. She has also been engaged in pre-acquisition due diligence in Asia and led a post-acquisition integration across EMEA.

Ms Wright holds a degree in Economics and Politics as well as a Masters degree in Economics from University College Dublin. Ms Wright is past chairperson of the Irish Funds Industry Association Committee for Trustee Services. Bronwyn has contributed to the Irish Funds educational development in various capacities, including co-author of a Diploma in Mutual Funds, virtual web based lectures in financial services and part of an executive committee for a PhD finance programme. She has written numerous industry articles and chairs and participates in industry seminars in Europe and the US.

Samantha McConnell (Independent Non-Executive Director and Irish resident. A member of the Board since April 2020) has over 25 years' experience in the investment and pensions industry covering administration, investment services, change and integration management as well as expert in devising solutions to complex issues. She has acted as an independent, Non-Executive Director (INED) on a wide range of Boards including fund, MIFID, AIFIM and SuperManco entities for over seven years. She is the Chair of the investment committee in two of the AIFM boards as well as Chair of one of the MIFID entities. Ms McConnell is a Non-Executive Director for CFA Ireland and was previously an Executive Director of Willis Human Capital & Benefits (Willis Towers Watson's MIFID regulated entity in Ireland).

Ms McConnell holds a first-class honours degree in commerce from University College Dublin and graduated first in Ireland in the ACCA exams. She is a CFA Charterholder, a holder of the Institute of Directors Diploma in Company Direction where she graduated first in UK & Ireland and was awarded the Graduate of Merit award from the Institute of Directors.

## Structure of the Fund

The Fund is a variable capital investment company, organised as an "Irish Collective Asset-management Vehicle ("ICAV")", under the laws of the Republic of Ireland. The Board has appointed JPMorgan Asset Management (Europe) S.à r.l. ("JPMAME") as Management Company of the Fund. The Fund is organised as an "umbrella" with a number of Sub-Funds each of which has its own investment objective, policies and restrictions.

The Fund was authorised as an ICAV by the Central Bank of Ireland ("CBI") on 18 July 2017.

The objective of the ICAV is the collective investment in transferable securities and/or other liquid financial assets of capital raised from the public, operating on the principle of risk spreading in accordance with the European Communities (Undertakings for Collective Investment in Transferable Securities) Regulations 2011 (as amended) (the "UCITS Regulations").

The Fund qualifies as an Undertaking for Collective Investment in Transferable Securities ("UCITS") under the EC Directive 2009/65/EC of 13 July 2009 and is subject to the Irish Collective Asset-management Vehicles Act 2015 (the "ICAV Act") and the UCITS Regulations. The Fund may therefore be offered for sale in European Union Member States, subject to notification in countries other than the Republic of Ireland. In addition, applications to register the Fund and its Sub-Funds may be made in other countries.

The Fund currently has 32 Sub-Funds. All of the Sub-Funds and Share Classes are registered for offer and distribution in the Republic of Ireland and a number of the Sub-Funds and Share Classes are registered for distribution in the following jurisdictions: Austria, Belgium, Croatia, Denmark, Finland, France, Germany, Italy, Liechtenstein, Luxembourg, The Netherlands, Norway, Portugal, Singapore, Spain, Sweden, Switzerland and the United Kingdom.

Certain share classes of all 32 Sub-Funds, are listed on one or more exchanges, the Euronext Dublin, London Stock Exchange, Borsa Italiana, Deutsche Borse, the Six Swiss Exchange, Mexican Stock Exchange (BMV) and Cboe Europe.

## Role and Responsibility of the Board of Directors

The Directors' are responsible for preparing the directors' report and the financial statements in accordance with applicable law and the ICAV Act, the UCITS Regulations and International Financial Reporting Standards ("IFRS"), as adopted by the European Union.

The Directors are responsible for ensuring that accounting records as outlined in Sections 109-113 of the ICAV Act are kept by the Fund. To achieve this, JPMAME have appointed Brown Brothers Harriman Fund Administration Services (Ireland) Limited as administrator of the Fund (the "Administrator"). The accounting records are maintained at the offices of the Administrator at 30 Herbert Street, Dublin 2, Ireland.

The ICAV Act requires the directors to prepare financial statements for each financial year. Under the ICAV Act, the Directors have elected to prepare the financial statements in accordance with International Financial Reporting Standards as adopted by the European Union. Under the ICAV Act, the Directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the assets, liabilities and financial position of the Sub-Funds as at the financial year end date and of the profit or loss of the Sub-Funds for the financial year and otherwise comply with the ICAV Act.

Board of Directors' Report (continued) For the year ended 31 December 2022

In preparing those financial statements, the Directors are required to:

- · select suitable accounting policies and then apply them consistently;
- · make judgments and estimates that are reasonable and prudent;
- state whether they have been prepared in accordance with the applicable accounting standards, identify those standards, and note the effect and the
  reasons for any material departure from those standards; and
- · prepare the financial statements on the going concern basis unless it is inappropriate to presume that the Fund will continue in business.

The financial statements are published on the Management Company's website. The Directors, together with the Management Company are responsible for the maintenance and integrity of the financial information included on this website. Legislation in the Republic of Ireland governing the presentation and dissemination of the financial statements may differ from legislation in other jurisdictions.

The Directors are responsible for ensuring the maintenance of adequate accounting records which disclose with reasonable accuracy at any time the assets, liabilities, financial position and profit or loss of the Sub-Funds and enable them to ensure that the financial statements comply with the ICAV Act and the UCITS Regulations. They have general responsibility for taking such steps as are reasonably open to them to safeguard the assets of the Fund. In this regard they have entrusted the assets of the Fund to Brown Brothers Harriman Trustee Services (Ireland) Limited (the "Depositary") for safe-keeping. The Directors have general responsibility for taking such steps as are reasonably open to them to prevent and detect fraud and other irregularities. The Directors are also responsible for preparing a Directors' Report that complies with the requirements of the ICAV Act.

#### **Board Governance**

A management agreement between the Fund and JPMAME sets out the matters over which the Board has delegated to the Management Company. This includes management of the Fund's assets and the provision of administration, registration, domiciliation agent and marketing services. All other matters are reserved for approval by the Board and a schedule setting out such matters for clarity is in place between the Board and the Management Company. The matters reserved for the Board include determination of each Sub-Fund's investment objective and policies, investment restrictions and powers, amendments to the Prospectus and Supplements, reviewing and approving key investment and financial data, including the annual accounts, as well as the appointment of, and review of the services provided by, the Management Company, Auditor and Depositary.

Prior to each Board meeting the Directors receive detailed and timely information allowing them to be prepared for the items under discussion during the meeting. For each quarterly meeting the Board requests, and receives, reports from, amongst others, the Management Company, the investment managers, risk management as well as proposals for changes to existing Sub-Funds or proposals to launch new ones as appropriate. Senior representatives of each of these functions attend Board meetings by invitation to enable the Directors to question the reports presented to them.

The Directors take decisions in the interests of the Fund and its shareholders as a whole and refrain from taking part in any deliberation or decision which creates a conflict of interest between their personal interests and those of the Fund and its shareholders. The subject of conflicts of interest is documented in the Prospectus and the Management Company's policy on conflicts of interest is available for inspection on the website: https://am.jpmorgan.com/content/dam/jpm-am-aem/emea/lu/en/communications/lux-communication/conflicts-of-interest-ce-en.pdf

The Board can take independent professional advice if necessary and at the Fund's expense.

## **Board Composition**

The Board is chaired by Mr Murphy and currently consists of two Independent Non-Executive Directors and one Connected Non-Executive Director. The Board defines a Connected Non-Executive Director as someone who is employed by JPMorgan Chase & Co. or any of its affiliates but who is not directly involved in the primary business of the Fund which in this case is investment management and an Independent Non-Executive Director as someone who is free of any business, family or other relationship with the Fund or JPMorgan Chase & Co. or any of its affiliates.

In appointing a Director the Board takes into account the relative mix and composition of the Board, which as a whole has a breadth of investment knowledge, financial skills, as well as other experience relevant to the Fund's business.

The Board does not limit the number of years of Directors' service and it does take into account the nature and requirements of the fund industry and of the Fund's business when appointing Directors. The terms of each Director's appointment are set out in a letter of appointment.

#### Induction and Training

All new Directors will receive an induction incorporating relevant information regarding the Fund and their duties and responsibilities as a Director. In addition, the Board takes active steps to keep up to date with developments relevant to the Fund and have ensured that a formal training programme is in place.

#### **Board Evaluation**

The Board carries out an annual review of its performance, which is formally documented every other year.

#### **Board Remuneration**

The Board believes that the remuneration of its members should reflect the responsibilities and experience of the Board as a whole and be fair and appropriate given the size, complexity and investment objectives of the Fund. The remuneration is reviewed on an annual basis. The Chairman is paid EUR 45,000 and the other Directors EUR 40,000 per annum. The Connected Non-Executive Director has agreed to waive his remuneration. No element of the remuneration paid by the Fund to the Directors is performance related.

## Board Meetings and Committees

The Board meets quarterly but if necessary additional meetings will be arranged. Given the scope and nature of the business of the Fund, the Board does not currently consider it necessary to have a formal Audit or Remuneration Committee or indeed any other standing committees. However, this is kept under review. All Board related matters are therefore currently approved by the Board or, where there are specific matters that need further consideration, a Sub-Committee of the Board could be formed for this specific purpose. Such circumstances could be where the Board requests some amendments to the Prospectus and where it is not appropriate to wait till the next quarterly Board meeting for this to be approved. These Sub-Committee meetings are usually formed of a minimum of two Directors.

There were nine Board meetings held during the year. Four of these were quarterly Board meetings where, amongst other matters, the agenda included those items highlighted under the section above called 'Role and Responsibility of the Board of Directors.' The remainder were ad hoc Board meetings.

#### Internal Contro

Investment management and all administrative services are provided by the Management Company or its delegates and custody of assets is provided by Brown Brothers Harriman Trustee Services (Ireland) Limited. The Board's system of internal control therefore mainly comprises monitoring the services provided by the Management Company and the Depositary, including the operational and compliance controls established by them to meet the Fund's obligations to shareholders as set out in the Prospectus, Instrument of Incorporation as well as all relevant regulations. The Management Company formally

Board of Directors' Report (continued)

For the year ended 31 December 2022

reports to the Board on a quarterly basis on the various activities it is responsible for and in addition shall inform the Board without delay of any material administrative or accounting matters.

Corporate Governance and Irish Funds Industry Association Code of Conduct

The Board is responsible for ensuring that a high level of corporate governance is met and considers that the Fund has complied with the best practices in the Irish funds industry and the Listing Rules of the Euronext Dublin, London Stock Exchange, Borsa Italiana, Deutsche Borse, the Six Swiss Exchange, Mexican Stock Exchange (BMV) and the Cboe Europe, where applicable.

In particular the Board has adopted the Irish Funds Industry Association Code of Conduct (the "Code") which sets provisions on good governance in the following areas:

- 1. Composition of the Board
- 2. Chairperson
- 3. Independent Directors
- 4. Role of the Board
- 5. Appointments
- 6. Meetings
- 7. Reserved Powers
- 8. Compliance
- 9. Delegates
- 10. Risk Management, Audit, Control & Compliance

The Board considers that the Fund has been in compliance with the principles in all material aspects throughout the financial year ended 31 December 2022. The Board will undertake an annual review of ongoing compliance with the Code.

The Code can be obtained from the Irish Funds website at https://www.irishfunds.ie/regulatory-technical/corporate-governance.

#### Proxy Voting Policy

The Board delegates responsibility for proxy voting to the Management Company. The Management Company manages the voting rights of the shares entrusted in a prudent and diligent manner, based exclusively on the reasonable judgement of what will best serve the financial interests of clients. So far as is practicable, the Management Company will vote at all of the meetings called by companies in which they are invested.

A copy of the J.P. Morgan Asset Management Global Proxy Voting Policy is available from the Fund's registered office upon request or on the website: https://am.jpmorgan.com/content/dam/jpm-am-aem/global/en/institutional/communications/lux-communication/corporate-governance-principles-an d-voting-guidelines.pdf

#### **Directors and Officers Indemnity Insurance**

The Fund's Instrument of Incorporation indemnifies the Directors against expenses reasonably incurred in connection with any claim against them arising in the course of their duties or responsibilities as long as they have not acted fraudulently or dishonestly. To protect shareholders against any such claim, the Board has taken out Directors and Officers Indemnity Insurance which indemnifies the Directors against certain liabilities arising in the course of their duties and responsibilities but does not cover against any negligent, fraudulent or dishonest actions on their part.

## Review of Performance and Fund Business

A review of the Fund's performance and activities for the year ended 31 December 2022 is included in the Investment Manager's Report.

#### Risk Management Objectives and Policies

The principal risks faced by the Fund are the investment risks associated with the portfolio of investments of each of the Sub-Funds and the operational risks associated with their management and administration.

The main risks of the Sub-Funds and the policies and procedures to manage financial risks are outlined in Note 10.

## Directors' Interests in Shares of the Fund

No Director, nor the Company Secretary, had any beneficial interest in the shares of the Fund during the year.

Other than as disclosed in Note 12 to the financial statements, there were no contracts or agreements of any significance in relation to the business of the Fund in which the Directors had any interest, as defined in the Act, at any time during the year.

## Transactions with Connected Persons

The UCITS Regulations require that any transaction carried out with the Fund by a manager or depositary to the UCITS, the delegates or sub-delegates of the manager or depositary, and any associated or group companies of such a manager, depositary, delegate or sub-delegate ("connected persons") must be carried out as if negotiated at arm's length. Transactions must be in the best interests of the shareholders.

The Directors are satisfied that there are arrangements (evidenced by written procedures) in place, to ensure that the obligations set out in Regulation 41(1) of the Central Bank UCITS Regulations are applied to all transactions with connected persons, and are satisfied that transactions with connected parties entered into during the year complied with the obligations set out in Regulation 41(1) of the Central Bank UCITS Regulations.

The connected persons are the Management Company and the Investment Manager; the Administrator and the Depositary. The relevant fees charged by these connected persons are detailed in Note 12.

#### **Key Performance Indicators**

The key performance indicators monitored for each Sub-Fund include the performance of the Sub-Funds and compliance with investment restrictions and risk limits. The performance of the Sub-Funds is reviewed in the Investment Manager's Reports on pages 6 to 10.

#### Distributions

All distributions declared for the Sub-Funds during the year are disclosed in Note 13.

#### **Employees**

The Fund had no employees during the year ended 31 December 2022.

Board of Directors' Report (continued) For the year ended 31 December 2022

## **Future Developments**

The Fund will continue to act as an investment vehicle as set out in the Prospectus.

## **Independent Auditor**

PricewaterhouseCoopers, Chartered Accountants and Registered Auditors, were appointed in accordance with the ICAV Act and have expressed their willingness to continue in office.

#### **Annual General Meeting**

The Board have exercised their discretion and dispensed with annual general meetings in accordance with the Act and the Fund's Instrument of Incorporation.

## **Privacy Policy**

The Management Company complies with a privacy policy that has been issued by J.P. Morgan Asset Management which can be accessed at www.jpmorgan.com/emea-privacy-policy. This policy was updated to comply with the General Data Protection Regulation.

## Environmental Social Governance ("ESG")

In accordance with Article 11(1) of Regulation (EU) 2019/2088, for financial products promoting environmental or social characteristics and objectives, details of these are shown in Appendix 6.

## Significant events

As at the year end, the Fund's net assets amounted to USD 10.4 billion.

Please refer to Notes 19 and 20 and to Appendix 5 for details of the significant events during the year and after the year end.

On behalf of the Board

Lorcan Murphy Director

Date: 20 April 2023

Bronwyn Wright

Director

Date: 20 April 2023

Investment Manager's Report For the year ended 31 December 2022

## JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF JPMorgan ETFs (Ireland) ICAV - Global Research Enhanced Index Equity (ESG) UCITS ETF

After three consecutive years of strong positive returns, 2022 turned out to be a challenging one for global equities. Economic implications of the Russian invasion of Ukraine, elevated inflation, monetary policy tightening, supply chain disruptions and recessionary fears led to increased volatility and negatively impacted investor sentiment. However, the final quarter of the year brought in some relief.

Expectations for the path of monetary policy has seen a major shift with central banks turning more hawkish as they continue to face challenges in bringing inflation under control. The US Federal Reserve (Fed) increased rates at its fastest pace since the early '80's and the Federal funds rate target range is now at 4.25% - 4.50%, having started the year at 0% - 0.25%. While the European Central Bank also lifted rates swiftly from negative territory and the Bank of England delivered nine consecutive interest rates hike, resulting in a 14-year high of 3.50%. Currencies, as an extension of interest rates, were also volatile as the US dollar rose materially given the Fed's leadership in the monetary tightening, a key challenge for markets during the year.

Against this backdrop, the overall economic situation changed materially through the year, fuelling worries about a possible recession. The US economy showed signs of softening as elevated inflation, weaker demand and higher borrowing costs continued to impact activity levels. Weak demand conditions were broad-based, though manufacturing firms saw a steeper decrease in new orders compared to their services sector counterparts based on the December month S&P Global Flash US Purchasing Managers' Index (PMI) figures. Additionally, existing home sales fell for the 10th straight month in November as the housing market was squeezed by higher mortgage rates.

JPMorgan ETFs (Ireland) ICAV - Beta Builders US Equity UCITS ETF
JPMorgan ETFs (Ireland) ICAV - Beta Builders US Small Cap Equity UCITS ETF
JPMorgan ETFs (Ireland) ICAV - US Research Enhanced Index Equity (ESG) UCITS ETF

The S&P 500 Index had its worst year since 2008, returning -18.11% for 2022. The communication services and consumer discretionary sector were the worst performing sectors during the year, returning -39.89% and -37.03% respectively. The energy and utilities sector were the sole positive performers, returning 65.72% and 1.47%, respectively.

Developed markets equity experienced their worst first-half performance in more than two decades. U.S. companies faced rising interest rates, a contraction in manufacturing and weaker consumer sentiment. Earnings forecasts for 2023 were sharply reduced toward the end of the year amid increasing concerns about the potential for an economic recession.

The S&P 500 Index outperformed the Russell 2000 Index, which returned -20.43%, and the Russell 3000 Value Index returned -7.99%, while the Russell 3000 Growth Index returned -28.97%.

## JPMorgan ETFs (Ireland) ICAV - Europe Research Enhanced Index Equity (ESG) UCITS ETF JPMorgan ETFs (Ireland) ICAV - Eurozone Research Enhanced Index Equity (ESG) UCITS ETF

Europe remains in the eye of the storm, where even after ten months of the war in Ukraine there are no signs of a ceasefire. Inflationary pressures and the resultant squeeze on real incomes continued to moderate demand and the seasonally adjusted S&P Global Eurozone Flash PMI® Composite Output Index fell below the crucial 50.0 mark, indicating a contraction. Higher energy prices are getting more and more reflected in European production prices and Eurozone inflation continues to remain at elevated levels.

## JPMorgan ETFs (Ireland) ICAV - UK Equity Core UCITS ETF

U.K. equities remained broadly flat for 2022, one of the best performing regions during the year. This was largely due to the composition of the U.K. market, as investors found more attractive valuations compared with other regions. Meanwhile, the Bank of England continued to tighten monetary policy as the war in Ukraine drove energy prices higher and led to record high inflationary pressures and a drop in consumer confidence. Spiralling food and energy prices continued to intensify the squeeze on households. Consequently, consumer confidence fell to an all-time low in September and the PMI business survey is in contractionary territory.

## JPMorgan ETFs (Ireland) ICAV - Japan Research Enhanced Index Equity (ESG) UCITS ETF

Japanese equity markets recorded negative returns in 2022, following three consecutive positive years. During 2022, the TOPIX declined -2.9% in local currency terms. In December, the Bank of Japan unveiled plans to increase the upper limit on the 10-year Japanese government bond, which impacted the domestic equity market toward the end of the year. During 2022, the Japanese yen declined against the U.S. dollar, at one point reaching a 32-year low of 150 yen to dollar. Sectors that enjoyed gains during the year included the mining, banks and marine transportation sectors, while the electric appliances, services and precision instruments sectors were leading decliners. The rise in U.S. interest rates drove investors to buy up financial sector stocks and other sectors that had attractive valuations. At the same time, the sell-off of stocks in high-growth sectors, including semiconductors and software stocks, resulted in substantial negative returns for quality factors.

## JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF

Emerging markets equity ended the year down 20% in USD terms impacted by Russia's invasion of Ukraine, higher interest rates, a strong U.S. dollar, and China's zero-covid policies and its property sector weakness. The asset class lagged behind developed markets equity, albeit marginally. After falling for three consecutive quarters, emerging markets showed signs of a recovery in the fourth quarter, climbing nearly 10%, as China lifted its strict pandemic policies and provided support for the property sector. For the full year, Eastern Europe was the worst-performing region, mostly due to declines in Russia, and to a lesser extent also in Hungary and Poland. In Asia, equities in South Korea, Taiwan and China all slumped, while higher commodity prices provided support for Latin American equities led by Chile, Peru and Brazil.

## JPMorgan ETFs (Ireland) ICAV - China A Research Enhanced Index Equity (ESG) UCITS ETF

China's equity markets slumped for most of 2022, amid the nation's strict pandemic lock-downs, inflationary pressures, a tumbling property market, a strong U.S. dollar, rising interest rates and the increased potential for an economic recession in some developed markets. The fourth quarter of 2022 saw a marked shift in the economic fundamentals for China, which bolstered the equity market. China's central bank and its financial regulator unveiled credit support measures targeting the real estate sector and the Chinese government rescinded pandemic containment policies in the final months of 2022.

## JPMorgan ETFs (Ireland) ICAV - AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF

Asian Pacific equities largely fell in 2022. However, the markets rallied in the fourth quarter, boosted, first by a set of Chinese government credit support measures for the real estate market and then by a rapid re-opening following China's decision to lift strict anti-pandemic policies.

Investment Manager's Report (continued) For the year ended 31 December 2022

## JPMorgan ETFs (Ireland) ICAV - Climate Change Solutions UCITS ETF

The names aligned to the theme of Climate Change Solutions experienced diverging fortunes over the first and second halves of the year. Russia's invasion of Ukraine and the ongoing conflict there caused a sharp tightening of demand for oil and natural gas and saw the energy sector outperform meaningfully. This was especially detrimental to names aligned to the theme on a relative return basis. During this first half of the year many names exposed to materials and farming products performed especially well.

The second half of the year and in particular the final quarter bought relief to our investment universe as economic data suggested inflation had peaked in the US prompting speculation that the overall pace of interest rate hikes may moderate. Companies aligned to renewable energy, electrification and automation performed especially well in the second half of the year.

Despite a volatile year, we expect to see capital being deployed by companies in the solutions space continue to grow as technology becomes more widely adopted and the pace of innovation increases. We expect the overall cost of many of these solutions to diminish as the economies of scale are felt more widely, leading to more and more adoption around the world.

#### JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity UCITS ETF

From a relative performance perspective, Security selection in Health Care and Communication sectors contributed to performance. Overweight positions in Cigna, Eli Lilly & Co, Merck & Co and AbbVie within the Health Care sector added value as the stocks rallied over the year. An underweight position in Netflix within the Communications sector helped performance as the stock detracted. At an individual security level, an overweight position in ConocoPhillips contributed to performance as the stock rose over the period. Security selection in the Information Materials and Energy sectors were the main detractors to performance. Underweight positions in Exxon Mobil and Chevron within the Energy sector detracted from performance as the stocks rallied in 2022.

This sub-fund seeks to achieve a reduction in carbon intensity without relying on exclusions or sector deviations while focusing on individual security selection by overweighting winners of the carbon transition and avoiding the companies that face greater risk. The portfolio takes a comprehensive approach to transition readiness that considers both risks and opportunities by evaluating companies based on how well they manage Greenhouse gas emissions, Resources and Climate related risks. This results in a meaningful reduction in carbon intensity relative to the MSCI World Index.

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JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond UCITS ETF JPMorgan ETFs (Ireland) ICAV - BetaBuilders UK Gilt 1-5 yr UCITS ETF JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-1 yr UCITS ETF JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-3 Months UCITS ETF JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 1-3 yr UCITS ETF JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond UCITS ETF
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In 2022, with the Fed late to remove monetary policy accommodation, labour markets tightening, supply chain constraints lingering, and Russia's war on Ukraine sparking an energy crisis, headline and core inflation accelerated to four-decade highs. This forced the Fed to tighten aggressively, delivering 425bp of hikes in 2022, outpacing every tightening cycle over the last 30 years. Against this backdrop, Treasury yields across the curve rose to their highest levels in more than 12 years, though spread products were reasonably well behaved, as the economy has been surprisingly resilient to tightening financial conditions as labour markets remained fairly tight and job growth remained buoyant. With aggressively tight monetary policy in the major economies, inflation has started to moderate, however, remains elevated. Going into the new year, investors are paying close attention to the labour market trajectory as it will determine the course of monetary policy over the year. While there are headwinds to growth outlook due to lagged impact from monetary policy tightening and recession remains our base case coming into the year, falling energy prices in Europe and reopening in China are offering investors some reasons for optimism.

In terms of central bank actions, the European Central Bank (ECB) announced rate hikes of 75 basis points (bps) each in October and November, while the Federal Reserve (Fed) hiked rates by 75bps in November and 50bps in December. The statement language released by the Fed was almost identical to the November statement, suggesting the committee continues to lean hawkish. In the UK, a combination of high inflation and solid labour markets continued to support hawkish action from the central bank.

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JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF JPMorgan ETFs (Ireland) ICAV - RMB Ultra-Short Income UCITS ETF JPMorgan ETFs (Ireland) ICAV - USD Ultra-Short Income UCITS ETF
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The EUR, USD and GBP ultra-short income ETFs each underperformed its benchmark in 2022. The rise in short-dated yields during the year, which ultimately meant that bonds with longer maturities fell sharply. The 2-year EUR and GBP government bond yields rose by about 300 basis points during the year, while the 2-year USD Treasury bond yields rose by about 350 basis points. The Sub-Funds' strategy of holding a short-duration position for most of the year helped to minimise volatility.

Meanwhile, China's zero-covid policies, property sector weakness and declining exports pushed its economy to the brink of recession. Slower economic growth drove yields lower on bonds and money market securities and China's currency depreciated sharply against the U.S. dollar. These factors, combined with rising U.S. interest rates and higher U.S. Treasury bond yields prompted investors to pivot away from Chinese bonds. The RMB ultra-short income ETF outperformed its benchmark during the period from launch in March 2022 to the end of the year.

We expect cheaper valuations and more stable investor expectations about U.S. Federal Reserve monetary policy should allow ultra-short income ETFs to deliver returns for 2023.

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JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF JPMorgan ETFs (Ireland) ICAV - USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF
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Geopolitical risks, inflation and central banking remained at the forefront of investors' minds over the year. However, there were some reasons for optimism. Global supply chain constraints continued to ease, and European governments took further steps to dampen the impact of the energy crisis and mitigate the risks of a harsh recession. Flash Purchasing Managers' Indices (PMIs) for October confirmed an economic slowdown in many developed markets. While recession risks were clearly rising, we continued to see factors that may help to mitigate the depth of any downturn. In the US, labour markets remained strong and the housing market appears to pose far fewer systemic risks compared to the problems that led to the global financial crisis. Europe announced new plans to tackle the energy crisis that included a price cap and a common purchases system. These measures, together with new fiscal stimulus support of €40bn, is expected to help both households and businesses. With storage tanks full and the weather proving unseasonably warm, gas prices continued to move lower.

In December inflation concerns remained, though it seemed the approach of central banks was softening, and a slower pace of rate hikes could be expected in early 2023. US Inflation came in below expectations for the second consecutive month and reinforced the turning tide on inflation as nearly every major

Investment Manager's Report (continued) For the year ended 31 December 2022

category showed easing price pressures. In Europe, inflation data continues to show signs of softening, however the ECB remain clear that whilst the pace of rate hikes could slow, their intention is to continue tightening to quash inflation.

#### JPMorgan ETFs (Ireland) ICAV - Global High Yield Corporate Bond Multi-Factor UCITS ETF

The past year was one of the worst for high yield bonds, with both the U.S. high yield (USHY) and European high yield (EHY) markets falling by more than 11%. The year began with a 4.3% USHY market yield and a 2.9% EHY market yield, before quickly climbing and ultimately more than doubling through the year. However, high yield market fundamentals remained solid by most measures, as companies had paid down debt and refinanced when interest rates were low. Additionally, the default rate remained muted and technicals turned from balanced to supportive during the year. New issuance was down significantly in 2022, following record issuance in 2020 and 2021. Overall, high yield markets outperformed higher quality fixed income and equities.

The high yield asset class entered 2023 from a position of strength. Bonds rated BB account for about 50% of the USHY market and more than 66% of the EHY market, and default rates are below 1% for both. The technical backdrop is positive with muted new issuance and tight supply. The USHY market is pricing in a default rate of about 4%, which is at the high end of our base case estimates. USHY yields are greater than their 15-year average, and both yields and yield spreads offer an attractive entry point for investors. Within EHY, we do not expect financial conditions to ease, given the effects of inflation on consumer savings and corporate earnings and borrowing costs that remain substantially higher than current coupons. We see the European real estate sector as the most exposed to refinancing and default risk.

## JPMorgan ETFs (Ireland) ICAV - USD Emerging Markets Sovereign Bond UCITS ETF

As a smaller asset class tracking a large geographical area, emerging markets bond returns are sensitive to external developments, especially when those events elevate investors' risk perception.

Russia's invasion of Ukraine in late February 2022, led to multilateral sanctions that froze Russian assets around the world. European energy prices rose rapidly amid broad fears of a supply shock. The global grain market briefly went into backwardation as countries scrambled for physical grain supplies, which put further pressure on emerging markets.

During the year, emerging markets central bankers began to reap the benefit of raising rates more aggressively in the early phases of the inflationary cycle, finding themselves ahead of developed market central banks. The result was an early cooling of inflation, balanced by a stabilising emerging markets economic growth rate. Generally, the first three quarters of the year were dominated by technical-driven selling in emerging markets and the final quarter saw a gradual increase in investor support for asset prices amid resilience in emerging market economies.

China's moves to rescind pandemic restrictions and re-open its economy also contributed to the improvement in investor sentiment toward the end of the year.

During the year, the portfolio shifted from a defensive posture to a more moderate stance toward risk via longer duration exposure and an emerging markets currencies sleeve that included active positions in the Thai baht, Czech Republic and Chilean interest rates.

We continue to believe emerging markets corporate fundamentals are strong, though the challenges of slowing global growth remain are beginning to be felt more meaningfully. Looking ahead, we expect to see differentiation in emerging markets corporate issuers in 2023, as companies with strong balance sheets should be able to continue to access capital, while weaker issuers may struggle. That said, we believe valuations in emerging markets corporate bonds continues to provide investment opportunities. Overall, the portfolio maintains a shorter duration than its benchmark, balanced against a foreign exchange position beta that is slightly long of the benchmark.

## JPMorgan ETFs (Ireland) ICAV - BetaBuilders China Aggregate Bond UCITS ETF

2022 was a challenging year for China's economy and bond market owing to a combination of domestic and global factors. Stringent Covid-19 containment measures (so-called zero-Covid policy) weighed heavily on growth, impacting practically all sectors of China's economy.

In response, Chinese authorities announced multiple fiscal and monetary policy measures to stimulate growth and in November started relaxing its zero-Covid policy, including easing travel restrictions and quarantine rules. In addition, the government presented a comprehensive package to support the real estate sector in order to stimulate investment and housing construction activity. This helped to stabilise economic activity in the fourth quarter of 2022. However, monetary tightening in the US coupled with monetary easing in China resulted in a weaker CNY exchange rate, which adversely impacted local currency bond market returns in USD in 2022.

\*Please note that JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF was closed in the fourth quarter, and JPMorgan ETFs (Ireland) ICAV - Carbon Transition China Equity (CTB) UCITS ETF was launched in December, so these have been excluded from the commentary.

Investment Manager's Report (continued) For the year ended 31 December 2022

## Sub-Fund tracking errors

Standalone / Sub-Fund name	Standalone / Sub-Fund number	Launch date	Index tracking	Expected tracking errors	Annual tracking error %	Comments
JPMorgan ETFs (Ireland) ICAV - BetaBuilders China Aggregate Bond UCITS ETF	a C458681	17/03/2022	Yes	up to 2.00%	0.00%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	C175317	15/02/2018	Yes	up to 1.00%	0.04%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond UCITS ETF	C182003	25/04/2019	Yes	up to 1.00%	0.11%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - BetaBuilders UK Gilt 1-5 yr UCITS ETF	C178895	06/06/2018	Yes	up to 1.00%	0.03%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF	C187895	03/04/2019	Yes	up to 1.00%	0.03%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	C190324	09/07/2019	Yes	up to 1.00%	0.02%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-3 Months UCITS ETF	C443859	17/02/2021	Yes	up to 1.00%	0.03%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 1-3 yr UCITS ETF	C178896	06/06/2018	Yes	up to 1.00%	0.05%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond UCITS ETF	C182016	25/04/2019	Yes	up to 1.00%	0.13%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF	C430452	04/11/2020	Yes	up to 1.00%	0.12%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF	C190300	09/07/2019	Yes	up to 1.00%	0.09%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - Global High Yield Corporate Bond Multi-Factor UCITS ETF	C193738	04/02/2020	Yes	up to 2.00%	0.72%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels
JPMorgan ETFs (Ireland) ICAV - USD Emerging Markets Sovereign Bond UCITS ETF	C174035	15/02/2018	Yes	up to 2.00%	0.88%	The performance of the Sub-Fund has been consistently in line with that of the index and within our tolerance levels

JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Small Cap Equity UCITS ETF and JPMorgan ETFs (Ireland) ICAV - Carbon Transition China Equity (CTB) UCITS ETF are also Index Tracking Sub-Funds, they were launched on 9 August 2022 and 6 December 2022, respectively. As at 31 December 2022, the above Sub-Funds were not active for more than 6 months and therefore there is no sufficient meaningful data available to calculate for the period's tracking error %. JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF was liquidated on 23 November 2022.

## **Sub-Fund Performance**

Share Class	Currency	Launch date	1 Year	3 Years	Since inception
JPM AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF - USD (acc)	USD	15/02/2022	-	-	-16.23%
JPM AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF - USD (dist)	USD	15/02/2022	=	=	-16.59%
JPM BetaBuilders China Aggregate Bond UCITS ETF - EUR Hedged (acc)	EUR	05/05/2022	=	=	-0.20%
JPM BetaBuilders China Aggregate Bond UCITS ETF - USD (acc)	USD	17/03/2022	=	=	-6.30%
JPM BetaBuilders China Aggregate Bond UCITS ETF - USD (dist)	USD	17/03/2022	=	=	-7.02%
JPM BetaBuilders China Aggregate Bond UCITS ETF - USD Hedged (dist)	USD	05/05/2022	-	-	1.10%
JPM BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF - EUR (acc)	EUR	15/02/2018	-5.01%	-5.82%	-5.62%
JPM BetaBuilders EUR Govt Bond UCITS ETF - EUR (acc)	EUR	25/04/2019	-18.67%	-17.71%	-13.97%
JPM BetaBuilders UK Gilt 1-5 yr UCITS ETF - GBP (dist)	GBP	06/06/2018	-5.81%	-5.91%	-4.04%
JPM BetaBuilders US Equity UCITS ETF - USD (acc)	USD	03/04/2019	-19.61%	22.62%	39.40%
JPM BetaBuilders US Equity UCITS ETF - USD (dist)	USD	03/04/2019	-19.61%	22.62%	39.40%
JPM BetaBuilders US Small Cap Equity UCITS ETF - USD (acc)	USD	09/08/2022	=	=	-6.31%
JPM BetaBuilders US Small Cap Equity UCITS ETF - USD (dist)	USD	09/08/2022	=	=	-6.32%
JPM BetaBuilders US Treasury Bond O-1 yr UCITS ETF - MXN Hedged (acc)	MXN	19/11/2019	7.75%	19.39%	20.29%
JPM BetaBuilders US Treasury Bond 0-1 yr UCITS ETF - USD (acc)	USD	09/07/2019	1.04%	1.77%	2.72%
JPM BetaBuilders US Treasury Bond O-3 Months UCITS ETF - MXN Hedged (acc)	MXN	17/02/2021	8.11%	=	12.57%
JPM BetaBuilders US Treasury Bond O-3 Months UCITS ETF - USD (acc)	USD	17/02/2021	1.41%	=	1.39%
JPM BetaBuilders US Treasury Bond 1-3 yr UCITS ETF - MXN Hedged (acc)	MXN	17/07/2020	2.49%	=	8.88%
JPM BetaBuilders US Treasury Bond 1-3 yr UCITS ETF - USD (acc)	USD	06/06/2018	-3.86%	-1.48%	3.75%
JPM BetaBuilders US Treasury Bond UCITS ETF - GBP Hedged (acc)	GBP	16/05/2019	-13.84%	-9.68%	-6.65%
JPM BetaBuilders US Treasury Bond UCITS ETF - USD (acc)	USD	25/04/2019	-13.16%	-8.25%	-3.38%
JPM Carbon Transition China Equity (CTB) UCITS ETF - USD (acc)	USD	12/06/2022	=	=	-0.05%
JPM Carbon Transition Global Equity (CTB) UCITS ETF - EUR Hedged (acc)	EUR	20/01/2022	=	=	-14.91%
JPM Carbon Transition Global Equity (CTB) UCITS ETF - USD (acc)	USD	04/11/2020	-18.66%	=	11.55%
JPM China A Research Enhanced Index Equity (ESG) UCITS ETF - USD (acc)	USD	15/02/2022	-	-	-19.50%
JPM China A Research Enhanced Index Equity (ESG) UCITS ETF - USD (dist)	USD	15/02/2022	-	-	-20.22%
JPM Climate Change Solutions UCITS ETF - USD (acc)	USD	14/06/2022	=	=	9.27%
JPM EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF - EUR (acc)	EUR	06/12/2018	-8.04%	-7.62%	-5.27%
JPM EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF - EUR (acc)	EUR	06/12/2018	-13.63%	-12.74%	-7.29%
JPM EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF - GBP Hedged (acc)	GBP	09/11/2021	-8.13%	-	-10.08%
JPM EUR Ultra-Short Income UCITS ETF - EUR (acc)	EUR	06/06/2018	-0.48%	-1.05%	-1.24%
JPM Europe Research Enhanced Index Equity (ESG) UCITS ETF - EUR (acc)	EUR	10/10/2018	-9.40%	11.78%	35.24%
JPM Europe Research Enhanced Index Equity (ESG) UCITS ETF - EUR (dist)	EUR	15/09/2021	-9.40%	-	-3.76%

Investment Manager's Report (continued) For the year ended 31 December 2022

## **Sub-Fund Performance (continued)**

Share Class	Currency	Launch date	1 Year	3 Years	Since inception
JPM Eurozone Research Enhanced Index Equity (ESG) UCITS ETF - EUR (acc)	EUR	26/04/2022	-	-	0.80%
JPM Eurozone Research Enhanced Index Equity (ESG) UCITS ETF - EUR (dist)	EUR	26/04/2022	-	-	-0.89%
JPM GBP Ultra-Short Income UCITS ETF - GBP (acc)	GBP	03/04/2019	0.48%	1.54%	2.41%
JPM GBP Ultra-Short Income UCITS ETF - GBP (dist)	GBP	06/06/2018	0.48%	1.54%	3.13%
JPM Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF - USD (acc)	USD	06/12/2018	-21.56%	-8.48%	9.53%
JPM Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF - USD (dist)	USD	15/09/2021	-21.56%	-	-23.64%
JPM Global Equity Multi-Factor UCITS ETF - USD (acc)	USD	09/07/2019	-10.28%	16.94%	24.54%
JPM Global High Yield Corporate Bond Multi-Factor UCITS ETF - CHF Hedged (acc)	CHF	17/05/2022	=	=	-2.67%
JPM Global High Yield Corporate Bond Multi-Factor UCITS ETF - EUR Hedged (dist)	EUR	17/05/2022	-	-	-3.27%
JPM Global High Yield Corporate Bond Multi-Factor UCITS ETF - GBP Hedged (dist)	GBP	24/04/2020	-10.00%	-	7.68%
JPM Global High Yield Corporate Bond Multi-Factor UCITS ETF - MXN Hedged (acc)	MXN	03/06/2020	-3.10%	=	17.14%
JPM Global High Yield Corporate Bond Multi-Factor UCITS ETF - USD (acc)	USD	04/02/2020	-10.12%	-	-3.23%
JPM Global High Yield Corporate Bond Multi-Factor UCITS ETF - USD (dist)	USD	26/10/2022	-	-	4.32%
JPM Global High Yield Corporate Bond Multi-Factor UCITS ETF - USD Hedged (acc)	USD	13/05/2020	-8.79%	-	8.35%
JPM Global Research Enhanced Index Equity (ESG) UCITS ETF - EUR Hedged (acc)	EUR	08/12/2021	-17.43%	-	-16.57%
JPM Global Research Enhanced Index Equity (ESG) UCITS ETF - GBP Hedged (acc)	GBP	08/12/2021	-16.62%	-	-15.76%
JPM Global Research Enhanced Index Equity (ESG) UCITS ETF - USD (acc)	USD	10/10/2018	-17.51%	19.52%	39.64%
JPM Global Research Enhanced Index Equity (ESG) UCITS ETF - USD (dist)	USD	15/09/2021	-17.51%	-	-13.48%
JPM Japan Research Enhanced Index Equity (ESG) UCITS ETF - CHF Hedged (acc)	CHF	09/08/2022	-	-	-2.32%
JPM Japan Research Enhanced Index Equity (ESG) UCITS ETF - EUR Hedged (acc)	EUR	17/05/2022	-	-	1.28%
JPM Japan Research Enhanced Index Equity (ESG) UCITS ETF - JPY (acc)	JPY	07/10/2022	-	-	-0.82%
JPM Japan Research Enhanced Index Equity (ESG) UCITS ETF - USD (acc)	USD	29/03/2022	-	-	-11.08%
JPM Japan Research Enhanced Index Equity (ESG) UCITS ETF - USD (dist)	USD	29/03/2022	-	-	-12.31%
JPM RMB Ultra-Short Income UCITS ETF - USD (acc)	USD	01/03/2022	-	-	-7.43%
JPM RMB Ultra-Short Income UCITS ETF - USD (dist)	USD	01/03/2022	-	-	-7.12%
JPM UK Equity Core UCITS ETF - GBP (acc)	GBP	14/06/2022	-	-	4.78%
JPM UK Equity Core UCITS ETF - GBP (dist)	GBP	14/06/2022	-	-	4.66%
JPM US Equity Multi-Factor UCITS ETF - USD (acc)*	USD	09/07/2019	-	-	-
JPM US Research Enhanced Index Equity (ESG) UCITS ETF - CHF Hedged (acc)	CHF	26/04/2022	-	-	-9.70%
JPM US Research Enhanced Index Equity (ESG) UCITS ETF - EUR Hedged (acc)	EUR	29/03/2022	-	-	-18.80%
JPM US Research Enhanced Index Equity (ESG) UCITS ETF - USD (acc)	USD	10/10/2018	-18.76%	26.60%	50.02%
JPM US Research Enhanced Index Equity (ESG) UCITS ETF - USD (dist)	USD	16/12/2019	-18.76%	26.59%	28.31%
JPM USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF - EUR Hedged (acc)	EUR	09/11/2021	-13.09%	-	-12.39%
JPM USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF - GBP Hedged (acc)	GBP	20/01/2022	-	-	-14.63%
JPM USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF - USD (acc)	USD	06/12/2018	-16.01%	-9.46%	4.89%
JPM USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF - USD (dist)	USD	09/09/2020	-16.01%	-	-15.28%
JPM USD Emerging Markets Sovereign Bond UCITS ETF - CHF Hedged (acc)	CHF	21/01/2020	-18.25%	-	-19.77%
JPM USD Emerging Markets Sovereign Bond UCITS ETF - EUR Hedged (acc)	EUR	10/10/2018	-18.06%	-18.44%	-6.70%
JPM USD Emerging Markets Sovereign Bond UCITS ETF - GBP Hedged (dist)	GBP	03/12/2019	-17.07%	-16.49%	-14.45%
JPM USD Emerging Markets Sovereign Bond UCITS ETF - MXN Hedged (acc)	MXN	03/06/2020	-10.57%	-	3.47%
JPM USD Emerging Markets Sovereign Bond UCITS ETF - USD (acc)	USD	03/12/2019	-15.66%	-13.48%	-11.26%
JPM USD Emerging Markets Sovereign Bond UCITS ETF - USD (dist)	USD	15/02/2018	-15.66%	-13.48%	-0.28%
JPM USD Ultra-Short Income UCITS ETF - USD (acc)	USD	03/04/2019	1.07%	3.49%	5.87%
JPM USD Ultra-Short Income UCITS ETF - USD (dist)	USD	15/02/2018	1.07%	3.50%	9.16%

<sup>\*</sup>Share Class inactive at the end of the year.

Past performance is no indication of current or future performance. The performance data do not take account of the commissions and costs incurred on the issue and redemption of units.

Report of the Depositary to the Shareholders For the year ended 31 December 2022

We have enquired into the conduct of the JPMorgan ETFs (Ireland) ICAV (the "Fund") for the year ended 31 December 2022 in our capacity as Depositary to the Fund.

This report including the opinion has been prepared for and solely for the Shareholders in the Fund, in accordance with Part 5 of the European Communities (Undertakings for Collective Investment in Transferable Securities) Regulations 2011, as amended, ("the UCITS Regulations"), and for no other purpose. We do not, in giving this opinion, accept or assume responsibility for any other purpose or to any other person to whom this report is shown.

#### Responsibilities of the Depositary

Our duties and responsibilities are outlined in Part 5 of the UCITS Regulations. One of those duties is to enquire into the conduct of the Fund in each annual accounting period and report thereon to the Shareholders. Our report shall state whether, in our opinion, the Fund has been managed in that period in accordance with the provisions of the Fund's Instrument of Incorporation of the Fund and the UCITS Regulations. It is the overall responsibility of the Fund to comply with these provisions. If the Fund has not so complied, we as Depositary must state why this is the case and outline the steps which we have taken to rectify the situation.

#### **Basis of Depositary Opinion**

The Depositary conducts such reviews as it, in its reasonable opinion, considers necessary in order to comply with its duties as outlined in Part 5 of the UCITS Regulations and to ensure that, in all material respects, the Fund has been managed (i) in accordance with the limitations imposed on its investment and borrowing powers by the provisions of the Instrument of Incorporation of the Fund and the appropriate regulations and (ii) otherwise in accordance with the Fund constitutional documentation and the appropriate regulations.

#### Opinion

In our opinion, the Fund has been managed during the year, in all material respects:

(i) in accordance with the limitations imposed on the investment and borrowing powers of the Fund by the Instrument of Incorporation of the Fund, the UCITS Regulations and the Central Bank UCITS Regulations, and

(ii) otherwise in accordance with the provisions of the Instrument of Incorporation of the Fund, the UCITS Regulations and the Central Bank UCITS Regulations.

Brown Brothers Harriman Trustee Services (Ireland) Limited, 30 Herbert Street, Dublin 2, Ireland

20 April 2023



## Independent auditors' report to the shareholders of the Sub-Funds of JPMorgan ETFs (Ireland) ICAV

## Report on the audit of the financial statements

#### Opinion

In our opinion, JPMorgan ETFs (Ireland) ICAV's financial statements:

- give a true and fair view of the Sub-Funds' assets, liabilities and financial position as at 31 December 2022 and of their results and cash flows for the year then ended;
- · have been properly prepared in accordance with International Financial Reporting Standards ("IFRSs") as adopted by the European Union; and
- have been properly prepared in accordance with the requirements of the Irish Collective Asset-management Vehicles Act 2015 and the European Communities (Undertakings for Collective Investment in Transferable Securities) Regulations 2011 (as amended).

We have audited the financial statements, included within the Audited Annual Report, which comprise:

- the Statement of Financial Position as at 31 December 2022;
- the Statement of Comprehensive Income for the year then ended;
- · the Statement of Cash Flows for the year then ended;
- · the Statement of Changes in Net Assets Attributable to Holders of Redeemable Participating Shares for the year then ended;
- the Schedule of Investments for each of the Sub-Funds as at 31 December 2022; and
- the notes to the financial statements for each of the Sub-Funds, which include a description of the significant accounting policies.

Our opinion is consistent with our reporting to the Board of Directors.

## Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (Ireland) ("ISAs (Ireland)") and applicable law.

Our responsibilities under ISAs (Ireland) are further described in the Auditors' responsibilities for the audit of the financial statements section of our report. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### Independence

We remained independent of the ICAV in accordance with the ethical requirements that are relevant to our audit of the financial statements in Ireland, which includes IAASA's Ethical Standard as applicable to listed public interest entities, and we have fulfilled our other ethical responsibilities in accordance with these requirements.

To the best of our knowledge and belief, we declare that non-audit services prohibited by IAASA's Ethical Standard were not provided to the ICAV.

We have provided no non-audit services to the ICAV in the period from 1 January 2022 to 31 December 2022.

#### Emphasis of matter - financial statements prepared on a basis other than going concern

In forming our opinion on the financial statements, which is not modified, we draw attention to note 2 to the financial statements which describes the reasons why the financial statements of JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF have been prepared on a basis other than going concern.



#### Our audit approach

#### Overview



#### Materiality

- Overall materiality: 50 basis points (2021: 50 basis points) of Net Assets Value ("NAV") at 31 December 2022 (2021: 31 December 2021) for each of the ICAV's Sub-Funds.
- Performance materiality: 75% of overall materiality.

#### Audit scope

The ICAV is an open-ended investment ICAV with variable capital and engages JPMorgan Asset Management (Europe) S.a.r.l (the "Management Company") to manage certain duties and responsibilities with regards to the day-to-day management of the ICAV. We tailored the scope of our audit taking into account the types of investments within the Sub-Funds, the involvement of the third parties referred to below, the accounting processes and controls, and the industry in which the ICAV operates. We look at each of the Sub-Funds at an individual level.

#### Key audit matters

· Valuation and existence of financial assets and liabilities at fair value through profit or loss.

## The scope of our audit

As part of designing our audit, we determined materiality and assessed the risks of material misstatement in the financial statements. In particular, we looked at where the directors made subjective judgements, for example the selection of pricing sources to value the investment portfolio. As in all of our audits, we also addressed the risk of management override of internal controls, including evaluating whether there was evidence of bias by the directors that represented a risk of material misstatement due to fraud.

## Key audit matters

Key audit matters are those matters that, in the auditors' professional judgement, were of most significance in the audit of the financial statements of the current period and include the most significant assessed risks of material misstatement (whether or not due to fraud) identified by the auditors, including those which had the greatest effect on: the overall audit strategy; the allocation of resources in the audit; and directing the efforts of the engagement team. These matters, and any comments we make on the results of our procedures thereon, were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters. This is not a complete list of all risks identified by our audit.

## Key audit matter

Valuation and existence of financial assets and liabilities at fair value through profit or loss.

See accounting policy 2(c) of the financial statements for further details.

The financial assets and financial liabilities at fair value through profit or loss included in the Statement of Financial Position of each Sub-Fund are held in the Sub-Fund's name at 31 December 2022.

The financial assets and liabilities at fair value through profit or loss included in the Statement of Financial Position of each Sub-Fund are measured at fair value in line with International Financial Reporting Standards as adopted by the European Union as disclosed in Note 2(c) of the financial statements.

This is considered a key audit matter as it represents the principal element of the financial statements.

## How our audit addressed the key audit matter

We obtained independent confirmation from the Depositary and external counterparties (as applicable) of the investment portfolio held as at 31 December 2022, agreeing the amounts held to the accounting records.

For some Forward currency contracts where we did not receive counterparty confirmations, and which have already matured we liquidated these to bank statements to verify that they were in existence as at 31 December 2022.

We tested the valuation of investments by independently agreeing to third party vendor sources where possible. For some short-term investments (commercial paper and certificates of deposit) which we could not price using independent third-party vendors, we corroborated management's price source and we engaged internal experts to perform an independent valuation and compared their results to the portfolio.

For some equity positions where we could not price using independent third-party vendors, we corroborated management's price source.

No material issues were identified from the results of these procedures.



#### How we tailored the audit scope

We tailored the scope of our audit to ensure that we performed enough work to be able to give an opinion on the financial statements as a whole, taking into account the structure of the ICAV, the accounting processes and controls, and the industry in which it operates.

The Board of Directors control the affairs of the ICAV and are responsible for the overall investment policy which is determined by them. The ICAV engages the Management Company to manage certain duties and responsibilities with regards to the day to day management of the ICAV. The Management Company has delegated certain responsibilities to J.P. Morgan Investment Inc and JPMorgan Asset Management (UK) Limited (the 'Investment Managers') and to Brown Brothers Harriman Fund Administration Services (Ireland) Limited (the 'Administrator'). The financial statements, which remain the responsibility of the Board of Directors, are prepared on their behalf by the Administrator. The ICAV has appointed BrownBrothers Harriman Trustee Services (Ireland) Limited (the "Depositary") to act as Depositary of the ICAV's assets. In establishing the overall approach to our audit we assessed the risk of material misstatement at a Sub-Fund level, taking into account the nature, likelihood and potential magnitude of any misstatement. As part of our risk assessment, we considered the ICAV's interaction with the Administrator, and we assessed the control environment in place at the Administrator.

#### Materiality

The scope of our audit was influenced by our application of materiality. We set certain quantitative thresholds for materiality. These, together with qualitative considerations, helped us to determine the scope of our audit and the nature, timing and extent of our audit procedures on the individual financial statement line items and disclosures and in evaluating the effect of misstatements, both individually and in aggregate on the financial statements as a whole.

Based on our professional judgement, we determined materiality for the financial statements of each of the ICAV's Sub-Funds as follows:

Overall materiality and how we determined it	50 basis points (2021: 50 basis points) of Net Assets Value ("NAV") at 31 December 2022 (2021: 31 December 2021) for each of the ICAV's Sub-Funds.
Rationale for benchmark applied	We have applied this benchmark because the main objective of the ICAV is to provide investors with a total return at a sub-fund level, taking account of the capital and income returns.

We use performance materiality to reduce to an appropriately low level the probability that the aggregate of uncorrected and undetected misstatements exceeds overall materiality. Specifically, we use performance materiality in determining the scope of our audit and the nature and extent of our testing of account balances, classes of transactions and disclosures, for example in determining sample sizes. Our performance materiality was 75% of overall materiality.

In determining the performance materiality, we considered a number of factors - the history of misstatements, risk assessment and aggregation risk and the effectiveness of controls - and concluded that an amount at the upper end of our normal range was appropriate.

We agreed with the Board of Directors that we would report to them misstatements identified during our audit above 5 basis points of each sub-fund's NAV, for NAV per share impacting differences (2021: 5 basis points of each sub-fund's NAV, for NAV per share impacting differences) as well as misstatements below that amount that, in our view, warranted reporting for qualitative reasons.



#### Conclusions relating to going concern

With the exception of JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF where a basis of accounting other than going concern has been adopted as set out in the Emphasis of matter - financial statements prepared on a basis other than going concern above, our evaluation of the directors' assessment of the Sub-Funds' ability to continue to adopt the going concern basis of accounting included:

- · Reviewing the liquidity profile of the assets and liabilities, for any significant mismatches, as detailed in note 10 Financial risk management Liquidity risk:
- Agreeing the liquidity terms surrounding the ICAV and Sub-Funds' ability to manage liquidity risk through redemption limits, if necessary, as per note 10 Financial risk management Liquidity risk, to the legal documents;
- Performing subsequent event testing around capital activity to determine whether material redemption requests have been presented to the Sub-Funds; and
- · Discussing management's plans to assess if there is a plan to terminate any of the Sub-Funds.

With the exception of JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF where a basis of accounting other than going concern has been adopted as set out in the Emphasis of matter - financial statements prepared on a basis other than going concern above, based on the work we have performed, we have not identified any material uncertainties relating to events or conditions that, individually or collectively, may cast significant doubt on the Sub-Funds' ability to continue as a going concern for a period of at least twelve months from the date on which the financial statements are authorised for issue.

With the exception of JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF where a basis of accounting other than going concern has been adopted as set out in the Emphasis of matter - financial statements prepared on a basis other than going concern above, in auditing the financial statements, we have concluded that the directors' use of the going concern basis of accounting in the preparation of the financial statements is appropriate.

However, because not all future events or conditions can be predicted, this conclusion is not a guarantee as to the Sub-Funds' ability to continue as a going concern.

Our responsibilities and the responsibilities of the directors with respect to going concern are described in the relevant sections of this report.

## Reporting on other information

The other information comprises all of the information in the Audited Annual Report other than the financial statements and our auditors' report thereon. The directors are responsible for the other information. Our opinion on the financial statements does not cover the other information and, accordingly, we do not express an audit opinion or, except to the extent otherwise explicitly stated in this report, any form of assurance thereon. In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated. If we identify an apparent material inconsistency or material misstatement, we are required to perform procedures to conclude whether there is a material misstatement of the financial statements or a material misstatement of the other information. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report based on these responsibilities.

Based on the responsibilities described above and our work undertaken in the course of the audit, the Irish Collective Asset-management Vehicles Act 2015 requires us to also report the opinion as described below:

Board of Directors' Report

· In our opinion, based on the work undertaken in the course of the audit, the information given in the Board of Directors' Report for the year ended 31 December 2022 is consistent with the financial statements.

## Responsibilities for the financial statements and the audit

Responsibilities of the directors for the financial statements

As explained more fully in the Role and Responsibility of the Board of Directors the directors are responsible for the preparation of the financial statements in accordance with the applicable framework and for being satisfied that they give a true and fair view.

The directors are also responsible for such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the directors are responsible for assessing the Sub-Funds' ability to continue as going concerns, disclosing as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the ICAV or to cease operations, or have no realistic alternative but to do so.



Auditors' responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (Ireland) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

Irregularities, including fraud, are instances of non-compliance with laws and regulations. We design procedures in line with our responsibilities, outlined above, to detect material misstatements in respect of irregularities, including fraud. The extent to which our procedures are capable of detecting irregularities, including fraud, is detailed below.

Based on our understanding of the ICAV and industry, we identified that the principal risks of non-compliance with laws and regulations related to breaches of Irish legislation and Central Bank of Ireland regulations, and we considered the extent to which non-compliance might have a material effect on the financial statements. We also considered those laws and regulations that have a direct impact on the preparation of the financial statements such as the Irish Collective Asset-management Vehicles Act 2015 and the European Communities (Undertakings for Collective Investment in Transferable Securities) Regulations 2011 (as amended). We evaluated management's incentives and opportunities for fraudulent manipulation of the financial statements (including the risk of override of controls), and determined that the principal risks were related to management override of controls.

Audit procedures performed by the engagement team included:

- · Inquiry of management to identify any instances of non-compliance with laws and regulations;
- · Identifying and testing journal entries, where any such journal entries, that met our specific risk based criteria, were identified;
- · Designing audit procedures to incorporate unpredictability;
- · Reviewing relevant minutes of the meetings of the board of directors; and
- · Reviewing financial statement disclosures and agreeing to supporting documentation to assess compliance with applicable laws and regulations.

There are inherent limitations in the audit procedures described above. We are less likely to become aware of instances of non-compliance with laws and regulations that are not closely related to events and transactions reflected in the financial statements. Also, the risk of not detecting a material misstatement due to fraud is higher than the risk of not detecting one resulting from error, as fraud may involve deliberate concealment by, for example, forgery or intentional misrepresentations, or through collusion.

Our audit testing might include testing complete populations of certain transactions and balances, possibly using data auditing techniques. However, it typically involves selecting a limited number of items for testing, rather than testing complete populations. We will often seek to target particular items for testing based on their size or risk characteristics. In other cases, we will use audit sampling to enable us to draw a conclusion about the population from which the sample is selected.

A further description of our responsibilities for the audit of the financial statements is located on the IAASA website at:

https://www.iaasa.ie/getmedia/b2389013-1cf6-458b-9b8f-a98202dc9c3a/Description of auditors responsibilities for audit.pdf.

This description forms part of our auditors' report.



## Use of this report

This report, including the opinions, has been prepared for and only for the shareholders of each of the Sub-Funds as a body in accordance with section 120 of the Irish Collective Asset-management Vehicles Act 2015 and for no other purpose. We do not, in giving these opinions, accept or assume responsibility for any other purpose or to any other person to whom this report is shown or into whose hands it may come save where expressly agreed by our prior consent in writing.

## Other required reporting

## Irish Collective Asset-management Vehicles Act 2015 exception reporting

#### Directors' remuneration

Under the Irish Collective Asset-management Vehicles Act 2015 we are required to report to you if, in our opinion, the disclosures of directors' remuneration specified by section 117 of that Act have not been made. We have no exceptions to report arising from this responsibility.

## Appointment

We were appointed by the Board of Directors on 8 October 2018 to audit the financial statements for the year ended 31 December 2018 and subsequent financial periods. The period of total uninterrupted engagement is 5 years, covering the years ended 31 December 2018 to 31 December 2022.

Aoife O'Connor for and on behalf of PricewaterhouseCoopers Chartered Accountants and Statutory Audit Firm Dublin 20 April 2023

Statement of Financial Position

As at 31 December 2022

	Notes	AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> USD	BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup> USD
Assets Financial assets at fair value through profit or loss Cash Cash equivalents Cash collateral received* Amounts due from brokers Dividend receivable Interest receivable Securities sold awaiting settlement Receivable for shares issued Other receivables**	2 3 3 18	19,728,899 287,938 - 116,685 35,455 - 14,981	83,215,167 210,075 - - - 1,097,156 1,877,145
Total Assets		20,183,958	86,399,543
Liabilities Financial liabilities at fair value through profit or loss Bank overdraft Amounts due to brokers Fees and expenses payable Securities purchased awaiting settlement Payable for shares redeemed Distributions payable Other payables**	2 3 4	(8,017) (1,016) -	(588,967) - (33,479) (1,504,496) - -
Total Liabilities (excluding net assets attributable to holders of redeemable participating shares)	_	(9,033)	(2,126,942)
Net assets attributable to holders of redeemable participating shares	_	20,174,925	84,272,601

On behalf of the Board of Directors:

Director: Lorcan Murphy 20 April 2023

Director: Bronwyn Wright 20 April 2023

The accompanying notes form an integral part of the financial statements.

<sup>\*</sup>Represents cash collateral received as at the year end in relation to securities lending transactions.

\*\*Other receivables are principally comprised of securities lending income receivable as at the year end. Other payables are principally comprised of the adjustments to account for balances in the name of the Sub-Funds in accordance with the Central Bank (Supervision and Enforcement Act 2013 (Section 48(1)) Investor Money Regulations 2015 for Fund Service Providers ("the Regulations"), capital gains tax payable and cash collateral balances due to the Securities Lending Agent as at the year end.

| Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022.

Statement of Financial Position (continued)

As at 31 December 2022

BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup> USD	BetaBuilders US Equity UCITS ETF USD	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders EUR Govt Bond UCITS ETF EUR	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR
2,481,180,426 1,756,322	19,278,557 62,946	18,441,886 235	37,573,253 26,325	15,258,323 9,137	55,208,241 42,862
18,649,152 -	- - 830	46,694 6,299 13,138	- - -	- - -	- -
2,389,836	19,310	14,312	188,345	140,622	293,024
138,065,043 - 23,436	8,483 212 10	- - 92	3,385,145 - -	354,083 421 -	2,299,286 - 198
					·
2,642,064,215	19,370,348	18,552,656	41,173,068	15,762,586	57,843,611
(35,069,058) (5,798)	(763)	(1,303)	-	<u>.</u>	- -
(365,344) (127,418,700)	(4,573) -	(1,243)	(4,681) (3,351,630)	(2,401) (353,184)	(9,688) (2,306,734)
(18,651,151)	- - -	(6,299)	(38,170)	- -	- - -
(181,510,051)	(5,336)	(8,845)	(3,394,481)	(355,585)	(2,316,422)
2,460,554,164	19,365,012	18,513,811	37,778,587	15,407,001	55,527,189

On behalf of the Board of Directors:

Director: Lorcan Murphy 20 April 2023

 $<sup>^3</sup>$ Sub-Fund launched on 9 August 2022.

Statement of Financial Position (continued)

As at 31 December 2022

	Notes	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD
Assets			
Financial assets at fair value through profit or loss	2	107,441,445	91,772,555
Cash Cash Cash Cash Cash Cash Cash Cash	3	201 72.839	66,235
Cash equivalents Cash collateral received*	18	72,839 4,804,400	-
Amounts due from brokers	10		_
Dividend receivable		-	-
Interest receivable		107,992	370,283
Securities sold awaiting settlement		25,051,181	6,561,777
Receivable for shares issued		-	-
Other receivables**		3,322	-
Total Assets		137,481,380	98,770,850
		137, 161,550	
Liabilities			
Financial liabilities at fair value through profit or loss	2	(2,642,165)	(34,875)
Bank overdraft	3	(648)	-
Amounts due to brokers		(20,572)	(11, 222)
Fees and expenses payable	4	(19,573)	(11,222)
Securities purchased awaiting settlement Payable for shares redeemed		(23,421,066)	(6,567,455)
Distributions payable		=	-
Other payables**		(4,804,400)	-
Total Liabilities (excluding net assets attributable to holders of redeemable participating shares)		(30,887,852)	(6,613,552)
		(= 3,007,002)	(0,013,002)
Net assets attributable to holders of redeemable participating shares		107 503 533	02.157.222
net assets attributable to noiders of redeemable participating stidies		106,593,528	92,157,298

On behalf of the Board of Directors:

Director: Lorcan Murphy 20 April 2023

<sup>\*</sup>Represents cash collateral received as at the year end in relation to securities lending transactions.

\*\*Other receivables are principally comprised of securities lending income receivable as at the year end. Other payables are principally comprised of the adjustments to account for balances in the name of the Sub-Funds in accordance with the Central Bank (Supervision and Enforcement Act 2013 (Section 48(1)) Investor Money Regulations 2015 for Fund Service Providers ("the Regulations"), capital gains tax payable and cash collateral balances due to the Securities Lending Agent as at the year end.

Statement of Financial Position (continued)

As at 31 December 2022

EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	Climate Change Solutions UCITS ETF <sup>6</sup> USD	China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup> USD	Carbon Transition Global Equity (CTB) UCITS ETF USD	Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup> USD	BetaBuilders US Treasury Bond UCITS ETF USD
22,291,244 33,599 -	13,031,317 67,995 318,470	8,486,510 47,302	202,864,096 204,900 196	4,984,786 24,207 -	210,413,277 3,679 213,360 731,118
-	=	-	16,898	-	-
170,646 517,131 -	4,496 - - 718 -	4,498	106,316 - 424 2,270	4,419 -	1,363,857 4,725,955 - 139
23,012,620	13,422,996	8,538,310	203,195,100	5,013,412	217,451,385
-	- -	-	(20,552)	- -	(627,308)
(8,994) (502,502)	(12,318) (22,598)	(5,411) - -	(22,065) (70,542)	(1,143) (4,989)	(35,249) (4,572,639)
-	-	- -	- -	(8,945)	(731,753)
(511,496)	(34,916)	(5,411)	(113,159)	(15,077)	(5,966,949)
22,501,124	13,388,080	8,532,899	203,081,941	4,998,335	211,484,436

On behalf of the Board of Directors:

Director: Lorcan Murphy 20 April 2023

<sup>&</sup>lt;sup>4</sup>Sub-Fund launched on 6 December 2022. <sup>5</sup>Sub-Fund launched on 15 February 2022. <sup>6</sup>Sub-Fund launched on 14 June 2022.

Statement of Financial Position (continued)

As at 31 December 2022

	Notes	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR
Assets Financial assets at fair value through profit or loss Cash Cash equivalents Cash collateral received* Amounts due from brokers Dividend receivable Interest receivable Securities sold awaiting settlement Receivable for shares issued Other receivables**	2 3 3 18	121,558,166 250,499 - - - 1,014,584 2,565,033	962,331,310 22,609,335 206,839,582 - - 2,009,523 423,622 3,950,332 1,580
Total Assets	_	125,388,282	1,198,165,284
Liabilities Financial liabilities at fair value through profit or loss Bank overdraft Amounts due to brokers Fees and expenses payable Securities purchased awaiting settlement Payable for shares redeemed Distributions payable Other payables**	2 3 4	(570,642) - - (43,488) (2,116,902) - -	(2,889,420) - (158,717) (11,977,841) -
Total Liabilities (excluding net assets attributable to holders of redeemable participating shares)		(2,731,032)	(15,025,978)
Net assets attributable to holders of redeemable participating shares		122,657,250	1,183,139,306

On behalf of the Board of Directors:

Director: Lorcan Murphy 20 April 2023

<sup>\*</sup>Represents cash collateral received as at the year end in relation to securities lending transactions.

\*\*Other receivables are principally comprised of securities lending income receivable as at the year end. Other payables are principally comprised of the adjustments to account for balances in the name of the Sub-Funds in accordance with the Central Bank (Supervision and Enforcement Act 2013 (Section 48(1)) Investor Money Regulations 2015 for Fund Service Providers ("the Regulations"), capital gains tax payable and cash collateral balances due to the Securities Lending Agent as at the year end.

Statement of Financial Position (continued)

As at 31 December 2022

Global High Yield Corporate Bond Multi-Factor UCITS ETF USD	Global Equity Multi-Factor UCITS ETF USD	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup> USD	GBP Ultra-Short Income UCITS ETF GBP	Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup> EUR	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR
211,908,205 1,964,992 1,055,702 1,585,532	86,838,281 138,298 - - 23,068	823,161,326 2,967,034 7,054,510	61,019,168 9,730,849 50,498,313 -	93,221,706 50,595 495,074 -	312,613,120 124,376 2,027,043 -
3,577,389 8,286,113 7,864,628 1,673	219,896 - 1,677 270 305	2,210,335 - - 34,652	368,003 27,160 -	170,432 - - - -	704,255 - - - -
236,244,234	87,221,795	835,427,857	121,643,493	93,937,807	315,468,794
(1,260,543)	(4,713)	- -	(427,684) -	- -	· -
(119,982) (11,940,591) (4,501,469)	(26,872) (102)	(361,632) (562,049)	(19,151) - - - (142,022)	(35,517) (1,386)	(121,865) (4,742)
(1,585,532)	-	(1,082,615)	(163,932)	- -	-
(19,408,117)	(31,687)	(2,006,296)	(610,767)	(36,903)	(126,607)
216,836,117	87,190,108	833,421,561	121,032,726	93,900,904	315,342,187

On behalf of the Board of Directors:

Director: Lorcan Murphy 20 April 2023

<sup>&</sup>lt;sup>7</sup>Sub-Fund launched on 26 April 2022. <sup>8</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

Statement of Financial Position (continued)

As at 31 December 2022

	Notes	Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>9</sup> USD
Assets Financial assets at fair value through profit or loss Cash Cash equivalents Cash collateral received* Amounts due from brokers Dividend receivable Interest receivable Securities sold awaiting settlement Receivable for shares issued Other receivables**	2 3 3 18	1,103,187,606 6,842,958 7,870,913 - 1,134,171 - 4,695 1,495,764	57,387,369 357,672 191,733 - - 73,004 - 87
Total Assets		1,120,536,107	58,009,865
Liabilities Financial liabilities at fair value through profit or loss Bank overdraft Amounts due to brokers Fees and expenses payable Securities purchased awaiting settlement Payable for shares redeemed Distributions payable	2 3 4	(1,957,801) - (427,743) (6,306,637) (1,495,576)	(33,571) - - (21,665) - -
Other payables**		-	(200,690)
Total Liabilities (excluding net assets attributable to holders of redeemable participating shares)		(10,187,757)	(255,926)
Net assets attributable to holders of redeemable participating shares	_	1,110,348,350	57,753,939

On behalf of the Board of Directors:

Director: Lorcan Murphy 20 April 2023

<sup>\*</sup>Represents cash collateral received as at the year end in relation to securities lending transactions.

\*\*Other receivables are principally comprised of securities lending income receivable as at the year end. Other payables are principally comprised of the adjustments to account for balances in the name of the Sub-Funds in accordance with the Central Bank (Supervision and Enforcement Act 2013 (Section 48(1)) Investor Money Regulations 2015 for Fund Service Providers ("the Regulations"), capital gains tax payable and cash collateral balances due to the Securities Lending Agent as at the year end.

Sub-Fund launched on 29 March 2022.

Statement of Financial Position (continued)

## As at 31 December 2022

USD Ultra-Short Income UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Corporate Bond search Enhanced Index (ESG) UCITS ETF USD	US Research Enhanced Index Equity Re (ESG) UCITS ETF USD	US Equity Multi-Factor UCITS ETF <sup>12</sup> USD	UK Equity Core UCITS ETF <sup>11</sup> GBP	RMB Ultra-Short Income UCITS ETF <sup>10</sup> USD
212,375,580	382,834,686	89,926,089	1,993,485,131	-	11,213,326	46,146,782
-	98,209	95,866	1,132,932	-	427,801	70,633
11,904,978	778,839	246,200	5,141,815	-	60,979	2,733,144
34,595	726,650	127,414	-	-	-	
34,393	_	127,414	1,580,073	12,617	32,390	-
1,291,211	6,561,939	963,764	1,360,073	12,017	32,390	607,159
	7,174,818	2,360,398	-	-	-	-
-	-	1,730	-	=	-	-
-	36,252	18	-	-	-	-
225,606,364	398,211,393	93,721,479	2,001,339,951	12,617	11,734,496	49,557,718
(17,938)	(978,988)	(155,592)	(86,461)	-	-	=
(60,477)	-	(1,390,961)	(36,479)	(10,042)	(0.22)	-
(/7.740)	(247,665)	(26,469)	(653,220)	(1,793)	(932)	(22,275)
(67,749)	(13,976,225)	(26,469) (459,274)	(653,220)	(1,793)	(4,663)	(22,275)
	(13,976,223)	(2,104,898)	-	-	_	-
(250,106)	(228,583)	(2,104,696)	-	-	_	(23,740)
(230,100)	(727,025)	_	(1,161,261)	(782)	(308,395)	(23,7 10)
	(727,023)		(1,101,201)	(702)	(300,373)	
(396,270)	(16,158,486)	(4,137,194)	(1,937,421)	(12,617)	(313,990)	(46,015)
225 210 004	202.052.007	00 504 305	1,000,403,530		11 420 507	40 511 702
225,210,094	382,052,907	89,584,285	1,999,402,530		11,420,506	49,511,703

On behalf of the Board of Directors:

Director: Lorcan Murphy 20 April 2023

 <sup>&</sup>lt;sup>10</sup>Sub-Fund launched on 1 March 2022.
 <sup>11</sup>Sub-Fund launched on 14 June 2022.
 <sup>12</sup>Sub-Fund liquidated on 23 November 2022.

	Notes	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR	BetaBuilders EUR Govt Bond UCITS ETF EUR
	Notes	EUR	EUR
Assets Financial assets at fair value through profit or loss Cash Cash equivalents Amounts due from brokers Dividend receivable	2 3 3	140,231,548 21,706 - -	44,523,826 324,721 - -
Interest receivable Securities sold awaiting settlement Receivable for shares issued Other receivables*		909,516 - - - -	291,819 - - -
Total Assets		141,162,770	45,140,366
<b>Liabilities</b> Financial liabilities at fair value through profit or loss Bank overdraft	2 3	-	-
Amounts due to brokers Fees and expenses payable Securities purchased awaiting settlement Payable for shares redeemed Distributions payable	4	(15,625) - -	(7,267) (315,179)
Other payables*		-	(77)
Total Liabilities (excluding net assets attributable to holders of redeemable participating shares)		(15,625)	(322,523)
Net assets attributable to holders of redeemable participating shares		141,147,145	44,817,843

<sup>\*</sup>Other receivables are principally comprised of securities lending income receivable as at the year end. Other payables are principally comprised of capital gains tax payable as at the year end.

Statement of Financial Position (continued)

BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders US Equity UCITS ETF USD	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>1</sup> USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond UCITS ETF USD
28,179,717 26,082 -	18,643,158 8,272 49,267 10,958	2,223,723,374 103,892,673 - -	30,470,505 350,491 1,363,805	142,548,733 44,029 -	104,471,857 1,152 201,126
127,381	9,710	2,056,746	4,903	366,485	438,289
23,007	4,750	61,183,537	7,229,845	8,692,431	2,390,735
-	2	- 599	-	-	-
28,356,187	18,726,117	2,390,856,929	39,419,549	151,651,678	107,503,159
-	-	(9,856,808)	(91,609)	(1,167)	(471,687)
-	-	-	-	-	-
(4,339) (30,424) (4,541)	(1,259) (4,708)	(371,291) (150,245,239) (14,671,298)	(4,796) (8,939,154) -	(18,228) (8,733,994)	(15,146) (2,559,079)
-	-	-	-	-	-
(39,304)	(5,967)	(175,144,636)	(9,035,559)	(8,753,389)	(3,045,912)
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. , , ,	,,	
28,316,883	18,720,150	2,215,712,293	30,383,990	142,898,289	104,457,247

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 17 February 2021.

Statement of Financial Position (continued)

		Carbon Transition Global Equity (CTB) UCITS ETF	Equity Long-Short UCITS ETF <sup>2</sup>
	Notes	USD	USD
Assets			
Financial assets at fair value through profit or loss	2	45,656,467	=
Cash Cash equivalents	3 3	53,662 196	-
Amounts due from brokers	3	5,294	-
Dividend receivable		31,503	_
Interest receivable		-	-
Securities sold awaiting settlement		-	-
Receivable for shares issued		-	-
Other receivables*		-	-
Total Assets		45,747,122	<u> </u>
Liabilities			
Financial liabilities at fair value through profit or loss	2	-	-
Bank overdraft	3	=	-
Amounts due to brokers	4	(14.401)	-
Fees and expenses payable Securities purchased awaiting settlement	4	(14,481)	-
Payable for shares redeemed		_	_
Distributions payable		-	-
Other payables*		-	-
Total Liabilities (excluding net assets attributable to holders of redeemable participating shares)		(14,481)	-
Net assets attributable to holders of redeemable participating shares		45,732,641	

<sup>\*</sup>Other receivables are principally comprised of securities lending income receivable as at the year end. Other payables are principally comprised of capital gains tax payable as at the year end.

 $<sup>^2</sup>$ Sub-Fund liquidated on 19 June 2020.

Statement of Financial Position (continued)

Global Emerging Market Research Enhanced Inde: Equity (ESG) UCITS ETI USI	GBP Ultra-Short Income UCITS ETF GBP	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR
662,966,980	83,219,500	227,002,825	1,049,334,982	189,557,559	38,612,460
2,299,980	2.963.745	680.584	2,907,676	299.082	39.185
2,701,509	24,394,038	1,404,783	69,199,201	-	-
48,200	=	· · · · -	-	248,015	26,390
1,271,890	=	218,721	-	=	=
	503,081	=	2,903,539	1,390,746	243,440
	-	-	140,406	1,852,140	773,368
	-	-	-	-	-
	-	-	-	34	-
669,288,559	111,080,364	229,306,913	1,124,485,804	193,347,576	39,694,843
	(52,708)		(2,043,560)	(208,123)	(9,500)
	(52,706)	(322,164)	(2,043,300)	(200,123)	(9,500)
	-	(322,104)	-	-	-
(347,381	(18,832)	(97,646)	(157.640)	(62,799)	(12,779)
(36	(10,174)	(282,607)	(5,136,772)	(1,896,509)	(784,213)
(30	-	-	-	(2,656,565)	(/ 0 1,215)
	(21,143)	-	-	-	-
(1,249,111	-	-	-	-	-
(1,596,528	(102,857)	(702,417)	(7,337,972)	(2,167,431)	(806,492)
667,692,03	110,977,507	228,604,496	1,117,147,832	191,180,145	38,888,351

Statement of Financial Position (continued)

	Notes	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
Assets Financial assets at fair value through profit or loss Cash Cash equivalents Amounts due from brokers Dividend receivable Interest receivable Securities sold awaiting settlement Receivable for shares issued Other receivables*	2 3 3	58,798,984 3,535,780 - 13,088 102,513 - 3,979 1,270	238,181,398 938,003 697,027 - - 3,673,909 - - 626
Total Assets		62,455,665	243,490,963
Liabilities			
Financial liabilities at fair value through profit or loss Bank overdraft Amounts due to brokers	2	-	(996,291)
Fees and expenses payable Securities purchased awaiting settlement Payable for shares redeemed Distributions payable Other payables*	4	(17,472) (3,440,701)	(143,761)
Total Liabilities (excluding net assets attributable to holders of redeemable participating shares)		(3,458,173)	(1,140,052)
Net assets attributable to holders of redeemable participating shares		58,997,492	242,350,911

<sup>\*</sup>Other receivables are principally comprised of securities lending income receivable as at the year end. Other payables are principally comprised of capital gains tax payable as at the year end.

Statement of Financial Position (continued)

USD Ultra-Short Income UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD	US Equity Multi-Factor UCITS ETF USD	Managed Futures UCITS ETF <sup>3</sup> USD	Global Research Enhanced Index Equity (ESG) UCITS ETF USD
260,522,383	505,025,956	81,474,770	959,980,627	16,417,301	-	387,272,040
561	232	847		53,897	-	2,462,712
7,875,680	1,885,637	283,709	1,822,724	-	-	2,402,127
-	-,000,00	146,703	-,,	6,289	-	34,960
-	-		446,603	16,213	-	246,387
1,006,032	7,515,046	697,849	-		-	
2,214,031	23,834	707,764	-	-	-	-
-,,		-	-	Ē	-	-
-	321	-	-	-	-	-
271,618,687	514,451,026	83,311,642	962,249,954	16,493,700	-	392,418,226
=	(1,911,041)	(158,689)	=	=	-	(7,747)
-	-	-	(2,786)	-	-	(259,292)
(66,586)	-	-	-	-	-	-
(93,659)	(351,122)	(26,051)	(248,074)	(5,232)	-	(148,113)
-	-	(873,183)	=	-	-	(721,238)
(7,332,570)	=	=	=	=	-	=
(24,884)	(409,639)	-	=	-	-	=
-	(113,432)	-	-	-	-	-
(7,517,699)	(2,785,234)	(1,057,923)	(250,860)	(5,232)	-	(1,136,390)
264,100,988	511,665,792	82,253,719	961,999,094	16,488,468	-	391,281,836

 $<sup>^3</sup>$ Sub-Fund liquidated on 17 November 2020.

Statement of Comprehensive Income

	Notes	AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> USD	BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup> USD
	Notes	usb	
Investment income  Net (loss)/gain in fair value on financial assets and financial liabilities at fair value through profit or loss Dividend income Interest from financial assets at fair value through profit or loss Interest income Securities lending income Other income	6 2 2 2 2 2,18	(2,620,217) 446,313 - 2,989	(3,162,111) 17 1,238,722 535 - 246
Total operating (loss)/income		(2,170,915)	(1,922,591)
Expenses Fees and expenses Interest expense	5	(35,508)	(114,955)
Total operating expenses		(35,508)	(114,955)
Finance costs Overdraft expense Distributions	2, 13	(264) (101,920)	(552) (188,268)
Total finance costs		(102,184)	(188,820)
Net (loss)/income from operations before tax	_	(2,308,607)	(2,226,366)
Withholding tax Capital gain tax	2 2	(43,202)	-
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	_	(2,351,809)	(2,226,366)

The net income arose solely from continuing operations. There were no other recognised gains or losses for the year other than as set out in the above Statement of Comprehensive Income.

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022. <sup>2</sup>Sub-Fund launched on 17 March 2022.

Statement of Comprehensive Income (continued)

For the year ended 31 December 2022

BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup> USD	BetaBuilders US Equity UCITS ETF USD	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders EUR Govt Bond UCITS ETF EUR	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR
198,384,382 -	(943,974) 131,670	(4,216,370) 294,476	(2,768,165)	(8,076,372)	(3,484,902)
32,836,527	-	-	333,173	130,892	-
402,316 92,807	10	398 581	364	25	221
6,580	60	494	- 75	65	1,907
231,722,612	(812,234)	(3,920,421)	(2,434,553)	(7,945,390)	(3,482,774)
(2,182,382)	(9,797)	(7,224) -	(26,862) -	(29,447)	(71,312) (66,285)
(2,182,382)	(9,797)	(7,224)	(26,862)	(29,447)	(137,597)
(19,550) -	(17,566)	(4) (29,466)	- (260,453)	(268)	(366)
(19,550)	(17,566)	(29,470)	(260,453)	(268)	(366)
229,520,680	(839,597)	(3,957,115)	(2,721,868)	(7,975,105)	(3,620,737)
-	(20,464)	(41,364)	- -	(49)	- -
229,520,680	(860,061)	(3,998,479)	(2,721,868)	(7,975,154)	(3,620,737)

The net income arose solely from continuing operations. There were no other recognised gains or losses for the year other than as set out in the above Statement of Comprehensive Income.

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 9 August 2022.

Statement of Comprehensive Income (continued)

For the year ended 31 December 2022

	Notes	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD
Investment income  Net (loss)/gain in fair value on financial assets and financial liabilities at fair value through profit or loss  Dividend income Interest from financial assets at fair value through profit or loss Interest income  Securities lending income  Other income	6 2 2 2 2,18	10,114,454 30,834 1,826,535 11,859 5,312 203	(5,543,531) - 1,366,642 1,694 13 1,451
Total operating (loss)/income	_	11,989,197	(4,173,731)
Expenses Fees and expenses Interest expense	5	(89,609)	(76,052)
Total operating expenses	_	(89,609)	(76,052)
Finance costs Overdraft expense Distributions	2, 13	(3,540)	(8)
Total finance costs		(3,540)	(8)
Net (loss)/income from operations before tax	_	11,896,048	(4,249,791)
Withholding tax Capital gain tax	2 2	-	-
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	_	11,896,048	(4,249,791)

Statement of Comprehensive Income (continued)

For the year ended 31 December 2022

EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUF	Climate Change Solutions UCITS ETF <sup>6</sup> USD	China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup> USD	Carbon Transition Global Equity (CTB) UCITS ETF USD	Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup> USD	BetaBuilders US Treasury Bond UCITS ETF USD
(3,227,280	1,185,098	(2,157,606)	(9,764,632)	(6,697)	(39,831,383)
(3,227,200	52,660	216,321	1,052,645	(6,697)	(39,031,303)
229,412	=	· -	· · · · · · · · · · · · · · ·	-	4,744,671
167	1,053	1,009	6,143	330	3,011
2,583	482	13	- 258	-	189 11,694
2,383	482	13	238	-	11,094
(2,995,118)	1,239,293	(1,940,263)	(8,705,586)	(5,738)	(35,068,129)
(67,588	(35,990)	(30,946)	(87,375) -	(1,143)	(166,996)
(67,588	(35,990)	(30,946)	(87,375)	(1,143)	(166,996)
(518)	- -	- (71,420)	- -	-	(1,821)
(518)	-	(71,420)	-	-	(1,821)
(3,063,224)	1,203,303	(2,042,629)	(8,792,961)	(6,881)	(35,236,946)
(755)	(5,634)	(21,627)	(148,010)	(63) -	- -
(3,063,979	1,197,669	(2,064,256)	(8,940,971)	(6,944)	(35,236,946)

<sup>&</sup>lt;sup>4</sup>Sub-Fund launched on 6 December 2022. <sup>5</sup>Sub-Fund launched on 15 February 2022. <sup>6</sup>Sub-Fund launched on 14 June 2022.

Statement of Comprehensive Income (continued)

For the year ended 31 December 2022

	Notes	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR
Investment income  Net (loss)/gain in fair value on financial assets and financial liabilities at fair value through profit or loss Dividend income Interest from financial assets at fair value through profit or loss Interest income Securities lending income Other income	6 2 2 2 2 2, 18	(27,202,999) - 1,669,694 1,172 - 853	(7,631,631) 309 2,886,469 364,208 - 4,945
Total operating (loss)/income	-	(25,531,280)	(4,375,700)
Expenses Fees and expenses Interest expense	5	(312,518)	(926,529)
Total operating expenses	-	(312,518)	(926,529)
Finance costs Overdraft expense Distributions	2, 13	(3,592) -	-
Total finance costs	-	(3,592)	
Net (loss)/income from operations before tax	-	(25,847,390)	(5,302,229)
Withholding tax Capital gain tax	2 2	(1,768)	(5,954)
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	-	(25,849,158)	(5,308,183)

Statement of Comprehensive Income (continued)

For the year ended 31 December 2022

Global High Yield Corporate Bond Multi-Factor UCITS ETF USD	Global Equity Multi-Factor UCITS ETF USD	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup> USD	GBP Ultra-Short Income UCITS ETF GBP	Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup> EUR	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR
(43,974,880	(11,215,302)	(206,367,202)	(791,541)	4,890,707	(32,542,372)
9,305 12,097,664	2,567,469	26,925,654	118,624 812,245	620,260	9,219,073
9,587	1,801	15,925	547,927	34	-
14,357 7,169	2,527 166	1,564	635	- 534	9,482
(31,836,798)	(8,643,339)	(179,424,059)	687,890	5,511,535	(23,313,817)
(695,358	(152,279)	(2,186,383)	(115,282)	(59,484)	(649,438)
(695,358)	(152,279)	(2,186,383)	(115,282)	(59,484)	(649,438)
(4,982,606	-	(8,277) (105,536)	(12) (969,320)	(856) (78,961)	(1,458) (17,467)
(4,982,606)	-	(113,813)	(969,332)	(79,817)	(18,925)
(37,514,762)	(8,795,618)	(181,724,255)	(396,724)	5,372,234	(23,982,180)
	(314,941)	(2,961,682) (63,121)	(21)	(98,911)	(826,611)
(37,514,762	(9,110,559)	(184,749,058)	(396,745)	5,273,323	(24,808,791)

<sup>&</sup>lt;sup>7</sup>Sub-Fund launched on 26 April 2022. <sup>8</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

Statement of Comprehensive Income (continued)

For the year ended 31 December 2022

	Notes	Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>9</sup> USD
Investment income  Net (loss)/gain in fair value on financial assets and financial liabilities at fair value through profit or loss Dividend income Interest from financial assets at fair value through profit or loss Interest income Securities lending income Other income	6 2 2 2 2,18	(144,606,832) 16,353,321 - 14,253 - 2,321	148,672 643,835 - 1,110 - 140
Total operating (loss)/income		(128,236,937)	793,757
Expenses Fees and expenses Interest expense	5	(1,888,171)	(61,911)
Total operating expenses	-	(1,888,171)	(61,911)
Finance costs Overdraft expense Distributions	2, 13	(504) (12,200)	(125,130)
Total finance costs		(12,704)	(125,130)
Net (loss)/income from operations before tax	-	(130,137,812)	606,716
Withholding tax Capital gain tax	2 2	(2,007,320)	(96,167)
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations		(132,145,132)	510,549

<sup>&</sup>lt;sup>9</sup>Sub-Fund launched on 29 March 2022.

Statement of Comprehensive Income (continued)

For the year ended 31 December 2022

USD Ultra-Sho Incom UCITS ET US	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD	US Equity Multi-Factor UCITS ETF <sup>12</sup> USD	UK Equity Core UCITS ETF <sup>11</sup> GBP	RMB Ultra-Short Income UCITS ETF <sup>10</sup> USD
(959,38)	(123,304,029)	(19,786,555)	(215,748,170)	(1,449,115)	253,891	(5,443,026)
245,88	19.379	7,167	22,016,306	340,684	207,131	(3,443,020)
3,459,49	21,374,047	2,825,704	-	-	-	1,048,763
44,68	10,861	2,359	388	1,015	574	39,277
	98,612	-	-	165	-	-
12,63	5,135	5,451	4,521	228	637	2,804
2,803,30	(101,795,995)	(16,945,874)	(193,726,955)	(1,107,023)	462,233	(4,352,182)
(414,16	(1,573,181)	(156,816)	(2,667,172)	(26,754)	(14,920)	(122,343)
(414,16	(1,573,181)	(156,816)	(2,667,172)	(26,754)	(14,920)	(122,343)
(63) (1,391,91	(2,128) (3,794,082)	(220) (50,982)	(686) (903,272)	(83)	(2) (70,794)	(13) (436,726)
(1,392,55	(3,796,210)	(51,202)	(903,958)	(83)	(70,796)	(436,739)
996,59	(107,165,386)	(17,153,892)	(197,298,085)	(1,133,860)	376,517	(4,911,264)
(8,51	-	-	(3,155,938)	(46,778)	(660)	- -
000.00	(107.175.207)	(17.152.002)	(200 454 022)	(1100 (20)	275.057	(4.011.27.4)
988,08	(107,165,386)	(17,153,892)	(200,454,023)	(1,180,638)	375,857	(4,911,264)

 <sup>&</sup>lt;sup>10</sup>Sub-Fund launched on 1 March 2022.
 <sup>11</sup>Sub-Fund launched on 14 June 2022.
 <sup>12</sup>Sub-Fund liquidated on 23 November 2022.

Statement of Comprehensive Income

For the year ended 31 December 2021

	Notes	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR	BetaBuilders EUR Govt Bond UCITS ETF EUR
Investment income  Net (loss)/gain in fair value on financial assets and financial liabilities at fair value through profit or loss Dividend income Interest from financial assets at fair value through profit or loss Interest income Securities lending income	6 2 2 2 2 2, 18	(280,673) - - - -	(1,514,611) - 20,359 -
Total operating (loss)/income	-	(280,673)	(1,494,252)
Expenses Fees and expenses Interest expense	5	(73,135) (355,947)	(23,858)
Total operating expenses	-	(429,082)	(23,858)
Finance costs Overdraft expense Distributions	2, 13	(724)	(741)
Total finance costs	-	(724)	(741)
Net (loss)/income from operations before tax	-	(710,479)	(1,518,851)
Withholding tax Capital gain tax	2 2	-	-
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	-	(710,479)	(1,518,851)

Statement of Comprehensive Income (continued)

For the year ended 31 December 2021

US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond O-3 Months UCITS ETF <sup>1</sup> USD	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Equity UCITS ETF USD	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP
(1,572,492)	(50,263)	44,490,979	3,161,158	(686,173)
- 444 025			191,/93	61,506
			<del>-</del>	01,500
-	-	-	67	-
(927,561)	(45,256)	45,739,188	3,353,018	(624,666)
(120,882)	(9,302)	(2,132,872)	(5,031)	(22,465) -
(120,882)	(9,302)	(2,132,872)	(5,031)	(22,465)
-		(18,188)	(7) (19,181)	(38,204)
-	-	(18,188)	(19,188)	(38,204)
(1,048,443)	(54,558)	43,588,128	3,328,799	(685,335)
-	-	-	(27,562)	- -
(1 048 443)	(54 559)	A3 588 120	3 301 237	(685,335)
	(120,882)	(45,256) (927,561)  (9,302) (120,882)  (9,302) (120,882)	1,216,016 4,963 644,925 32,193 5 6  45,739,188 (45,256) (927,561)  (2,132,872) (9,302) (120,882)  (18,188)	191,793 - 1,216,016 4,963 644,925 - 32,193 5 6 67 - 32,193 5 6  3,353,018 - 45,739,188 - (45,256) - (927,561)  (5,031) - (2,132,872) - (9,302) - (120,882) - (19,181)

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 17 February 2021.

Statement of Comprehensive Income (continued)

For the year ended 31 December 2021

		Carbon Transition Global Equity (CTB) UCITS ETF	Equity Long-Short UCITS ETF <sup>2</sup>
	Notes		USD
Investment income  Net (loss)/gain in fair value on financial assets and financial liabilities at fair value through profit or loss Dividend income Interest from financial assets at fair value through profit or loss Interest income Securities lending income	6 2 2 2 2,18	6,665,889 775,663 - - -	- - - -
Total operating (loss)/income		7,441,552	
Expenses Fees and expenses Interest expense	5	(68,387)	- -
Total operating expenses		(68,387)	_
Finance costs Overdraft expense Distributions	2, 13	(114)	:
Total finance costs		(114)	-
Net (loss)/income from operations before tax		7,373,051	
Withholding tax Capital gain tax	2 2	(103,779)	
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations		7,269,272	

<sup>&</sup>lt;sup>2</sup>Sub-Fund liquidated on 19 June 2020.

Statement of Comprehensive Income (continued)

For the year ended 31 December 2021

Global Emerging Market Research Enhanced Inde Equity (ESG) UCITS ET US	GBP Ultra-Short Income UCITS ETF GBP	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR
(36,035,154	(444,853)	39,246,191	(4,476,095)	(3,512,404)	(196,687)
18,119,16	4,993	5,831,563	1 002 775	1 (54 94)	145 200
1,21	515,724 6,133	19	1,003,775	1,654,846 48	145,388 90
1,21	-	-	-	945	-
(17,914,775	81,997	45,077,773	(3,472,320)	(1,856,565)	(51,209)
4	(122.22)	(100.00)	()	(27, -22)	()
(1,923,907	(108,050)	(499,976) -	(773,732) (192,653)	(351,120)	(72,279) -
(1,923,907	(108,050)	(499,976)	(966,385)	(351,120)	(72,279)
(1,538	(219) (346,910)	(6,494)	(8,228)	(8,002)	(1,465)
(1,538	(347,129)	(6,494)	(8,228)	(8,002)	(1,465)
(19,840,220	(373,182)	44,571,303	(4,446,933)	(2,215,687)	(124,953)
(1,935,374 (747,053	(41)	(422,385)	(6,384)	(1,253)	(337)
(22,522,647	(373,223)	44,148,918	(4,453,317)	(2,216,940)	(125,290)

Statement of Comprehensive Income (continued)

For the year ended 31 December 2021

	Notes	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
Investment income  Net (loss)/gain in fair value on financial assets and financial liabilities at fair value through profit or loss Dividend income Interest from financial assets at fair value through profit or loss Interest income	6 2 2 2	6,478,037 1,174,398	(5,817,160) 1,010 11,729,147
Securities lending income	2, 18	101	1,753
Total operating (loss)/income	_	7,652,536	5,914,750
Expenses Fees and expenses Interest expense	5	(76,066)	(775,933) -
Total operating expenses	_	(76,066)	(775,933)
Finance costs Overdraft expense Distributions	2, 13	(92)	(3,531) (3,251,898)
Total finance costs	_	(92)	(3,255,429)
Net (loss)/income from operations before tax	_	7,576,378	1,883,388
Withholding tax Capital gain tax	2 2	(133,298)	-
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	_	7,443,080	1,883,388

Statement of Comprehensive Income (continued)

For the year ended 31 December 2021

USD Ultra-Short Income UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD	US Equity Multi-Factor UCITS ETF USD	Managed Futures UCITS ETF <sup>3</sup> USD	Global Research Enhanced Index Equity (ESG) UCITS ETF USD
(1,425,411) 17,968 1,635,325 90	(77,055,506) 2,536 27,267,420 -	(4,055,010) 866 2,523,878 16	103,348,351 5,830,263 - 10	3,408,318 321,925 - - 2	- - - - -	47,249,399 4,562,872 - -
227,972	(49,785,550)	(1,530,250)	109,178,624	3,730,245		51,812,271
(378,763)	(2,413,029)	(169,860)	(854,123)	(27,776)	- -	(636,435) -
(378,763)	(2,413,029)	(169,860)	(854,123)	(27,776)	-	(636,435)
(167) (607,019)	(3,778) (5,623,310)	(373) (402,589)	(233) (941,622)	-	-	(2,683)
(607,186)	(5,627,088)	(402,962)	(941,855)	-	-	(2,683)
(757,977)	(57,825,667)	(2,103,072)	107,382,646	3,702,469	-	51,173,153
(1,802)	(67,964)	- -	(807,341) (821)	(43,817)	- -	(528,395)
(759,779)	(57,893,631)	(2,103,072)	106,574,484	3,658,652	-	50,644,758

 $<sup>^3</sup>$ Sub-Fund liquidated on 17 November 2020.

	Notes	AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> USD	BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup> USD
Net assets attributable to holders of redeemable participating shares at the beginning of the year		-	-
Share transactions Issue of shares Redemption of shares	8	24,982,738 (2,456,004)	96,127,911 (9,628,944)
Net increase/(decrease) in net assets from share transactions	_	22,526,734	86,498,967
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	_	(2,351,809)	(2,226,366)
Net assets attributable to holders of redeemable participating shares at the end of the year	_	20,174,925	84,272,601

<sup>&</sup>lt;sup>1</sup> Sub-Fund launched on 15 February 2022. <sup>2</sup> Sub-Fund launched on 17 March 2022.

Statement of Changes in Net Assets Attributable to Holders of Redeemable Participating Shares (continued) For the year ended 31 December 2022

BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup> USD	BetaBuilders US Equity UCITS ETF USD	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders EUR Govt Bond UCITS ETF EUR	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR
2,215,712,293	-	18,720,150	28,316,883	44,817,843	141,147,145
893,185,796 (877,864,605)	21,516,307 (1,291,234)	7,101,163 (3,309,023)	21,074,625 (8,891,053)	40,959,699 (62,395,387)	34,607,495 (116,606,714)
15,321,191	20,225,073	3,792,140	12,183,572	(21,435,688)	(81,999,219)
229,520,680	(860,061)	(3,998,479)	(2,721,868)	(7,975,154)	(3,620,737)
2,460,554,164	19,365,012	18,513,811	37,778,587	15,407,001	55,527,189

The accompanying notes form an integral part of the financial statements.

 $<sup>^{\</sup>rm 3}$  Sub-Fund launched on 9 August 2022.

	Notes	BetaBuilders US Treasury Bond O-3 Months UCITS ETF USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD
Net assets attributable to holders of redeemable participating shares at the beginning of the year		30,383,990	142,898,289
Share transactions Issue of shares Redemption of shares	8	136,630,080 (72,316,590)	85,682,986 (132,174,186)
Net increase/(decrease) in net assets from share transactions	_	64,313,490	(46,491,200)
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	_	11,896,048	(4,249,791)
Net assets attributable to holders of redeemable participating shares at the end of the year	_	106,593,528	92,157,298

BetaBuilder US Treasury Bon UCITS ET USI	d China Equity (CTB) F UCITS ETF <sup>4</sup>	Carbon Transition Global Equity (CTB) UCITS ETF USD	China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup> USD	Climate Change Solutions UCITS ETF <sup>6</sup> USD	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR
104,457,24	7 -	45,732,641	-	-	38,888,351
368,516,51 (226,252,378		168,595,505 (2,305,234)	10,778,158 (181,003)	14,368,899 (2,178,488)	8,747,236 (22,070,484)
142,264,13	5,005,279	166,290,271	10,597,155	12,190,411	(13,323,248)
(35,236,946	(6,944)	(8,940,971)	(2,064,256)	1,197,669	(3,063,979)
211,484,43	6 4,998,335	203,081,941	8,532,899	13,388,080	22,501,124

<sup>&</sup>lt;sup>4</sup>Sub-Fund launched on 6 December 2022. <sup>5</sup>Sub-Fund launched on 15 February 2022. <sup>6</sup>Sub-Fund launched on 14 June 2022.

	Notes	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR
Net assets attributable to holders of redeemable participating shares at the beginning of the year		191,180,145	1,117,147,832
Share transactions Issue of shares Redemption of shares	8 8	36,666,871 (79,340,608)	647,645,647 (576,345,990)
Net increase/(decrease) in net assets from share transactions	_	(42,673,737)	71,299,657
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	_	(25,849,158)	(5,308,183)
Net assets attributable to holders of redeemable participating shares at the end of the year	_	122,657,250	1,183,139,306

	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup> EUR	GBP Ultra-Short Income UCITS ETF GBP	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup> USD	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
	228,604,496	-	110,977,507	667,692,031	58,997,492	242,350,911
	218,380,655 (106,834,173)	93,428,134 (4,800,553)	45,888,852 (35,436,888)	377,676,824 (27,198,236)	45,891,015 (8,587,840)	247,268,830 (235,268,862)
_	111,546,482	88,627,581	10,451,964	350,478,588	37,303,175	11,999,968
_	(24,808,791)	5,273,323	(396,745)	(184,749,058)	(9,110,559)	(37,514,762)
_	315,342,187	93,900,904	121,032,726	833,421,561	87,190,108	216,836,117

<sup>&</sup>lt;sup>7</sup>Sub-Fund launched on 26 April 2022. <sup>8</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

	Notes	Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>9</sup> USD
Net assets attributable to holders of redeemable participating shares at the beginning of the year		391,281,836	-
Share transactions Issue of shares Redemption of shares	8	1,121,365,926 (270,154,280)	70,629,565 (13,386,175)
Net increase/(decrease) in net assets from share transactions	_	851,211,646	57,243,390
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	_	(132,145,132)	510,549
Net assets attributable to holders of redeemable participating shares at the end of the year	=	1,110,348,350	57,753,939

<sup>&</sup>lt;sup>9</sup>Sub-Fund launched on 29 March 2022.

RMB Ultra-Short Income UCITS ETF <sup>10</sup> USD	UK Equity Core UCITS ETF <sup>11</sup> GBP	US Equity Multi-Factor UCITS ETF <sup>12</sup> USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Ultra-Short Income UCITS ETF USD
-	-	16,488,468	961,999,094	82,253,719	511,665,792	264,100,988
65,297,354 (10,874,387)	12,054,661 (1,010,012)	(15,307,830)	1,585,138,298 (347,280,839)	65,196,066 (40,711,608)	196,888,503 (219,336,002)	139,098,286 (178,977,261)
 54,422,967	11,044,649	(15,307,830)	1,237,857,459	24,484,458	(22,447,499)	(39,878,975)
(4,911,264)	375,857	(1,180,638)	(200,454,023)	(17,153,892)	(107,165,386)	988,081
 49,511,703	11,420,506	-	1,999,402,530	89,584,285	382,052,907	225,210,094

 <sup>&</sup>lt;sup>10</sup>Sub-Fund launched on 1 March 2022.
 <sup>11</sup>Sub-Fund launched on 14 June 2022.
 <sup>12</sup>Sub-Fund liquidated on 23 November 2022.

	Notes	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR	BetaBuilders EUR Govt Bond UCITS ETF EUR
Net assets attributable to holders of redeemable participating shares at the beginning of the year		75,446,072	19,628,963
Share transactions Issue of shares Redemption of shares	8 8	92,525,417 (26,113,865)	73,543,249 (46,835,518)
Net increase/(decrease) in net assets from share transactions		66,411,552	26,707,731
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations	_	(710,479)	(1,518,851)
Net assets attributable to holders of redeemable participating shares at the end of the year	_	141,147,145	44,817,843

BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders US Equity UCITS ETF USD	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>1</sup> USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond UCITS ETF USD
27,792,228	8,381,631	2,039,407,864	-	199,904,305	113,268,783
15,880,696 (14,670,706)	15,457,642 (8,420,360)	595,677,743 (462,961,442)	30,438,548	13,319,405 (69,276,978)	60,370,299 (65,594,879)
1,209,990	7,037,282	132,716,301	30,438,548	(55,957,573)	(5,224,580)
(685,335)	3,301,237	43,588,128	(54,558)	(1,048,443)	(3,586,956)
28,316,883	18,720,150	2,215,712,293	30,383,990	142,898,289	104,457,247

<sup>&</sup>lt;sup>1</sup> Sub-Fund launched on 17 February 2021.

	Notes	Carbon Transition Global Equity (CTB) UCITS ETF USD	Equity Long-Short UCITS ETF <sup>2</sup> USD
Not accept attributable to helders of redoomable participating charge at the heginning of the year		20 450 255	
Net assets attributable to holders of redeemable participating shares at the beginning of the year		28,458,255	-
Share transactions Issue of shares Redemption of shares	8	10,005,114	-
Net increase/(decrease) in net assets from share transactions		10,005,114	-
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations		7,269,272	
Net assets attributable to holders of redeemable participating shares at the end of the year		45,732,641	

<sup>&</sup>lt;sup>2</sup>Sub-Fund liquidated on 19 June 2020.

	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	GBP Ultra-Short Income UCITS ETF GBP	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF USD
	36,478,522	179,318,077	692,130,205	165,491,894	109,142,725	575,544,212
	15,474,479 (12,939,360)	15,368,241 (1,289,233)	731,890,364 (302,419,420)	49,497,906 (30,534,222)	15,780,176 (13,572,171)	129,992,037 (15,321,571)
	2,535,119	14,079,008	429,470,944	18,963,684	2,208,005	114,670,466
_	(125,290)	(2,216,940)	(4,453,317)	44,148,918	(373,223)	(22,522,647)
	38,888,351	191,180,145	1,117,147,832	228,604,496	110,977,507	667,692,031

	Notes	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
Net assets attributable to holders of redeemable participating shares at the beginning of the year		28,309,274	195,815,633
Share transactions Issue of shares Redemption of shares	8 8	29,074,738 (5,829,600)	90,356,928 (45,705,038)
Net increase/(decrease) in net assets from share transactions	-	23,245,138	44,651,890
Net (decrease)/increase in net assets attributable to holders of redeemable participating shares from operations		7,443,080	1,883,388
Net assets attributable to holders of redeemable participating shares at the end of the year		58,997,492	242,350,911

Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Managed Futures UCITS ETF <sup>3</sup> USD	US Equity Multi-Factor UCITS ETF USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Ultra-Short Income UCITS ETF USD
138,018,798	-	12,829,816	262,115,289	117,041,731	741,901,686	165,180,011
276,610,035 (73,991,755)		-	668,793,250 (75,483,929)	30,485,688 (63,170,628)	271,356,596 (443,698,859)	240,757,287 (141,076,531)
202,618,280	-	-	593,309,321	(32,684,940)	(172,342,263)	99,680,756
50,644,758	-	3,658,652	106,574,484	(2,103,072)	(57,893,631)	(759,779)
391,281,836	-	16,488,468	961,999,094	82,253,719	511,665,792	264,100,988

<sup>&</sup>lt;sup>3</sup>Sub-Fund liquidated on 17 November 2020.

	AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> USD	BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup> USD
Cash flows from operating activities  Net (decrease)/increase in net assets attributable to holders of redeemable participating shares resulting from operations	(2,351,809)	(2,226,366)
Adjustments to reconcile net (loss)/gain to net cash (used in)/provided by operating activities:		
Distributions	101,920	188,268
(Increase)/decrease in operating assets: (Increase)/decrease in financial assets at fair value through profit or loss (Increase) in cash collateral received	(19,728,899)	(83,215,167)
(Increase)/decrease in amounts due from brokers (Increase)/decrease in dividend receivable (Increase)/decrease in interest receivable (Increase)/decrease in securities sold awaiting settlement (Increase)/decrease in other receivables	(116,685) (35,455) -	(1,097,156) (1,877,145)
Increase/(decrease) in operating liabilities: Increase/(decrease) in financial liabilities at fair value through profit or loss Increase/(decrease) in amounts due to brokers Increase/(decrease) in fees and expenses payable Increase/(decrease) in securities purchased awaiting settlement (Decrease)/increase in other payables	8,017 1,016	588,967 - 33,479 1,504,496
Net cash (used in)/provided by operating activities	(22,121,895)	(86,100,624)
Cash flows from financing activities Proceeds from issue of redeemable participating shares Redemptions of shares Distributions paid	24,967,757 (2,456,004) (101,920)	96,127,911 (9,628,944) (188,268)
Net cash provided by/(used in) financing activities	22,409,833	86,310,699
Net increase/(decrease) in cash for the year Cash and Cash equivalents at the beginning of the year	287,938	210,075
Cash and Cash equivalents at the end of the year	287,938	210,075
Supplementary information Dividend received Interest received Interest paid	410,858 2,989 (264)	17 142,101 (552)

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022. <sup>2</sup>Sub-Fund launched on 17 March 2022.

Statement of Cash Flows (continued)

For the year ended 31 December 2022

BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup> USD	BetaBuilders US Equity UCITS ETF USD	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders EUR Govt Bond UCITS ETF EUR	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR
229,520,680	(860,061)	(3,998,479)	(2,721,868)	(7,975,154)	(3,620,737)
-	17,566	29,466	260,453	-	-
(257,457,052) (18,649,152)	(19,278,557) - (830)	201,272 (6,299) (2,180)	(9,393,536) - -	29,265,503 - -	85,023,307 - -
(333,090) (76,881,506) (22,837)	(19,310) - (8,483) (10)	(4,602) - 4,750 (90)	(60,964) (3,362,138)	151,197 (354,083)	616,492 (2,299,286) (198)
25,212,250	763 -	1,303	- -	- -	- -
(5,947) (22,826,539) 18,651,151	4,573 - -	(16) (4,708) 6,299	342 3,321,206 -	(4,866) 38,005 (77)	(5,937) 2,306,734 -
(102,792,042)	(20,144,349)	(3,773,284)	(11,956,505)	21,120,525	82,020,375
893,185,796 (892,535,903) -	21,516,095 (1,291,234) (17,566)	7,101,163 (3,309,023) (29,466)	21,074,625 (8,891,053) (226,824)	40,959,278 (62,395,387) -	34,607,495 (116,606,714)
649,893	20,207,295	3,762,674	11,956,748	(21,436,109)	(81,999,219)
(102,142,149) 103,892,673	62,946	(10,610) 57,539	243 26,082	(315,584) 324,721	21,156 21,706
1,750,524	62,946	46,929	26,325	9,137	42,862
- 32,905,753 (19,550)	112,360 - -	289,874 398 (4)	- 272,573 -	- 282,114 (268)	616,492 (366)

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 9 August 2022.

	BetaBuilders US Treasury Bond O-3 Months UCITS ETF USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD
Cash flows from operating activities  Net (decrease)/increase in net assets attributable to holders of redeemable participating shares resulting from operations	11,896,048	(4,249,791)
Adjustments to reconcile net (loss)/gain to net cash (used in)/provided by operating activities:		
Distributions	-	-
(Increase)/decrease in operating assets: (Increase)/decrease in financial assets at fair value through profit or loss (Increase) in cash collateral received (Increase)/decrease in amounts due from brokers (Increase)/decrease in dividend receivable	(76,970,940) (4,804,400)	50,776,178 - -
(Increase)/decrease in interest receivable (Increase)/decrease in securities sold awaiting settlement (Increase)/decrease in other receivables	(103,089) (17,821,336) (3,322)	(3,798) 2,130,654
Increase/(decrease) in operating liabilities: Increase/(decrease) in financial liabilities at fair value through profit or loss Increase/(decrease) in amounts due to brokers Increase/(decrease) in fees and expenses payable	2,550,556 - 14,777	33,708 - (7,006)
Increase/(decrease) in securities purchased awaiting settlement (Decrease)/increase in other payables	14,481,912 4,804,400	(2,166,539)
Net cash (used in)/provided by operating activities	(65,955,394)	46,513,406
Cash flows from financing activities Proceeds from issue of redeemable participating shares Redemptions of shares Distributions paid	136,630,080 (72,316,590) -	85,682,986 (132,174,186)
Net cash provided by/(used in) financing activities	64,313,490	(46,491,200)
Net increase/(decrease) in cash for the year Cash and Cash equivalents at the beginning of the year	(1,641,904) 1,714,296	22,206 44,029
Cash and Cash equivalents at the end of the year	72,392	66,235
Supplementary information Dividend received Interest received Interest paid	30,834 1,735,305 (3,540)	1,364,538 (8)

EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	Climate Change Solutions UCITS ETF <sup>6</sup> USD	China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup> USD	Carbon Transition Global Equity (CTB) UCITS ETF USD	Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup> USD	BetaBuilders US Treasury Bond UCITS ETF USD
(3,063,979)	1,197,669	(2,064,256)	(8,940,971)	(6,944)	(35,236,946)
-	-	71,420	-	-	-
16,321,216 - 26,390	(13,031,317)	(8,486,510)	(157,207,629) - (11,604)	(4,984,786) - -	(105,941,420) (731,118)
72,794 256,237	(4,496) - - -	(4,498)	(74,813) - (424)	(4,419)	(925,568) (2,335,220) (139)
(9,500)	-	-	20,552	-	155,621
(3,785) (281,711)	12,318 22,598 -	5,411 - -	7,584 70,542 -	1,143 4,989 8,945	20,103 2,013,560 731,753
13,317,662	(11,803,228)	(10,478,433)	(166,136,763)	(4,981,072)	(142,249,374)
8,747,236 (22,070,484)	14,368,181 (2,178,488)	10,778,158 (181,003) (71,420)	168,593,235 (2,305,234)	5,005,279 - -	368,516,513 (226,252,378) -
(13,323,248)	12,189,693	10,525,735	166,288,001	5,005,279	142,264,135
(5,586) 39,185	386,465 -	47,302 -	151,238 53,858	24,207	14,761 202,278
33,599	386,465	47,302	205,096	24,207	217,039
302,373 (518)	48,164 1,053	216,321 1,009	977,832 6,143	629 330	3,689 3,822,114 (1,821)

<sup>&</sup>lt;sup>4</sup>Sub-Fund launched on 6 December 2022. <sup>5</sup>Sub-Fund launched on 15 February 2022. <sup>6</sup>Sub-Fund launched on 14 June 2022.

	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR
Cash flows from operating activities  Net (decrease)/increase in net assets attributable to holders of redeemable participating shares resulting from operations	(25.849.158)	(5,308,183)
Adjustments to reconcile net (loss)/gain to net cash (used in)/provided by operating activities:	(23,047,130)	(3,300,103)
Distributions	-	-
(Increase)/decrease in operating assets:		
(Increase)/decrease in financial assets at fair value through profit or loss	67,999,393	87,003,672
(Increase) in cash collateral received	-	-
(Increase)/decrease in amounts due from brokers	248,015	=
(Increase)/decrease in dividend receivable	-	- 004.014
(Increase)/decrease in interest receivable (Increase)/decrease in securities sold awaiting settlement	376,162 (712,893)	894,016 (283,216)
(Increase)/decrease in securities sold awaiting settlement	(/12,893)	(1,580)
(merease)/secrease in other receivables	J <del>-1</del>	(1,500)
Increase/(decrease) in operating liabilities:		
Increase/(decrease) in financial liabilities at fair value through profit or loss	362,519	845,860
Increase/(decrease) in amounts due to brokers	-	-
Increase/(decrease) in fees and expenses payable	(19,311)	1,077
Increase/(decrease) in securities purchased awaiting settlement (Decrease)/increase in other payables	220,393	6,841,069
(becrease)/increase in other payables	-	-
Net cash (used in)/provided by operating activities	42,625,154	89,992,715
,,,, ,, ,,		07,772,713
Cash flows from financing activities		
Proceeds from issue of redeemable participating shares	36,666,871	643,695,315
Redemptions of shares	(79,340,608)	(576,345,990)
Distributions paid	-	-
Net cash provided by/(used in) financing activities	(42,673,737)	67,349,325
Net increase/(decrease) in cash for the year	(48,583)	157,342,040
Cash and Cash equivalents at the beginning of the year	299,082	72,106,877
Cash and Cash equivalents at the end of the year	250,499	229,448,917
Supplementary information		
Dividend received	-	309
Interest received	2,047,028	4,144,693
Interest paid	(3,592)	-

Global High Yield Corporat Bond Multi-Facto UCITS ET USI	Global Equity Multi-Factor UCITS ETF USD	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup> USD	GBP Ultra-Short Income UCITS ETF GBP	Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup> EUR	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR
(37,514,762	(9,110,559)	(184,749,058)	(396,745)	5,273,323	(24,808,791)
4,982,60	-	105,536	969,320	78,961	17,467
26,273,19 (1,585,532	(28,039,297)	(160,194,346)	22,200,332	(93,221,706)	(85,610,295)
	(9,980) (117,383)	48,200 (938,445)	-	(170,432)	- (485,534)
96,52 (8,286,113 (1,047	2,302 (254)	- - -	135,078 (27,160) -	- - -	- - -
264,25	4,713	-	374,976	-	=
(23,779 11,940,59 1,585,53	9,400 (3,440,599)	14,251 562,013 (166,496)	319 (10,174)	35,517 1,386	24,219 (277,865)
(2,268,539	(40,701,657)	(345,318,345)	23,245,946	(88,002,951)	(111,140,799)
239,404,20 (230,767,393 (4,982,606	45,892,015 (8,587,840)	377,642,172* (27,198,236) (105,536)	45,888,852 (35,436,888) (826,531)	93,428,134 (4,800,553) (78,961)	218,380,655 (106,834,173) (17,467)
3,654,20	37,304,175	350,338,400	9,625,433	88,548,620	111,529,015
1,385,66· 1,635,03	(3,397,482) 3,535,780	5,020,055 5,001,489	32,871,379 27,357,783	545,669 -	388,216 1,763,203
3,020,69	138,298	10,021,544	60,229,162	545,669	2,151,419
9,30 12,203,77	2,450,086 1,801	25,987,209 15,925 (8,277)	118,624 1,495,250 (12)	449,828 34 (856)	8,733,539 - (1,458)

<sup>\*</sup>Includes non-cash transaction in amount of USD 43,889,966 relating to merger of JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

7Sub-Fund launched on 26 April 2022.

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<sup>\*\*</sup>SIPMOrgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

	Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>9</sup> USD
Cash flows from operating activities  Net (decrease)/increase in net assets attributable to holders of redeemable participating shares resulting from operations	(132,145,132)	510,549
Adjustments to reconcile net (loss)/gain to net cash (used in)/provided by operating activities:		
Distributions	12,200	125,130
(Increase)/decrease in operating assets: (Increase)/decrease in financial assets at fair value through profit or loss (Increase) in cash collateral received	(715,915,566)	(57,387,369)
(Increase)/decrease in amounts due from brokers (Increase)/decrease in dividend receivable (Increase)/decrease in interest receivable	34,960 (887,784)	(73,004)
(Increase)/decrease in securities sold awaiting settlement (Increase)/decrease in other receivables	(4,695)	(87)
Increase/(decrease) in operating liabilities: Increase/(decrease) in financial liabilities at fair value through profit or loss Increase/(decrease) in amounts due to brokers	1,950,054	33,571 -
Increase/(decrease) in fees and expenses payable Increase/(decrease) in securities purchased awaiting settlement (Decrease)/increase in other payables	279,630 5,585,399 -	21,665 - 200,690
Net cash (used in)/provided by operating activities	(841,090,934)	(56,568,855)
Cash flows from financing activities Proceeds from issue of redeemable participating shares Redemptions of shares Distributions paid	1,119,870,162 (268,658,704) (12,200)	70,629,565 (13,386,175) (125,130)
Net cash provided by/(used in) financing activities	851,199,258	57,118,260
Net increase/(decrease) in cash for the year Cash and Cash equivalents at the beginning of the year	10,108,324 4,605,547	549,405
Cash and Cash equivalents at the end of the year	14,713,871	549,405
Supplementary information Dividend received Interest received Interest paid	15,465,537 14,253 (504)	570,831 1,110

<sup>&</sup>lt;sup>9</sup>Sub-Fund launched on 29 March 2022.

The accompanying notes form an integral part of the financial statements.

USD Ultra-Shoi Incom UCITS ET US	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Corporate Bond search Enhanced Index (ESG) UCITS ETF USD	US Research Enhanced Index Equity Re (ESG) UCITS ETF USD	US Equity Multi-Factor UCITS ETF <sup>12</sup> USD	UK Equity Core UCITS ETF <sup>11</sup> GBP	RMB Ultra-Short Income UCITS ETF <sup>10</sup> USD
988,08	(107,165,386)	(17,153,892)	(200,454,023)	(1,180,638)	375,857	(4,911,264)
1,391,91	3,794,082	50,982	903,272	=	70,794	436,726
48,146,80	122,191,270	(8,451,319)	(1,033,504,504)	16,417,301	(11,213,326)	(46,146,782)
(34,595	(726,650)	19,289	-	6,289	-	<del>-</del>
(3.,57.	-	-	(1,133,470)	3,596	(32,390)	-
(285,179 2,214,03	953,107 (7,150,984) (35,931)	(265,915) (1,652,634) (18)	- - -	-	- - -	(607,159) - -
17,93	(932,053)	(3,097)	86,461	-		-
(66,586 (25,910	(103,457) 13,976,225	418 (413,909)	405,146	(3,439)	932 4,663	22,275 -
	613,593	-	1,161,261	782	308,395	-
52,346,49	25,413,816	(27,870,095)	(1,232,535,857)	15,243,891	(10,485,075)	(51,206,204)
139,098,28 (186,309,83 (1,166,693	196,888,503 (219,336,002) (3,975,138)	65,194,336 (38,606,710) (50,982)	1,585,138,298 (347,280,839) (903,272)	(15,307,830)	12,054,661 (1,010,012) (70,794)	65,297,354 (10,874,387) (412,986)
(48,378,238	(26,422,637)	26,536,644	1,236,954,187	(15,307,830)	10,973,855	54,009,981
3,968,26 7,876,24	(1,008,821) 1,885,869	(1,333,451) 284,556	4,418,330 1,819,938	(63,939) 53,897	488,780	2,803,777
11,844,50	877,048	(1,048,895)	6,238,268	(10,042)	488,780	2,803,777
245,88 3,219,00 (636	19,379 22,338,015 (2,128)	7,167 2,562,148 (220)	20,882,836 388 (686)	344,280 1,015 (83)	174,741 574 (2)	- 480,881 (13)

 <sup>&</sup>lt;sup>10</sup>Sub-Fund launched on 1 March 2022.
 <sup>11</sup>Sub-Fund launched on 14 June 2022.
 <sup>12</sup>Sub-Fund liquidated on 23 November 2022.

	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR	BetaBuilders EUR Govt Bond UCITS ETF EUR
Cash flows from operating activities  Net (decrease)/increase in net assets attributable to holders of redeemable participating shares resulting from operations	(710,479)	(1,518,851)
Adjustments to reconcile net (loss)/gain to net cash (used in)/provided by operating activities:		
Distributions	-	-
(Increase)/decrease in operating assets: (Increase)/decrease in financial assets at fair value through profit or loss Decrease/(increase) in amounts due from brokers (Increase) in dividend receivable (Increase)/decrease in interest receivable Decrease/(increase) in securities sold awaiting settlement Decrease/(increase) in other receivables	(65,386,569) - (340,336) 2,547,155	(24,966,930) - - (137,960) 223,885
(Decrease)/increase in operating liabilities: Increase/(decrease) in financial liabilities at fair value through profit or loss Increase in amounts due to brokers (Decrease)/increase in fees and expenses payable (Decrease)/increase in securities purchased awaiting settlement (Decrease)/increase in other payables	(789) (2,552,433)	3,732 79,982 (187)
Net cash (used in)/provided by operating activities	(66,443,451)	(26,316,329)
Cash flows from financing activities Proceeds from issue of redeemable participating shares Redemptions of shares Distributions paid	92,525,417 (26,113,865)	73,543,249 (46,835,518) -
Net cash provided by/(used in) financing activities	66,411,552	26,707,731
Net (decrease)/increase in cash for the year Cash and Cash equivalents at the beginning of the year	(31,899) 53,605	391,402 (66,681)
Cash and Cash equivalents at the end of the year	21,706	324,721
Supplementary information Dividend received Interest received Interest paid	(340,336) (724)	(117,601) (741)

Statement of Cash Flows (continued)

For the year ended 31 December 2021

BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders US Equity UCITS ETF USD	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>1</sup> USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond UCITS ETF USD
(685,335)	3,301,237	43,588,128	(54,558)	(1,048,443)	(3,586,956)
38,204	19,181	-	-	-	-
(548,483) - - 25,648 271,653	(10,297,701) 726 (4,428) - (4,750) 3	(170,344,500) - - 370,626 211,159,820 (599)	(30,470,505) - (4,903) (7,229,845)	56,624,248 - - 303,669 262,950	10,405,047 - - 64,520 (828,307)
-	-	2,357,977	91,609	(183)	(219,954)
490 (267,072)	764 4,708	73,174 (225,385,153)	4,796 8,939,154	(13,842) (383,058)	(3,427) (494,427)
(1,164,895)	(6,980,260)	(138,180,527)	(28,724,252)	55,745,341	5,336,496
15,880,696 (14,670,706) (37,339)	15,458,321 (8,420,360) (19,181)	595,677,743 (448,290,144) -	30,438,548	13,319,405 (69,276,978) -	60,370,299 (65,594,879) -
1,172,651	7,018,780	147,387,599	30,438,548	(55,957,573)	(5,224,580)
7,756 18,326	38,520 19,019	9,207,072 94,685,601	1,714,296	(212,232) 256,261	111,916 90,362
26,082	57,539	103,892,673	1,714,296	44,029	202,278
- 87,155 -	187,365 - (7)	- 1,618,835 (18,188)	39 65 -	- 948,600 -	160 1,473,758 (74)

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 17 February 2021.

	Carbon Transition Global Equity (CTB) UCITS ETF USD	Equity Long-Short UCITS ETF <sup>2</sup> USD
Cash flows from operating activities  Net (decrease)/increase in net assets attributable to holders of redeemable participating shares resulting from operations	7,269,272	-
Adjustments to reconcile net (loss)/gain to net cash (used in)/provided by operating activities:		
Distributions	-	-
(Increase)/decrease in operating assets: (Increase)/decrease in financial assets at fair value through profit or loss Decrease/(increase) in amounts due from brokers (Increase) in dividend receivable (Increase)/decrease in interest receivable Decrease/(increase) in securities sold awaiting settlement Decrease/(increase) in other receivables	(17,264,742) 5,378 (11,103) -	1,064
(Decrease)/increase in operating liabilities: Increase/(decrease) in financial liabilities at fair value through profit or loss Increase in amounts due to brokers (Decrease)/increase in fees and expenses payable (Decrease)/increase in securities purchased awaiting settlement (Decrease)/increase in other payables	- - 6,757 - -	- - - (66,176)
Net cash (used in)/provided by operating activities	(9,994,438)	(65,112)
Cash flows from financing activities Proceeds from issue of redeemable participating shares Redemptions of shares Distributions paid	10,005,114	- - - -
Net cash provided by/(used in) financing activities	10,005,114	
Net (decrease)/increase in cash for the year Cash and Cash equivalents at the beginning of the year	10,676 43,182	(65,112) 65,112
Cash and Cash equivalents at the end of the year	53,858	_
Supplementary information Dividend received Interest received Interest paid	764,560 - (114)	-

<sup>&</sup>lt;sup>2</sup>Sub-Fund liquidated on 19 June 2020.

Statement of Cash Flows (continued)

For the year ended 31 December 2021

EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	GBP Ultra-Short Income UCITS ETF GBP	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF USD
(125,290)	(2,216,940)	(4,453,317)	44,148,918	(373,223)	(22,522,647)
-	-	-	-	346,910	-
(2,532,328) (9,033) - 36,991 (773,368)	(12,392,915) (146,512) - 87,164 (1,852,140) (34)	(424,271,476) - (1,037,145) (140,406)	(62,747,072) - (93,051) - -	6,523,833 - (130,506) -	(90,243,575) (48,200) (349,671)
9,500 1,440 784,213	175,173 - 5,651 1,896,509	824,124 - 63,278 5,136,772	- 28,960 282,607 -	(165,401) - 349 10,174	120,484 36 387,083
(2,607,875)	(14,444,044)	(423,878,170)	(18,379,638)	6,212,136	(112,656,490)
15,474,479 (12,939,360)	15,368,241 (1,289,233)	731,890,364 (302,419,420)	49,497,906 (30,534,222)	15,780,176 (13,572,171) (363,430)	129,992,037 (15,321,571)
2,535,119	14,079,008	429,470,944	18,963,684	1,844,575	114,670,466
(72,756) 111,941	(365,036) 664,118	5,592,774 66,514,103	584,046 1,179,157	8,056,711 19,301,072	2,013,976 2,987,513
39,185	299,082	72,106,877	1,763,203	27,357,783	5,001,489
182,469 (1,465)	1,742,058 (8,002)	(33,370) (8,228)	5,738,512 19 (6,494)	4,993 391,351 (219)	17,769,497 1,211 (1,538)

Statement of Cash Flows (continued)

For the year ended 31 December 2021

	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
Cash flows from operating activities  Net (decrease)/increase in net assets attributable to holders of redeemable participating shares resulting from operations	7,443,080	1,883,388
Adjustments to reconcile net (loss)/gain to net cash (used in)/provided by operating activities:		
Distributions	-	3,251,898
(Increase)/decrease in operating assets: (Increase)/decrease in financial assets at fair value through profit or loss Decrease/(increase) in amounts due from brokers (Increase) in dividend receivable (Increase)/decrease in interest receivable Decrease/(increase) in securities sold awaiting settlement Decrease/(increase) in other receivables	(30,594,819) 2,662 (51,532) - 22,754 5	(46,419,513) - - - (858,717) - (626)
(Decrease)/increase in operating liabilities: Increase/(decrease) in financial liabilities at fair value through profit or loss Increase in amounts due to brokers (Decrease)/increase in fees and expenses payable (Decrease)/increase in securities purchased awaiting settlement (Decrease)/increase in other payables	- 8,045 3,440,599 -	167,691 - 32,454 (284,104) (313,857)
Net cash (used in)/provided by operating activities	(19,729,206)	(42,541,386)
Cash flows from financing activities Proceeds from issue of redeemable participating shares Redemptions of shares Distributions paid	29,073,468 (5,829,600)	90,356,928 (45,705,038) (3,251,898)
Net cash provided by/(used in) financing activities	23,243,868	41,399,992
Net (decrease)/increase in cash for the year Cash and Cash equivalents at the beginning of the year	3,514,662 21,118	(1,141,394) 2,776,424
Cash and Cash equivalents at the end of the year	3,535,780	1,635,030
Supplementary information Dividend received Interest received Interest paid	1,122,866 - (92)	1,010 10,870,430 (3,531)

Statement of Cash Flows (continued)

For the year ended 31 December 2021

Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Managed Futures UCITS ETF <sup>3</sup> USD	US Equity Multi-Factor UCITS ETF USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Ultra-Short Income UCITS ETF USD
50,644,758	-	3,658,652	106,574,484	(2,103,072)	(57,893,631)	(759,779)
-	-	-	941,622	402,589	5,623,310	607,019
(256,140,606) 302,355 (157,613) -	- - - - -	(3,612,088) (1,406) (1,836)	(698,312,560) 18,990 (281,343) - - 732	33,504,158 11,734 - 229,006 (707,764)	226,028,433 - 3,104,892 360,228 (321)	(106,163,430) - - (382,091) (2,214,031)
(5,641) - 102,803 716,955 -	(11,698) - (2,470)	1,279 (800)	160,491 -	128,423 - (13,218) 797,824	198,907 - (106,616) (507,429) (695,559)	66,586 43,108 - (13)
(204,536,989)	(14,168)	43,842	(590,897,584)	32,249,680	176,112,214	(108,802,631)
276,610,035 (73,991,755)	- - -	:	668,793,250 (75,483,929) (941,622)	30,488,727 (63,170,628) (402,589)	271,356,596 (443,698,859) (5,706,757)	240,757,287 (133,743,961) (651,067)
202,618,280	-	-	592,367,699	(33,084,490)	(178,049,020)	106,362,259
(1,918,709) 6,524,256	(14,168) 14,168	43,842 10,055	1,470,115 349,823	(834,810) 1,119,366	(1,936,806) 3,822,675	(2,440,372) 10,316,613
4,605,547	-	53,897	1,819,938	284,556	1,885,869	7,876,241
4,405,259 - (2,683)	- - -	320,089 - -	5,548,920 10 (233)	866 2,752,900 (373)	2,536 30,372,312 (3,778)	17,968 1,253,324 (167)

<sup>&</sup>lt;sup>3</sup>Sub-Fund liquidated on 17 November 2020.

The accompanying notes form an integral part of the financial statements.

Notes to the Audited Financial Statements For the year ended 31 December 2022

#### 1. Organisation

The JPMorgan ETFs (Ireland) ICAV (the "Fund" or the "ICAV") was registered in Ireland pursuant to the Irish Collective Asset-management Vehicles Act 2015 on 18 July 2017 under registration number C171821 and is authorized by the Central Bank of Ireland (the "Central Bank") as an Undertaking for Collective Investments in Transferable Securities ("UCITS") pursuant to the European Communities (Undertakings for Collective Investment in Transferable Securities) Regulations, 2011 (as amended) ("UCITS Regulations").

The ICAV has appointed JPMorgan Asset Management (Europe) S.à r.l., (the "Management Company") as its management company pursuant to the management agreement signed on 28 September 2017. The Management Company was incorporated in Luxembourg on 20 April 1988. The Management Company is regulated by the Commission de Surveillance du Secteur Financier in Luxembourg and authorised to act as a management company to UCITS and as an Alternative Investment Fund Manager ("AIFM").

The objective of the ICAV is to invest in transferable securities in accordance with the UCITS Regulations. The ICAV has been structured as an umbrella fund with segregated liability between Sub-Funds. Each Sub-Fund will bear its own liabilities, under applicable Irish law, none will have access to the assets of a Sub-Fund in satisfaction of a liability of any other Sub-Fund. The Directors may establish Sub-Funds that will seek to track an Index ("Index Tracking Sub-Funds") or will be managed actively by the Management Company to seek to achieve a specific investment objective, which may include outperforming an Index ("Actively Managed Sub-Funds").

The portfolio of assets maintained for each Sub-Fund will be invested in accordance with the investment objectives and policies applicable to such Sub-Fund as specified in the Prospectus and Supplements. Shares may be divided into different Share Classes to accommodate, amongst other things, different dividend policies, charges, fee arrangements (including different fee structures), currencies, or to provide for foreign exchange hedging in accordance with the policies and requirements of the Central Bank from time to time.

As at 31 December 2022, there were thirty-two registered Sub-Funds:

#### Actively Managed Sub-Funds:

- · JPMorgan ETFs (Ireland) ICAV AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF (launched on 15 February 2022)
- · JPMorgan ETFs (Ireland) ICAV China A Research Enhanced Index Equity (ESG) UCITS ETF (launched on 15 February 2022)
- · JPMorgan ETFs (Ireland) ICAV Climate Change Solutions UCITS ETF (launched on 14 June 2022)
- · JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF (launched on 6 December 2018)
- · JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF (launched on 6 December 2018)
- JPMorgan ETFs (Ireland) ICAV EUR Ultra-Short Income UCITS ETF (launched on 6 June 2018)
- · JPMorgan ETFs (Ireland) ICAV Europe Research Enhanced Index Equity (ESG) UCITS ETF (launched on 10 October 2018)
- · JPMorgan ETFs (Ireland) ICAV Eurozone Research Enhanced Index Equity (ESG) UCITS ETF (launched 26 on April 2022)
- · JPMorgan ETFs (Ireland) ICAV GBP Ultra-Short Income UCITS ETF (launched on 6 June 2018)
- · JPMorgan ETFs (Ireland) ICAV Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF\* (launched on 6 December 2018)
- · JPMorgan ETFs (Ireland) ICAV Global Research Enhanced Index Equity (ESG) UCITS ETF (launched on 10 October 2018)
- · JPMorgan ETFs (Ireland) ICAV Japan Research Enhanced Index Equity (ESG) UCITS ETF (launched 29 March 2022)
- JPMorgan ETFs (Ireland) ICAV RMB Ultra-Short Income UCITS ETF (launched on 1 March 2022)
- · JPMorgan ETFs (Ireland) ICAV UK Equity Core UCITS ETF (launched on 14 June 2022)
- · JPMorgan ETFs (Ireland) ICAV US Research Enhanced Index Equity (ESG) UCITS ETF (launched on 10 October 2018)
- · JPMorgan ETFs (Ireland) ICAV USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF (launched on 6 December 2018)
- · JPMorgan ETFs (Ireland) ICAV USD Ultra-Short Income UCITS ETF (launched on 15 February 2018)

#### Index Tracking Sub-Funds:

- · JPMorgan ETFs (Ireland) ICAV BetaBuilders China Aggregate Bond UCITS ETF (launched on 17 March 2022)
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF (launched on 15 February 2018)
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders EUR Govt Bond UCITS ETF (launched on 25 April 2019)
- JPMorgan ETFs (Ireland) ICAV BetaBuilders UK Gilt 1-5 yr UCITS ETF (launched on 6 June 2018)
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders US Equity UCITS ETF (launched on 3 April 2019)
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders US Small Cap Equity UCITS ETF (launched on 9 August 2022)
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond 0-1 yr UCITS ETF (launched on 9 July 2019)
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond 0-3 Months UCITS ETF (launched on 17 February 2021)
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond 1-3 yr UCITS ETF (launched on 6 June 2018)
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond UCITS ETF (launched on 25 April 2019)
- · JPMorgan ETFs (Ireland) ICAV Carbon Transition China Equity (CTB) UCITS ETF (launched on 6 December 2022)
- JPMorgan ETFs (Ireland) ICAV Carbon Transition Global Equity (CTB) UCITS ETF (launched on 4 November 2020)
- · JPMorgan ETFs (Ireland) ICAV Global Equity Multi-Factor UCITS ETF (launched on 9 July 2019)
- · JPMorgan ETFs (Ireland) ICAV Global High Yield Corporate Bond Multi-Factor UCITS ETF (launched on 4 February 2020)
- · JPMorgan ETFs (Ireland) ICAV USD Emerging Markets Sovereign Bond UCITS ETF (launched on 15 February 2018)

JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF was liquidated on 23 November 2022 and therefore is no longer available for subscription. JPMorgan ETFs (Ireland) ICAV - Equity Long-Short UCITS ETF and JPMorgan ETFs (Ireland) ICAV - Managed Futures UCITS ETF were liquidated on 19 June 2020 and 17 November 2020, respectively, and are in process of de-registration from the CBI. JPMorgan ETFs (Ireland) ICAV - Equity Long-Short UCITS ETF and JPMorgan ETFs (Ireland) ICAV - Managed Futures UCITS ETF had no activity during the year ended 31 December 2022 and therefore are not included in the financial statements as of 31 December 2022.

<sup>\*</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

### 2. Significant accounting policies

#### a. Basis of preparation

The financial statements are prepared in accordance with International Financial Reporting Standards as adopted by the European Union ("IFRS") and applied in accordance with the provisions of the ICAV Act 2015, the Central Bank (Supervision and Enforcement) Act 2013 Section 48 (1) UCITS Regulations 2015 (the "Central Bank Regulations"), and the UCITS Regulations.

The financial statements are prepared on a going concern basis and on a historical cost basis, as modified by the revaluation of financial assets and financial liabilities classified at fair value through profit or loss except for JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF which was liquidated on 23 November 2022. The Financial Statements for this Sub-Fund have been prepared on a non-going concern basis of accounting.

The year-end valuation as of 31 December 2022 was completed as at 30 December 2022 which was the last business day of the year. The year-end valuation as of 31 December 2021 was completed as at 31 December 2021 which was the last business day of the year.

The preparation of the financial statements in conformity with IFRS requires the Board to make estimates, assumptions and judgements that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting year. Although these estimates, assumptions and judgements are based on management's best knowledge of current events and actions, actual results may ultimately differ from those estimates, assumptions and judgements.

New Standards and amendments to existing standards

(i) Standards and amendments to existing standards effective 1 January 2022:

There are no standards, amendments to standards or interpretations that are effective for annual periods beginning on 1 January 2022 that have a material effect on the financial statements of the ICAV.

(ii) New standards, amendments and interpretations effective after 1 January 2022 and have not been early adopted:

A number of new standards, amendments to standards and interpretations are effective for annual periods beginning after 1 January 2022, and have not been early adopted in preparing these financial statements. None of these are expected to have a material effect on the financial statements of the ICAV.

#### b. Foreign currency

#### (i) Functional and presentational currency

The financial statements are presented in the currency of the primary economic environment in which the Sub-Funds operate (the "presentational currency"). The presentational currency is the same as the functional currency. The functional currencies for the Sub-Funds are presented in the following table:

Sub-Funds	Currency
AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD
BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup>	USD
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	EUR
BetaBuilders EUR Govt Bond UCITS ETF	EUR
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP
BetaBuilders US Equity UCITS ETF	USD
BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup>	USD
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	USD
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF	USD
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF	USD
BetaBuilders US Treasury Bond UCITS ETF	USD
Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup>	USD
Carbon Transition Global Equity (CTB) UCITS ETF	USD
China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD
Climate Change Solutions UCITS ETF <sup>5</sup>	USD
EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF	EUR
EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF	EUR
EUR Ultra-Short Income UCITS ETF	EUR
Europe Research Enhanced Index Equity (ESG) UCITS ETF	EUR
Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup>	EUR
GBP Ultra-Short Income UCITS ETF	GBP
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup>	USD
Global Equity Multi-Factor UCITS ETF	USD
Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD
Global Research Enhanced Index Equity (ESG) UCITS ETF	USD
Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup>	USD
RMB Ultra-Short Income UCITS ETF <sup>9</sup>	USD
UK Equity Core UCITS ETF <sup>5</sup>	GBP
US Equity Multi-Factor UCITS ETF <sup>10</sup>	USD
US Research Enhanced Index Equity (ESG) UCITS ETF	USD
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD
USD Emerging Markets Sovereign Bond UCITS ETF	USD
USD Ultra-Short Income UCITS ETF	USD
Sub-Fund launched on 15 February 2022. <sup>2</sup> Sub-Fund launched on 17 March 2022	

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022. <sup>3</sup>Sub-Fund launched on 9 August 2022.

<sup>&</sup>lt;sup>4</sup>Sub-Fund launched on 6 December 2022.

Sub-Fund launched on 14 June 2022.

<sup>&</sup>lt;sup>6</sup>Sub-Fund launched on 26 April 2022

<sup>&</sup>lt;sup>7</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

<sup>&</sup>lt;sup>8</sup>Sub-Fund launched on 29 March 2022.

<sup>&</sup>lt;sup>9</sup>Sub-Fund launched on 1 March 2022.

<sup>&</sup>lt;sup>10</sup>Sub-Fund liquidated on 23 November 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 2. Significant accounting policies (continued)

#### b. Foreign currency (continued)

#### (ii) Transactions and balances

Assets and liabilities denominated in other currencies are translated into the functional currency using exchange rates prevailing on the date of determination of the net asset value. Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the date of the transaction. Resulting gains and losses are recognised in the Statement of Comprehensive Income.

#### c. Financial Assets and Financial Liabilities at Fair Value through Profit or Loss

#### (i) Classification

The Fund classifies its investments as financial assets and financial liabilities at fair value through profit or loss.

Financial instruments include equities, collective investment schemes, bonds, futures and forwards. All derivatives in a net receivable position are reported as financial assets at fair value through profit or loss. All derivatives in a net payable position are reported as financial liabilities at fair value through the profit or loss.

Financial assets that are not at fair value through profit or loss include cash and cash equivalents, margin cash, accrued income, receivable from securities sold and other assets. Financial liabilities that are not at fair value through profit or loss include accrued expenses and other payables.

#### (ii) Recognition and derecognition

Purchases and sales of investments are accounted for on the day the trade transaction takes place. Financial assets are derecognised when the rights to receive cash flows from the investments have expired or the risks and rewards of ownership have all been substantially transferred. Financial liabilities are derecognised when the obligation specified in the contract is discharged, cancelled or expires. Realised gains and losses on disposals are reflected as "Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss" in the Statement of Comprehensive Income.

#### (iii) Measurement

#### Initial measurement

Financial assets at fair value through profit or loss are initially recognised at fair value which equates to cost at the date of recognition. All transaction costs for such instruments are recognised directly in the Statement of Comprehensive Income as incurred. Financial assets that are not at fair value through profit or loss are measured at amortised cost.

#### Subsequent measurement

Subsequent to initial measurement, the Sub-Funds re-measure financial assets and financial liabilities at fair value through profit or loss. Changes in the fair value are recognised in the Statement of Comprehensive Income.

#### (iv) Fair value estimation

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

#### Investments

Each asset which is quoted, listed or traded on or under the rules of any Recognised Market shall be valued using the index method of valuations. Accordingly, depending on the terms of the relevant index, such assets will be valued at (a) closing bid price, (b) last bid price, (c) last traded price, (d) closing mid-market price or (e) last mid-market price on the relevant Recognised Market at the Valuation Point, as specified in the Relevant Supplement. Prices will be obtained for this purpose by the Administrator from independent sources, such as recognised pricing services or brokers specialising in the relevant markets.

If the investment is normally quoted, listed or traded on or under the rules of more than one Recognised Market, the relevant Recognised Market shall be either (a) that which is the main market for the investment or (b) the market which the Management Company determines provides the fairest criteria in a value for the security, as the Management Company may determine.

If prices for quoted, listed or traded investment on the relevant Recognised Market are not available at the relevant time, or are unrepresentative of its fair value in the opinion of the Management Company, such investment shall be valued at such value as shall be estimated with care and in good faith as the probable realisation value of the investment by a competent professional person, firm or corporation appointed for such purpose by the Management Company and approved for the purpose by the Depositary. As at 31 December 2022, securities which were fair valued are identified with an asterisk (\*) in the Schedule of Investments. As at 31 December 2021, fair valued securities were held by JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF and JPMorgan ETFs (Ireland) ICAV - Global Research Enhanced Index Equity (ESG) UCITS ETF.

The value of any investment which is not normally quoted, listed or traded on or under the rules of a Recognised Market, will be valued at its probable realisation value estimated with care and in good faith by the Management Company or by a competent person, firm or corporation appointed by the Management Company and approved for such purpose by the Depositary.

Time deposits with credit institutions are valued at par which equates to fair value.

Investments in collective investment schemes are valued on the basis of the latest available net asset value per unit or share as published by the collective investment scheme. The change in the net asset value of these units is recognised within "Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss" in the Statement of Comprehensive Income.

### Forward Currency Contracts

Unrealised gains or losses on outstanding Forward Currency Contracts are valued on the basis of currency exchange rates prevailing at the relevant valuation date. The changes in such amounts are included in the Statement of Comprehensive Income under "Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss". When a contract is closed, the realised gain/(loss) is recorded under "Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss" in the Statement of Comprehensive Income.

### Financial Futures Contracts

Regulated financial futures contracts are valued at the exchange quoted settlement price. Initial margin deposits are made upon entering into the contracts and can be either in cash or securities. During the period the contracts are open, changes in the value of the contracts are recognised as unrealised gains and losses by "marking-to-market" on a daily basis to reflect the market value of the contracts at the end of each business day's trading. Variation margin payments are made or received, depending upon whether losses or gains are incurred. When a contract is closed, the Sub-Fund records a realised gain or loss equal to the difference between the proceeds from, or cost of, the closing transaction and the initial cost of the contract in "Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss" in the Statement of Comprehensive Income. Unrealised gains or losses are recorded under "Net gain/(loss) in fair value on financial liabilities at fair value through profit or loss" in the Statement of Comprehensive Income.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 2. Significant accounting policies (continued)

#### d. Income recognition

#### (i) Dividend income

Dividend income is recognised in the Statement of Comprehensive Income when the right to receive payment is established. Dividend income is shown gross of any non-recoverable withholding tax, which is disclosed separately as withholding tax in the Statement of Comprehensive Income.

(ii) Interest income and interest from financial assets at fair value through profit or loss

Interest is recognised on a time-proportionate basis using the effective interest method. Interest income includes interest from cash and cash equivalents. Interest from financial assets at fair value through profit or loss includes interest from debt securities. The income is recorded gross of any withholding tax, which is disclosed separately as withholding tax in the Statement of Comprehensive Income.

#### (iii) Securities lending income

Securities lending income is earned from lending securities owned by the Sub-Funds to a number of third party borrowers. Securities lending income is recognised on an accrual basis. The information on securities lending income earned by the ICAV during the year ended 31 December 2021 are detailed in Note 18 and the Securities Financing Transactions appendix. The securities lending income is accounted for on a cash basis on the 16th day of each month following the month that the revenue was generated, net of lending fees paid to the lending agent. An element of the securities lending income will include the proceeds related to the re-investment of cash collateral, if any. Cash collateral received in relation to securities lending transactions as at the reporting date is recorded as Cash collateral received in the Statement of Financial Position.

#### e. Due from/to brokers

Margin and collateral cash provided by the Sub-Funds to a counterparty in relation to financial futures contracts are recorded as Due from/to brokers in the Statement of Financial Position. Margin cash is valued at amortised cost plus accrued interest which approximates fair value.

#### f. Fees and expenses

All of the following fees and expenses in respect of a Sub-Fund or Share Class are recognised in the Statement of Comprehensive Income on an accruals basis and are paid annually to the Management Company:

- (i) All the ordinary operating and administrative expenses of the ICAV or Share Class, including, but not limited to, Directors', Auditors', legal advisors', Administrator's, Depositary's and other service providers' fees and expenses. This also includes formation expenses such as organisation and registration costs; accounting expenses covering fund accounting and administrative services; transfer agency expenses covering registrar and transfer agency services; administrative services and domiciliary agent services; the fees and reasonable out-of-pocket expenses of the paying agents and representatives; legal fees and expenses; ongoing registration, listing and quotation fees, including translation expenses; the cost of publication of the Share prices and postage, telephone, facsimile transmission and other electronic means of communication; and the costs of printing and distributing the Prospectus and Supplements, KIID(s), reports, accounts and any explanatory memoranda, any necessary translation fees, as well as an annual fund servicing fee which is retained by the Management Company in respect of the services that it provides to the ICAV; and
- (ii) The annual management and advisory fee.

The above fees and expenses will not exceed the relevant Total Expense Ratio ("TER") described in the Prospectus. The actual fees and expenses charged to each share class are detailed in Appendix 2 to this report. If expenses exceed the TER in relation to operating the funds, the Management Company will cover any shortfall from its own assets. This will be separately disclosed as a "Fee Waiver" in the Notes to the Audited Financial Statements. Fees and expenses are disclosed in Note 4 and 5.

Subject to the investment restrictions described in this Prospectus, Sub-Funds may invest in other UCITS eligible collective investment schemes, including exchange traded funds managed by the Management Company or any other member of JPMorgan Chase & Co. In accordance with the Prospectus, no double-charging of management and advisory fees will occur. The avoidance of a double-charge of the Annual Management and Advisory Fee on such assets is achieved by either: a) excluding the assets from the net assets on which the Annual Management and Advisory Fee are calculated; or b) investing in Undertakings via Share Classes that do not accrue an Annual Management and Advisory Fee or other equivalent fees payable to the relevant adviser's group; or c) the Annual Management and Advisory Fee being netted off by a rebate to the ICAV or Sub-Fund of the annual management and advisory fee (or equivalent) charged to the underlying Undertakings; or d) charging only the difference between the Annual Management and Advisory Fee of the ICAV or Sub-Fund and the Annual Management and Advisory Fee (or equivalent) charged to the underlying Undertakings.

### g. Transaction costs

Transaction costs are defined as the incremental costs that are directly attributable to the acquisition, issue or disposal of a financial asset or financial liability. An incremental cost is one that would not have been incurred if the entity had not acquired, issued or disposed of the financial instrument. Transaction costs include brokerage fees and depositary agent fees relating to purchase or sale of financial instruments including derivatives (except OTC derivatives).

For some financial instruments, such as debt securities and forward currency contracts, transaction costs are embedded in the price of the instruments and are not separately identifiable. Identifiable transaction costs incurred during the year ended 31 December 2022 and 31 December 2021 are recognised as an expense for financial reporting purposes in the Statement of Comprehensive Income.

Details of transaction costs for each Sub-Fund incurred during the year ended 31 December 2022 and 31 December 2021 are disclosed in Note 7.

### h. Net gains or losses on investments

Net gains or losses on investments include changes in fair value of financial assets and financial liabilities and the realised gains or losses from disposal of financial assets and financial liabilities.

Realised gains and losses on sales of investments are calculated on the average book cost. The associated foreign exchange movement between the date of purchase and date of sale of investments is included in realised gains and losses on investments. Unrealised gains and losses on holdings of investments are calculated on the total book cost and include the associated unrealised gains and losses on foreign exchange.

#### i. Taxation

The dividend and interest income of the ICAV from some of its securities, as well as interest earned on its cash deposits in certain countries, may be subject to withholding taxes and capital gain taxes at varying rates, which normally cannot be recovered. Investment income is recorded gross of withholding taxes and capital gain taxes which are recognised as separate line items in the Statement of Comprehensive Income.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 2. Significant accounting policies (continued)

#### i. Share policy

Shares in the Sub-Funds are redeemable at the option of the shareholders and are presented as "Net assets attributable to holders of redeemable participating shares" in the Statement of Financial Position. They are carried at the redemption amount that would be payable at the year end date if the shareholder exercised the right to redeem shares in the Sub-Funds and are classified as financial liabilities.

Each Sub-Fund may have either Accumulating Share Classes or Distributing Share Classes or both.

Investors in a Sub-Fund are entitled to their share of the relevant Sub-Fund's income and net realised gains on its investments. Each Sub-Fund typically earns income in the form of dividends from stocks, interest from debt securities and, if any, securities lending income. Each Sub-Fund realises capital gains or losses whenever it sells securities. Depending on the underlying market, if there are capital gains, the Sub-Fund may be subject to a capital gains tax in that underlying market.

With respect to the Accumulating Share Classes in all Sub-Funds, the Directors have determined to accumulate all net investment income and net realised capital gains attributable to such Accumulating Share Classes and therefore do not intend to declare dividends in respect of Shares in such Share Classes.

Pursuant to the Instrument of Incorporation, the Directors may declare dividends, in respect of Shares in any Distributing Share Class out of net income (including dividend and interest income) and/or the excess of realised and unrealised gains over realised and unrealised losses in respect of investments of the Sub-Funds.

Distributions are recognised in the Statement of Comprehensive Income as finance costs.

The ICAV classifies all Shares as financial liabilites. Under normal circumstances. Shares of the Sub-Funds with single Share Class would be treated as equity in accordance with IAS 32 "Financial Statements: Presentation". For such Sub-Funds, the Statement of Changes in Net Assets Attributable to Holders of Redeemable Participating Shares would be referred to as Statement of Changes in Equity. Distributions, if any, would be presented in the Statement of Changes in Equity as dividends paid.

#### 3. Cash, cash equivalents and bank overdrafts

Cash balances and overdrafts, if any, at year end are held either by Brown Brothers Harriman & Co. or on overnight deposit with a third party institution approved by the Board or directly with a sub-custodian. Cash equivalents include deposits held at call and short-term highly liquid investments that are readily convertible to known amounts of cash with maturity period of three months or less and which are subject to an insignificant risk of changes in value. Bank overdrafts are included within liabilities.

#### 4. Fees and expenses payable

The following table analyses the fees and expenses payable as at 31 December 2022:

AC Asia Pacific ev

	AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> USD	BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup> USD	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR	BetaBuilders EUR Govt Bond UCITS ETF EUR	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders US Equity UCITS ETF USD
Audit fees payable	9,400	8,500	10,434	10,189	11,068	14,829
Depositary, Corporate, Administration and Domiciliary Agency fees payable	13,446	12,931	15,425	22,008	10,867	21,151
Directors' fees payable (Note 12)	-	-	-	-	-	-
Organisational expenses payable	=	-	=	=	=	=
Management and Advisory fees payable	=	4,920	=	=	=	=
Sundry fees payable*	4,359	7,128	=	62	=	1,477
Fee waiver	(19,188)	-	(16,171)	(29,858)	(17,254)	(36,214)
Total fees and expenses payable	8,017	33,479	9,688	2,401	4,681	1,243
	BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup> USD	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond UCITS ETF USD	Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup> USD
Audit fees payable	-	9,382	9,382	9,382	9,382	_
Depositary, Corporate, Administration and Domiciliary Agency fees payable	20,181	105,723	21,357	18,340	27,998	-
Directors' fees payable (Note 12)	-	-	-	-	=	-
Organisational expenses payable	-	-	-	-	-	-
Management and Advisory fees payable	=	183,155	=	=	-	-
Sundry fees payable*	11,329	67,084	2,680	3,123	4,716	5,111
Fee waiver	(26,937)	-	(13,846)	(19,623)	(6,847)	(3,968)
Total fees and expenses payable	4,573	365,344	19,573	11,222	35,249	1,143

<sup>\*</sup>Sundry Fees are principally comprised of tax related fees, registration, publication, mailing, printing fees, broker collateral charges as well as legal and marketing expenses.

1-Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022.

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 9 August 2022. <sup>4</sup>Sub-Fund launched on 6 December 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

### 4. Fees and expenses payable (continued)

	Carbon Transition Global Equity (CTB) UCITS ETF USD	China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup> USD	Climate Change Solutions UCITS ETF <sup>6</sup> USD	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR
Audit fees payable	9,259	9,400	9,812	10,189	10,189	13,525
Depositary, Corporate, Administration and						
Domiciliary Agency fees payable	31,657	12,033	=	18,547	34,017	68,707
Directors' fees payable (Note 12)	-	-	-	-	-	-
Organisational expenses payable  Management and Advisory fees payable	_	_	5,543	_	1,838	47,644
Sundry fees payable*	3,185	4,416	5,545	894	6,170	28,841
Fee waiver	(22,036)	(20,438)	(3,037)	(20,636)	(8,726)	-
Total fees and expenses payable	22,065	5,411	12,318	8,994	43,488	158,717
	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup> EUR	GBP Ultra-Short Income UCITS ETF GBP	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup> USD	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
Audit fees payable	10,334	7,728	14,692	9,605	14,829	14,606
Depositary, Corporate, Administration and Domiciliary Agency fees payable Directors' fees payable (Note 12)	39,006	46,527 -	19,687	109,367	29,889	57,696 -
Organisational expenses payable	-	=	-	-	-	-
Management and Advisory fees payable	71,144	7,129	-	223,872	-	50,759
Sundry fees payable* Fee waiver	12,768 (11,387)	1,632 (27,499)	(15,228)	26,322 (7,534)	(17,846)	19,999 (23,078)
Total fees and expenses payable	121,865	35,517	19,151	361,632	26,872	119,982
	Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>9</sup> USD	RMB Ultra-Short Income UCITS ETF <sup>10</sup> USD	UK Equity Core UCITS ETF <sup>6</sup> GBP	US Equity Multi-Factor UCITS ETF <sup>11</sup> USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD
Audit fees payable	14,738	8,500	12,635	6,976	8,533	9,382
Depositary, Corporate, Administration and Domiciliary Agency fees payable	80,214	12,952	8,213	5,546	6,520	111,731
Directors' fees payable (Note 12)	-	-	-	-	-	-
Organisational expenses payable	=	=	=	=	=	=
Management and Advisory fees payable	300,958	842	631	-	-	487,207
Sundry fees payable*	32,383	15,939	1,905	2,020	175	59,012
Fee waiver	(550)	(16,568)	(1,109)	(9,879)	(13,435)	(14,112)
Total fees and expenses payable	427,743	21,665	22,275	4,663	1,793	653,220

<sup>\*</sup>Sundry Fees are principally comprised of tax related fees, registration, publication, mailing, printing fees, broker collateral charges as well as legal and marketing expenses.

Sub-Fund launched on 15 February 2022.

Sub-Fund launched on 14 June 2022.

Sub-Fund launched on 26 April 2022.

By Phorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

Sub-Fund launched on 29 March 2022.

Sub-Fund launched on 1 March 2022.

Sub-Fund launched on 23 November 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

### 4. Fees and expenses payable (continued)

As at 31 December 2022 (continued)

	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Ultra-Short Income UCITS ETF USD
Audit fees payable	9,382	9,382	9,382
Depositary, Corporate, Administration and Domiciliary Agency fees payable	32,941	56,832	26,535
Directors' fees payable (Note 12)	=	=	-
Organisational expenses payable	-	-	-
Management and Advisory fees payable	-	167,185	22,338
Sundry fees payable*	7,265	21,715	9,494
Fee waiver	(23,119)	(7,449)	-
Total fees and expenses payable	26,469	247,665	67,749

<sup>\*</sup>Sundry Fees are principally comprised of tax related fees, registration, publication, mailing, printing fees, broker collateral charges as well as legal and marketing expenses.

The following table analyses the fees and expenses payable as at 31 December 2021:

EUR	UCITS ETF EUR	UK Gilt 1-5 yr UCITS ETF GBP	US Equity UCITS ETF USD	US Treasury Bond 0-1 yr UCITS ETF 0 USD	US Treasury Bond -3 Months UCITS ETF <sup>1</sup> USD
9,966	9,966	8,449	11,301	11,301	11,301
13,616	26,529	8,303	19,126	77,806	8,984
-	_	-	-	-	-
25	25	22	29	57	57
-	_	-	-	203,267	-
1,117	481	-	1,985	78,860	8,819
(9,099)	(29,734)	(12,435)	(31,182)	-	(24,365)
15,625	7,267	4,339	1,259	371,291	4,796
	9,966 13,616 - 25 - 1,117 (9,099)	9,966 9,966 13,616 26,529 25 25 1,117 481 (9,099) (29,734)	9,966 9,966 8,449  13,616 26,529 8,303   25 25 25   1,117 481 -  (9,099) (29,734) (12,435)	EUR         EUR         GBP         USD           9,966         9,966         8,449         11,301           13,616         26,529         8,303         19,126           -         -         -         -           25         25         22         29           -         -         -         -           1,117         481         -         1,985           (9,099)         (29,734)         (12,435)         (31,182)	EUR         EUR         GBP         USD         USD           9,966         9,966         8,449         11,301         11,301           13,616         26,529         8,303         19,126         77,806           -         -         -         -         -           25         25         22         29         57           -         -         -         203,267           1,117         481         -         1,985         78,860           (9,099)         (29,734)         (12,435)         (31,182)         -

	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond UCITS ETF USD	Carbon Transition Global Equity (CTB) UCITS ETF USD	Equity Long-Short UCITS ETF <sup>2</sup> USD	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR
Audit fees payable	11,301	11,301	11,301	_	9,966	9,966
Depositary, Corporate, Administration and Domiciliary Agency fees payable	13,665	21,836	15,174	-	16,164	28,849
Directors' fees payable (Note 12)	-	-	=	-	=	-
Organisational expenses payable	57	57	28	-	25	25
Management and Advisory fees payable	-	=	=	-	-	13,286
Sundry fees payable*	6,363	2,060	449	-	5,928	20,509
Fee waiver	(13,158)	(20,108)	(12,471)	-	(19,304)	(9,836)
Total fees and expenses payable	18,228	15,146	14,481	-	12,779	62,799

<sup>\*</sup>Sundry Fees are principally comprised of tax related fees, registration, publication, mailing, printing fees, broker collateral charges as well as legal and marketing expenses. ¹Sub-Fund launched on 17 February 2021. ²Sub-Fund liquidated on 19 June 2020.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 4. Fees and expenses payable (continued)

As at 31 December 2021 (continued)

	EUR Ultra-Short Income UCITS ETF EUR	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	GBP Ultra-Short Income UCITS ETF GBP	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF USD	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
Audit fees payable	9,966	9,966	8,449	11,301	11,301	11,301
Depositary, Corporate, Administration and						
Domiciliary Agency fees payable	66,363	22,739	11,204	69,091	23,551	48,158
Directors' fees payable (Note 12)	-	-	-	-	-	-
Organisational expenses payable	25	28	22	29	28	115
Management and Advisory fees payable	42,990	62,039	2,797	220,043	=	70,854
Sundry fees payable*	38,296	8,640	- (2.1.2)	46,917	- ()	21,957
Fee waiver	-	(5,766)	(3,640)	-	(17,408)	(8,624)
Total fees and expenses payable	157,640	97,646	18,832	347,381	17,472	143,761
	Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Managed Futures UCITS ETF <sup>3</sup> USD	US Equity Multi-Factor UCITS ETF USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD
Audit food payable	11 201		11 201	11 201	11 201	11 201
Audit fees payable  Depositary, Corporate, Administration and	11,301	=	11,301	11,301	11,301	11,301
Domiciliary Agency fees payable	17,657	=	10,961	33,249	29,186	50,335
Directors' fees payable (Note 12)	-	-	-	-	-	-
Organisational expenses payable	28	-	29	29	29	143
Management and Advisory fees payable	106,380	-	-	136,236	-	264,646
Sundry fees payable*	17,981	=	-	67,259	33,097	30,976
Fee waiver	(5,234)	-	(17,059)	-	(47,562)	(6,279)
Total fees and expenses payable	148,113	-	5,232	248,074	26,051	351,122
	USD Ultra-Short Income UCITS ETF USD					
Audit fees payable	11,301					
Depositary, Corporate, Administration and	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Domiciliary Agency fees payable	35,228					
Directors' fees payable (Note 12)	-					
Organisational expenses payable	29					
Management and Advisory fees payable	36,648					
Sundry fees payable*	10,453					
Egg waiver						

93,659

Fee waiver

Total fees and expenses payable

<sup>\*</sup>Sundry Fees are principally comprised of tax related fees, registration, publication, mailing, printing fees, broker collateral charges as well as legal and marketing expenses.

<sup>&</sup>lt;sup>3</sup>Sub-Fund liquidated on 17 November 2020.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 5. Fees and expenses

The following table analyses the fees and expenses for the year ended 31 December 2022:

	AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> USD	BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup> USD	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR	BetaBuilders EUR Govt Bond UCITS ETF EUR	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders US Equity UCITS ETF USD
Audit fees	8,965	8,107	8,737	8,532	7,295	14,143
Depositary, Corporate, Administration and Domiciliary Agency fees	78,660	50,006	86,638	138,550	59,771	107,315
Directors' fees (Note 12)	4,421	3,917	4,710	4,710	4,023	4,966
Organisational expenses	=	=	=	=	=	=
Management and Advisory fees	-	6,832	-	-	-	-
Sundry fees*	75,132	96,308	61,473	54,967	47,411	66,149
Fee waiver	(131,670)	(50,215)	(90,246)	(177,312)	(91,638)	(185,349)
Total fees and expenses	35,508	114,955	71,312	29,447	26,862	7,224
	BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup> USD	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond UCITS ETF USD	Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup> USD
Audit fees	-	8,948	8,948	8,948	8,948	-
Depositary, Corporate, Administration and						
Domiciliary Agency fees	20,778	588,531	83,988	96,442	167,728	-
Directors' fees (Note 12)	1,893	4,966	4,966	4,966	4,966	474
Organisational expenses	=	=	=	=	=	-
Management and Advisory fees	=	960,714	3,221		1,174	
Sundry fees*	65,459	619,223	76,938	74,044	77,663	4,637
Fee waiver	(78,333)	-	(88,452)	(108,348)	(93,483)	(3,968)
Total fees and expenses	9,797	2,182,382	89,609	76,052	166,996	1,143
	Carbon Transition Global Equity (CTB) UCITS ETF USD	China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> USD	Climate Change Solutions UCITS ETF <sup>5</sup> USD	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR
Audit fees	8,831	8,965	9,358	8,532	8,532	11,325
Depositary, Corporate, Administration and	105	01.551		10/ 055	100 46 1	200
Domiciliary Agency fees  Directors' fees (Note 12)	135,775	86,556		106,059	188,496	390,46
Directors' fees (Note 12)	4,966	4,421	2,644	4,710	4,710	4,710
Organisational expenses	465	=	6,448	=	E7 262	10 // 170
Management and Advisory fees Sundry fees*	83,293	136,421	74,210	- 55,215	57,263 101,414	184,128 335,909
Fee waiver	(145,955)	(205,417)		(106,928)	(47,897)	
Total fees and expenses	87,375	30,946	35,990	67,588	312,518	926,529

<sup>\*</sup>Sundry Fees are principally comprised of tax related fees, registration, publication, mailing, printing fees, broker collateral charges as well as legal and marketing expenses.

¹Sub-Fund launched on 15 February 2022.

²Sub-Fund launched on 9 August 2022.

³Sub-Fund launched on 9 August 2022.

⁴Sub-Fund launched on 6 December 2022.

<sup>&</sup>lt;sup>5</sup>Sub-Fund launched on 14 June 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

### 5. Fees and expenses (continued)

For the year ended 31 December 2022 (continued)

	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> EUR	GBP Ultra-Short Income UCITS ETF GBP	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup> USD	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
Audit fees	8,653	6,471	9,684	9,161	14,143	13,930
Depositary, Corporate, Administration and						
Domiciliary Agency fees	215,587	80,540	120,539	719,100	153,619	319,926
Directors' fees (Note 12)	4,710	2,981	4,023	4,966	4,966	4,966
Organisational expenses	- 2/1 217		_	1 201 012	4 712	200 202
Management and Advisory fees	361,217	7,129		1,301,813 240,992	4,713	299,392 159,641
Sundry fees* Fee waiver	125,748 (66,477)	80,631 (118,268)	57,810 (76,774)	(89,649)	67,832 (92,994)	(102,497)
Total fees and expenses	649,438	59,484	115,282	2,186,383	152,279	695,358
	Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup> USD	RMB Ultra-Short Income UCITS ETF <sup>9</sup> USD	UK Equity Core UCITS ETF <sup>10</sup> GBP	US Equity Multi-Factor UCITS ETF <sup>11</sup> USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD
Audit fees	14,056	8,107	12,051	4,598	8,138	8,948
Depositary, Corporate, Administration and	,	-, -	,	,	-,	-, -
Domiciliary Agency fees	512,474	54,119	41,078	16,671	68,744	428,621
Directors' fees (Note 12)	4,966	3,917	3,917	2,243	4,492	4,966
Organisational expenses	-	=	-	=	=	-
Management and Advisory fees	1,226,713	1,625	4,204	- 22.450	-	1,875,763
Sundry fees*	271,657	131,049	110,395	23,650	55,604	405,706
Fee waiver	(141,695)	(136,906)	(49,302)	(32,242)	(110,224)	(56,832)
Total fees and expenses	1,888,171	61,911	122,343	14,920	26,754	2,667,172
	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Ultra-Short Income UCITS ETF USD			
Audit fees	8,948	8,948	8,948			
Depositary, Corporate, Administration and Domiciliary Agency fees	210,470	334,912	167,699			
Directors' fees (Note 12)	4,966	4,966	4,966			
Organisational expenses	-	-	-			
Management and Advisory fees	=	1,074,586	106,654			
Sundry fees*	99,141	200,474	125,896			
	(===)	()				

(166,709)

156,816

Fee waiver

Total fees and expenses

(50,705)

1,573,181

414,163

<sup>\*</sup>Sundry Fees are principally comprised of tax related fees, registration, publication, mailing, printing fees, broker collateral charges as well as legal and marketing expenses.

6Sub-Fund launched on 26 April 2022.

7JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

<sup>\*</sup>Sub-Fund launched on 29 March 2022.

Sub-Fund launched on 1 March 2022.

Sub-Fund launched on 14 June 2022.

Sub-Fund launched on 23 November 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 5. Fees and expenses (continued)

The following table analyses the fees and expenses for the year ended 31 December 2021:

	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR	BetaBuilders EUR Govt Bond UCITS ETF EUR	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders US Equity UCITS ETF USD	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF USD	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF USD
Audit fees	12,032	12,032	10,336	14,167	14,167	13,110
Depositary, Corporate, Administration and Domiciliary Agency fees	79,574	143,647	53,613	118,662	643,128	38,383
Directors' fees (Note 12)	5,003	5,003	4,277	5,836	5,836	5,471
Organisational expenses	144	144	124	272	344	297
Management and Advisory fees	-	-	-	35	919,502	-
Sundry fees*	65,186	59,605	50,744	76,911	549,895	78,648
Fee waiver	(88,804)	(196,573)	(96,629)	(210,852)	-	(126,607)
Total fees and expenses	73,135	23,858	22,465	5,031	2,132,872	9,302
	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond UCITS ETF USD	Carbon Transition Global Equity (CTB) UCITS ETF USD	Equity Long-Short UCITS ETF <sup>2</sup> USD	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUF
Audit fees	14,167	14,167	14,167	-	12,032	12,032
Depositary, Corporate, Administration and	102.277	120 700	134 (10		00.404	1/0.033
Domiciliary Agency fees Directors' fees (Note 12)	102,267 5,836	139,780 5,836	124,610 5,836	=	99,696 5,003	168,032 5,003
Organisational expenses	344	344	209		144	144
Management and Advisory fees	38	237	507	=	-	76,083
Sundry fees*	84,990	84,498	81,357	-	60,767	100,737
Fee waiver	(86,760)	(145,047)	(158,299)	=	(105,363)	(10,911)
Total fees and expenses	120,882	99,815	68,387	-	72,279	351,120
	EUR Ultra-Short Income UCITS ETF EUR	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	GBP Ultra-Short Income UCITS ETF GBP	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF USD	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
Audit fees	12,032	12,032	10,336	14,167	14,167	14,167
Depositary, Corporate, Administration and Domiciliary Agency fees	389,267	1EE 400	117,201	658,519	171,962	293,854
Directors' fees (Note 12)	5,003	155,480 5,003	4,277	5,836	5,836	293,834 5,836
Organisational expenses	144	155	124	172	681	5,830
Management and Advisory fees	140,361	229,795	2,797	944,820	5,868	356,437
Sundry fees*	226,925	104,945	55,636	300,393	66,806	156,213
Fee waiver	- -	(7,434)	(82,321)	-	(189,254)	(51,262)
Total fees and expenses	773,732	499,976	108,050	1,923,907	76,066	775,933

<sup>\*</sup>Sundry Fees are principally comprised of tax related fees, registration, publication, mailing, printing fees, broker collateral charges as well as legal and marketing expenses. ¹Sub-Fund launched on 17 February 2021. ²Sub-Fund liquidated on 19 June 2020.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

### 5. Fees and expenses (continued)

For the year ended 31 December 2021 (continued)

	Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Managed Futures UCITS ETF <sup>3</sup> USD	US Equity Multi-Factor UCITS ETF USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD
Audit fees	14,167	-	14,167	14,167	14,167	14,167
Depositary, Corporate, Administration and						
Domiciliary Agency fees	228,017	-	76,994	178,819	189,466	419,244
Directors' fees (Note 12)	5,836	-	5,836	5,836	5,836	5,836
Organisational expenses	1,184	≡	272	2,172	172	860
Management and Advisory fees	324,306	-	=	448,353	468	1,753,172
Sundry fees*	122,869	-	65,714	204,776	103,771	276,807
Fee waiver	(59,944)	=	(135,207)	=	(144,020)	(57,057)
Total fees and expenses	636,435	-	27,776	854,123	169,860	2,413,029

USD
14 167
14,167
177,228
5,836
172
87,232
119,880
(25,752)
378,763

<sup>\*</sup>Sundry Fees are principally comprised of tax related fees, registration, publication, mailing, printing fees, broker collateral charges as well as legal and marketing expenses.

3Sub-Fund liquidated on 17 November 2020.

#### Audit fees

PricewaterhouseCoopers Ireland serve as auditors to the ICAV. The aggregate emoluments of the auditors (including expenses) for year ended 31 December 2022 was USD 300,314 (31 December 2021: USD 320,832)

Audit fees: USD 300,314 (31 December 2021: USD 320,832)

There were no non-audit fees for the year ended 31 December 2022 and 31 December 2021.

Fees amounting to USD 314,928 are outstanding at the year end (31 December 2021: USD 260,407).

### 6. Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss

The following tables details the breakdown of net realised and unrealised gain/(loss) on financial assets and liabilities at fair value through profit or loss as reported in the Statement of Comprehensive Income for the year ended 31 December 2022:

	AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> USD	BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup> USD	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR	BetaBuilders EUR Govt Bond UCITS ETF EUR	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders US Equity UCITS ETF USD
Net realised gain/(loss) on investments	(557,176)	466	(1,472,593)	(6,530,770)	(1,150,432)	(139,760)
Net change in unrealised gain/(loss) on investments	(1,397,609)	23,536	(2,012,309)	(1,545,314)	(1,617,737)	(4,059,769)
Net realised gain/(loss) on derivatives	(115,172)	602,065	-	-	-	(14,649)
Net change in unrealised gain/(loss) on derivatives	859	(482,656)	-	-	-	(2,139)
Net realised and change in unrealised gain/(loss) on currency	(551,119)	(3,305,522)	-	(288)	4	(53)
Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	(2,620,217)	(3,162,111)	(3,484,902)	(8,076,372)	(2,768,165)	(4,216,370)

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 6. Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss (continued)

For the year ended 31 December 2022 (continued)

	BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup> USD	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF( USD	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF USD	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond UCITS ETF USD	Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup> USD
Net realised gain/(loss) on investments	(43,351)	(3,701,311)	(42,983)	(3,797,801)	(13,496,958)	(1,150)
Net change in unrealised gain/(loss) on investments	(891,846)	(2,923,255)	29,495	(1,863,836)	(15,594,702)	(13,355)
Net realised gain/(loss) on derivatives	(9,125)	368,387,366	13,925,660	163,419	(9,406,190)	-
Net change in unrealised gain/(loss) on derivatives Net realised and change in unrealised gain/(loss)	(763)	(163,345,031)	(3,799,760)	(46,722)	(1,335,568)	-
on currency	1,111	(33,387)	2,042	1,409	2,035	7,808
Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	(943,974)	198,384,382	10,114,454	(5,543,531)	(39,831,383)	(6,697)
	Carbon Transition Global Equity (CTB) UCITS ETF USD	China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup> USD	Climate Change Solutions UCITS ETF <sup>6</sup> USD	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR	EUR Ultra-Short Income UCITS ETF EUR
Net realised gain/(loss) on investments	343,088	(91,614)	282,578	(1,614,093)	(8,492,118)	(1,920,354)
Net change in unrealised gain/(loss) on investments	(9,197,253)	(1,190,165)	701,305	(1,610,629)	(17,943,896)	(4,632,993)
Net realised gain/(loss) on derivatives	(135,624)	=	-	(7,486)	(348,236)	(17,979,725)
Net change in unrealised gain/(loss) on derivatives	34,437	-	-	4,940	(427,741)	1,212,206
Net realised and change in unrealised gain/(loss) on currency	(809,280)	(875,827)	201,215	(12)	8,992	15,689,235
Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	(9,764,632)	(2,157,606)	1,185,098	(3,227,280)	(27,202,999)	(7,631,631)
	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup> EUR	GBP Ultra-Short Income UCITS ETF GBP	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup> USD	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
Net realised gain/(loss) on investments	2,545,059	522,062	(156,384)	(32,525,955)	(1,249,904)	(19,683,904)
Net change in unrealised gain/(loss) on investments	(32,767,567)	4,376,161	(690,007)	(139,843,133)	(7,449,567)	(13,268,991)
Net realised gain/(loss) on derivatives	(52,707,507)	-,570,101	(1,432,295)	137,958	(40,466)	(6,205,882)
Net change in unrealised gain/(loss) on derivatives	-	-	(632,274)	(18,500)	(7,507)	(2,359,353)
Net realised and change in unrealised gain/(loss) on currency	(2,319,864)	(7,516)	2,119,419	(34,117,572)	(2,467,858)	(2,456,750)
Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	(32,542,372)	4,890,707	(791,541)	(206,367,202)	(11,215,302)	(43,974,880)

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 9 August 2022.
<sup>4</sup>Sub-Fund launched on 6 December 2022.
<sup>5</sup>Sub-Fund launched on 15 February 2022.
<sup>6</sup>Sub-Fund launched on 15 February 2022.
<sup>6</sup>Sub-Fund launched on 14 June 2022.
<sup>7</sup>Sub-Fund launched on 26 April 2022.
<sup>8</sup>Jub-Fund launched on 26 April 2022.
<sup>8</sup>Jub-Gund launched on 36 April 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 6. Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss (continued)

For the year ended 31 December 2022 (continued)

	Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>9</sup> USD	RMB Ultra-Short Income UCITS ETF <sup>10</sup> USD	UK Equity Core UCITS ETF <sup>11</sup> GBP	US Equity Multi-Factor UCITS ETF <sup>12</sup> USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD
Net realised gain/(loss) on investments	(11,929,345)	204,394	(415)	(78,954)	2,640,789	3,311,589
Net change in unrealised gain/(loss) on investments	(106,968,258)	(1,165,581)	(41,982)	336,994	(4,088,337)	(219,596,952)
Net realised gain/(loss) on derivatives	(12,829,241)	42,668	-	(4,641)	(996)	102,387
Net change in unrealised gain/(loss) on derivatives	(465,892)	(20,677)	-	195	(574)	433,843
Net realised and change in unrealised gain/(loss) on currency	(12,414,096)	1,087,868	(5,400,629)	297	3	963
Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	(144,606,832)	148,672	(5,443,026)	253,891	(1,449,115)	(215,748,170)

	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD	USD Ultra-Short Income UCITS ETF USD
Net realised gain/(loss) on investments	(3,905,892)	(64,482,363)	(469,668)
Net change in unrealised gain/(loss) on investments	(12,782,959)	(35,270,059)	(2,051,277)
Net realised gain/(loss) on derivatives	(3,363,521)	(28,335,664)	1,641,193
Net change in unrealised gain/(loss) on derivatives	282,947	4,775,542	(80,399)
Net realised and change in unrealised gain/(loss) on currency	(17,130)	8,515	762
Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	(19,786,555)	(123,304,029)	(959,389)

The following tables details the breakdown of net realised and unrealised gain/(loss) on financial assets and liabilities at fair value through profit or loss as reported in the Statement of Comprehensive Income for the year ended 31 December 2021:

	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF EUR	BetaBuilders EUR Govt Bond UCITS ETF EUR	BetaBuilders UK Gilt 1-5 yr UCITS ETF GBP	BetaBuilders US Equity UCITS ETF USD	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF 0 USD	BetaBuilders US Treasury Bond -3 Months UCITS ETF <sup>1</sup> USD
Net realised gain/(loss) on investments	120,009	(51,153)	(74,427)	1,301,788	50,667	205
Net change in unrealised gain/(loss) on investments	(400,682)	(1.463.317)	(611.746)	1.846.191	(458.076)	(229)
Net realised gain/(loss) on derivatives	(400,082)	(1,403,317)	(011,740)	1,840,191	(79.172.017)	(1,685,299)
Net change in unrealised gain/(loss) on derivatives	-	-	=	397	124,026,919	1,631,836
Net realised and change in unrealised gain/(loss) on currency	-	(141)	-	115	43,486	3,224
Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	(280,673)	(1,514,611)	(686,173)	3,161,158	44,490,979	(50,263)

 <sup>&</sup>lt;sup>9</sup>Sub-Fund launched on 29 March 2022.
 <sup>10</sup>Sub-Fund launched on 1 March 2022.
 <sup>11</sup>Sub-Fund launched on 14 June 2022.
 <sup>12</sup>Sub-Fund liquidated on 23 November 2022.

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 17 February 2021.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 6. Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss (continued)

For the year ended 31 December 2021 (continued)

BetaBuilders US Treasury Bond 1-3 yr UCITS ETF USD	BetaBuilders US Treasury Bond UCITS ETF USD	Carbon Transition Global Equity (CTB) UCITS ETF USD	Equity Long-Short UCITS ETF <sup>2</sup> USD	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF EUR	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF EUR
642,047	349,903	1,128,213	-	251,818	1,111,226
(2 220 109)	(4 910 036)	6 150 110		(440 403)	(4,593,237)
					68,921
17,311	(1,130,557)	252	=	(6,910)	(99,309)
(3)	5,765	(641,637)	=	(28)	(5)
(1,572,492)	(4,896,465)	6,665,889	-	(196,687)	(3,512,404)
EUR Ultra-Short Income UCITS ETF EUR	Europe Research Enhanced Index Equity (ESG) UCITS ETF EUR	GBP Ultra-Short Income UCITS ETF GBP	Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF USD	Global Equity Multi-Factor UCITS ETF USD	Global High Yield Corporate Bond Multi-Factor UCITS ETF USD
(539,011)	11,664,509	35,933	22,593,784	2,282,473	2,290,622
(2.227.224)	22.552.507	(524.155)	(44.040.247)	4.002.270	(4.122.702)
					(6,122,703) 404,706
	370,293				451,615
10,785,729	3,652,882	(944,506)	(13,900,177)	(814,674)	(2,841,400)
(4,476,095)	39,246,191	(444,853)	(36,035,154)	6,478,037	(5,817,160)
Global Research Enhanced Index Equity (ESG) UCITS ETF USD	Managed Futures UCITS ETF <sup>3</sup> USD	US Equity Multi-Factor UCITS ETF USD	US Research Enhanced Index Equity (ESG) UCITS ETF USD	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD	USD Emerging Markets Sovereign Bond UCITS ETF USD
11,742,172	-	908,342	26,130,204	3,300,977	4,706,287
38,672,438	=	2,494,633	77,140,744	(7,347,251)	(49,368,505)
889,017	=	5,008	80,641	(175,675)	(23,007,415)
(40,854)	-	334	(3,238)	129,488	(9,385,182)
(4,013,374)	-	1	-	37,451	(691)
	US Treasury Bond 1-3 yr UCITS ETF USD  642,047 (2,220,198) (11,649) 17,311 (3)  (1,572,492)  EUR Ultra-Short Income UCITS ETF EUR  (539,011) (2,227,224) (10,465,567) (2,030,022) 10,785,729  (4,476,095)  Global Research Enhanced Index Equity (ESG) UCITS ETF USD  11,742,172 38,672,438 889,017 (40,854)	US Treasury Bond 1-3 yr UCITS ETF USD  642,047 349,903  (2,220,198) (4,819,036) (11,649) 697,460 17,311 (1,130,557)  (3) 5,765  (1,572,492) (4,896,465)  EUR Ultra-Short Income UCITS ETF EUR  (539,011) 11,664,509  (2,227,224) 23,552,507 (10,465,567) 376,293 (2,030,022) - 10,785,729 3,652,882  (4,476,095) 39,246,191  Global Research Enhanced Index Equity (ESG) UCITS ETF USD  Global Research Enhanced Index Equity (ESG) UCITS ETF USD  11,742,172 - 38,672,438 - 889,017 - (40,854) -	US Treasury Bond 1-3 yr UCITS ETF USD	USD   USD   USD   UCITS ETF   USD   USD	Betabuilders   US Treasury Bond   UCITS ETF   USD

<sup>&</sup>lt;sup>2</sup>Sub-Fund liquidated on 19 June 2020.

<sup>&</sup>lt;sup>3</sup>Sub-Fund liquidated on 17 November 2020.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 6. Net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss (continued)

For the year ended 31 December 2021 (continued)

	USD Ultra-Short Income
	UCITS ETF USD
Net realised gain/(loss) on investments	365,651
Net change in unrealised gain/(loss) on investments	(1,874,689)
Net realised gain/(loss) on derivatives	20,770
Net change in unrealised gain/(loss) on derivatives  Net realised and change in unrealised gain/(loss)	62,461
on currency	396
Net gain/(loss) in fair value on financial assets	
and financial liabilities at fair value through profit or loss	(1,425,411)

### 7. Transaction costs

In order to achieve its investment objective, each Sub-Fund incurs transaction costs in relation to trading activity on its portfolio as set out below. These costs may include broker commissions, settlement fees, stamp duties, and financial transaction taxes.

Sub-Funds	Currency	For the year ended 31 December 2022	For the year ended 31 December 2021
AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD	75,245	-
BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup>	USD	8,727	-
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	EUR	5,478	3,106
BetaBuilders EUR Govt Bond UCITS ETF	EUR	31,019	27,668
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP	1,962	1,192
BetaBuilders US Equity UCITS ETF	USD	28,728	37,530
BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup>	USD	6,731	-
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	USD	20,523	33,096
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>4</sup>	USD	22,822	20,477
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF	USD	4,549	6,287
BetaBuilders US Treasury Bond UCITS ETF	USD	29,831	26,717
Carbon Transition China Equity (CTB) UCITS ETF <sup>5</sup>	USD	4,030	-
Carbon Transition Global Equity (CTB) UCITS ETF	USD	110,908	98,649
China A Research Enhanced Index Equity (ESG) UCITS ETF1	USD	67,593	-
Climate Change Solutions UCITS ETF <sup>6</sup>	USD	2,816	-
EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF	EUR	6,162	7,643
EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF	EUR	12,973	12,380
EUR Ultra-Short Income UCITS ETF	EUR	27,772	16,887
Europe Research Enhanced Index Equity (ESG) UCITS ETF	EUR	629,125	260,646
Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup>	EUR	177,813	-
GBP Ultra-Short Income UCITS ETF	GBP	28,923	33,442
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup>	USD	959,846	743,266
Global Equity Multi-Factor UCITS ETF	USD	101,880	111,331
Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD	60,786	52,916
Global Research Enhanced Index Equity (ESG) UCITS ETF	USD	694,800	257,895
Japan Research Enhanced Index Equity (ESG) UCITS ETF9	USD	31,242	-
RMB Ultra-Short Income UCITS ETF <sup>10</sup>	USD	119,396	-
UK Equity Core UCITS ETF <sup>6</sup>	GBP	61,831	-
US Equity Multi-Factor UCITS ETF <sup>11</sup>	USD	10,083	7,803
US Research Enhanced Index Equity (ESG) UCITS ETF	USD	214,213	77,579
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD	39,370	38,625
USD Emerging Markets Sovereign Bond UCITS ETF	USD	73,902	67,507
USD Ultra-Short Income UCITS ETF	USD	15,555	21,244
<sup>1</sup> Sub-Fund launched on 15 February 2022.			

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022.

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 9 August 2022. <sup>4</sup>Sub-Fund launched on 17 February 2021. <sup>5</sup>Sub-Fund launched on 6 December 2022.

<sup>6</sup>Sub-Fund launched on 14 June 2022.
7Sub-Fund launched on 26 April 2022.
8JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS FTF on 20 May 2022.

Sub-Fund launched on 29 March 2022.

Sub-Fund launched on 1 March 2022.

<sup>&</sup>lt;sup>11</sup>Sub-Fund liquidated on 23 November 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 8. Share Capital

The authorised share capital of the ICAV is 500,000,000,002 Shares of no par value divided into 2 Subscriber Shares of no par value and 500,000,000,000 shares of no par value. The Directors are empowered to issue up to all of the Shares of the ICAV on such terms as they think fit. The Subscriber Shares entitle the holders to attend and vote at any general meetings of the ICAV but do not entitle the holders to participate in the profits or assets of the ICAV except for a return of capital on a winding-up. The Shares entitle the holders to attend and vote at general meetings of the ICAV and (other than the Subscriber Shares) to participate equally in the profits and assets of the Sub-Fund to which the Shares relate, subject to any differences between fees, charges and expenses applicable to different Share Classes. The ICAV may from time to time by ordinary resolution increase its capital, consolidate the Shares or any of them into a smaller number of Shares, sub-divide the Shares or any of them into a larger number of Shares or cancel any Shares not taken or agreed to be taken by any person. The ICAV may by special resolution from time to time reduce its share capital in any way permitted by law. At a meeting of Shareholders, on a show of hands, each Shareholder shall have one vote and, on a poll, each Shareholder shall have one vote for each whole Share held by such Shareholder.

The following table shows the number of shares in issue at the reporting date together with the movements during the year ended 31 December 2022:

	Shares Outstanding at the Beginning of the year	Shares Subscribed	Shares Redeemed	Shares Outstanding at the End of the year
AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> Class USD (acc) Class USD (dist)	- -	900,000 200,000	(120,000)	780,000 200,000
BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup> Class EUR Hedged (acc) Class USD (acc) Class USD (dist) Class USD Hedged (dist)	- - - -	214,886 317,601 313,301 138,801	(2,038) (38,022) (62,892) (2,403)	212,848 279,579 250,409 136,398
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF Class EUR (acc)	1,420,506	354,800	(1,187,000)	588,306
BetaBuilders EUR Govt Bond UCITS ETF Class EUR (acc)	424,372	429,000	(674,000)	179,372
BetaBuilders UK Gilt 1-5 yr UCITS ETF Class GBP (dist)	283,315	217,000	(96,400)	403,915
BetaBuilders US Equity UCITS ETF Class USD (acc) Class USD (dist)	367,341 65,812	183,000 10,000	(59,624) (34,472)	490,717 41,340
BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup> Class USD (acc) Class USD (dist)	-	295,000 602,036	(42,012) (15,019)	252,988 587,017
BetaBuilders US Treasury Bond O-1 yr UCITS ETF Class MXN Hedged (acc) Class USD (acc)	18,750,716 2,175,960	785,545 7,947,379	(5,768,389) (2,304,001)	13,767,872 7,819,338
BetaBuilders US Treasury Bond O-3 Months UCITS ETF Class MXN Hedged (acc) Class USD (acc)	231,000 66,525	960,000 349,288	(605,000) (38,300)	586,000 377,513
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF Class MXN Hedged (acc) Class USD (acc)	2,299 1,335,294	29,000 793,208	(22,850) (1,242,100)	8,449 886,402
BetaBuilders US Treasury Bond UCITS ETF Class GBP Hedged (acc) Class USD (acc)	570,488 352,091	1,381,461 2,355,659	(227,047) (2,082,295)	1,724,902 625,455
Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup> Class USD (acc)	-	200,000	-	200,000
Carbon Transition Global Equity (CTB) UCITS ETF Class EUR Hedged (acc) <sup>†</sup> Class USD (acc)	- 1,300,000	72,289 5,800,000	- (71,719)	72,289 7,028,281

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022.

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 9 August 2022.

<sup>&</sup>lt;sup>4</sup>Sub-Fund launched on 6 December 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 8. Share Capital (continued)

	Shares Outstanding at the Beginning of the year	Shares Subscribed	Shares Redeemed	Shares Outstanding at the End of the year
China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup>				
Class USD (dist)	-	225,000 210,179	(10,000)	215,000 210,179
Climate Change Solutions UCITS ETF <sup>6</sup> Class USD (acc)	-	580,000	(80,000)	500,000
EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF Class EUR (acc)	377,578	90,000	(229,999)	237,579
EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF				
Class GBP Hedged (acc)	1,778,575 1,877	190,035 186,100	(823,989) (2,100)	1,144,621 185,877
EUR Ultra-Short Income UCITS ETF Class EUR (acc)	11,257,203	6,564,000	(5,841,000)	11,980,203
Europe Research Enhanced Index Equity (ESG) UCITS ETF				
Class EUR (acc) Class EUR (dist)	6,157,925 60,000	6,527,899 39,281	(3,238,766) (77,647)	9,447,058 21,634
Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup> Class EUR (acc)		3,754,932	(168,658)	3,586,274
Class EUR (dist)	-	203,940	(20,181)	183,759
GBP Ultra-Short Income UCITS ETF Class GBP (acc)	191,698	112,272	(54,173)	249,797
Class GBP (dist)	909,542	344,651	(299,737)	954,456
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup> Class USD (acc)	19,886,476	12,603,440	(980,448)	31,509,468
Class USD (dist)	8,572	180,916	(44,502)	144,986
Global Equity Multi-Factor UCITS ETF Class USD (acc)	1,700,000	1,400,000	(300,000)	2,800,000
Global High Yield Corporate Bond Multi-Factor UCITS ETF				
Class CHF Hedged (acc)† Class EUR Hedged (dist)†	-	4,495 35,749	(1,500) (22,010)	2,995 13,739
Class GBP Hedged (dist)	12,996,126	17,886,448	(7,104,078)	23,778,496
Class MXN Hedged (acc) Class USD (acc)	20,120 773,128	- 1,179,778	(12,926) (1,302,337)	7,194 650,569
Class USD (dist)† Class USD Hedged (acc)	- 534,216	2,548 198,229	(601,230)	2,548 131,215
Global Research Enhanced Index Equity (ESG) UCITS ETF				
Class EUR Hedged (acc)	11,985	1,812,018	(500,036)	1,323,967
Class GBP Hedged (acc) Class USD (acc)	12,229 9,461,658	4,968,231 24,121,856	(70,516) (6,701,538)	4,909,944 26,881,976
Class USD (dist)	13,930	184,980	(40,045)	158,865
Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>9</sup> Class CHF Hedged (acc)	_	21,988	-	21,988
Class EUR Hedged (acc)	-	29,764	(8,323)	21,441
Class JPY (acc)	-	12,286	(537.030)	12,286
Class USD (acc) Class USD (dist)	-	2,760,617 387,540	(527,020) (77,107)	2,233,597 310,433
56   5		,	. ,,	,

<sup>&</sup>lt;sup>5</sup>Sub-Fund launched on 15 February 2022.

<sup>6</sup>Sub-Fund launched on 14 June 2022.

<sup>7</sup>Sub-Fund launched on 26 April 2022.

<sup>8</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

<sup>9</sup>Sub-Fund launched on 29 March 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 8. Share Capital (continued)

As at 31 December 2022 (continued)

	Shares Outstanding at the Beginning of the year	Shares Subscribed	Shares Redeemed	Shares Outstanding at the End of the year
RMB Ultra-Short Income UCITS ETF <sup>10</sup>				
Class USD (acc)	-	290,089	(4,931)	285,158
Class USD (dist)	-	364,987	(111,076)	253,911
UK Equity Core UCITS ETF <sup>11</sup>				
Class GBP (acc)	-	232,000	(7,900)	224,100
Class GBP (dist)	-	247,900	(32,000)	215,900
US Equity Multi-Factor UCITS ETF <sup>12</sup>				
Class USD (acc)	450,000	-	(450,000)	-
US Research Enhanced Index Equity (ESG) UCITS ETF				
Class CHF Hedged (acc) <sup>†</sup>	-	10,273	-	10,273
Class EUR Hedged (acc)†	-	580,281	(129,771)	450,510
Class USD (acc)	18,879,788	39,755,014	(7,898,694)	50,736,108
Class USD (dist)	2,388,234	1,368,007	(578,349)	3,177,892
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF				
Class EUR Hedged (acc)	178,116	146,425	(102,246)	222,295
Class GBP Hedged (acc)†	-	204,374	(9,433)	194,941
Class USD (acc)	476,021	263,438	(256,693)	482,766
Class USD (dist)	16,297	41,351	(40,594)	17,054
USD Emerging Markets Sovereign Bond UCITS ETF				
Class CHF Hedged (acc)	125,832	21,635	(26,302)	121,165
Class EUR Hedged (acc)	2,550,851	934,337	(463,472)	3,021,716
Class GBP Hedged (dist)	64,349	37,183	(22,324)	79,208
Class MXN Hedged (acc)	2,917	20,977	(9,300)	14,594
Class USD (acc)	770,718	452,061	(626,395)	596,384
Class USD (dist)	1,190,115	748,859	(1,351,682)	587,292
USD Ultra-Short Income UCITS ETF				
Class USD (acc)	1,472,278	394,026	(976,546)	889,758
Class USD (dist)	1,091,465	978,744	(767,497)	1,302,712
<sup>10</sup> Sub-Fund launched on 1 March 2022.				

The following table shows the number of shares in issue at the reporting date together with the movements during the year ended 31 December 2021:

	Shares Outstanding at the Beginning of the year	Shares Subscribed	Shares Redeemed	Shares Outstanding at the End of the year
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF Class EUR (acc)	753,006	929,000	(261,500)	1,420,506
BetaBuilders EUR Govt Bond UCITS ETF Class EUR (acc)	179,000	686,500	(441,128)	424,372
BetaBuilders UK Gilt 1-5 yr UCITS ETF Class GBP (dist)	272,315	157,000	(146,000)	283,315
BetaBuilders US Equity UCITS ETF Class USD (acc) Class USD (dist)	222,970 22,000	254,371 150,000	(110,000) (106,188)	367,341 65,812

<sup>&</sup>lt;sup>11</sup>Sub-Fund launched on 14 June 2022. <sup>12</sup>Sub-Fund liquidated on 23 November 2022. † Share Class launched in the current reporting year.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 8. Share Capital (continued)

	Shares Outstanding at the Beginning of the year	Shares Subscribed	Shares Redeemed	nares Outstanding at the End of the year
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF				
Class MXN Hedged (acc)	17,619,663	4,544,881	(3,413,828)	18,750,716
Class USD (acc)	1,975,894	1,217,863	(1,017,797)	2,175,960
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>1</sup>				
Class MXN Hedged (acc)	-	231,000	-	231,000
Class USD (acc)	-	66,525	-	66,525
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF				
Class MXN Hedged (acc)	2,299	-	-	2,299
Class USD (acc)	1,856,694	124,100	(645,500)	1,335,294
BetaBuilders US Treasury Bond UCITS ETF				
Class GBP Hedged (acc)	815,264	175,898	(420,674)	570,488
Class USD (acc)	143,876	357,711	(149,496)	352,091
Carbon Transition Global Equity (CTB) UCITS ETF				
Class USD (acc)	1,000,000	300,000	-	1,300,000
EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF				
Class EUR (acc)	353,000	149,578	(125,000)	377,578
EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF				
Class EUR (acc)	1,650,423	140,000	(11,848)	1,778,575
Class GBP Hedged (acc)†	-	1,877	-	1,877
EUR Ultra-Short Income UCITS ETF				
Class EUR (acc)	6,948,000	7,349,203	(3,040,000)	11,257,203
urope Research Enhanced Index Equity (ESG) UCITS ETF				
Class EUR (acc)	5,656,000	1,450,000	(948,075)	6,157,925
Class EUR (dist)†	-	60,000	-	60,000
GBP Ultra-Short Income UCITS ETF				
Class GBP (acc)	231,884	53,616	(93,802)	191,698
Class GBP (dist)	846,962	102,300	(39,720)	909,542
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF				
Class USD (acc)	16,695,000	3,600,000	(408,524)	19,886,476
Class USD (dist)†	-	8 <b>,</b> 572	-	8,572
Global Equity Multi-Factor UCITS ETF			4	
Class USD (acc)	1,000,000	900,000	(200,000)	1,700,000
Global High Yield Corporate Bond Multi-Factor UCITS ETF				
Class GBP Hedged (dist)	8,058,402	6,559,806	(1,622,082)	12,996,126
Class MXN Hedged (acc)	6,230	13,890	<del>-</del>	20,120
Class USD (acc) Class USD Hedged (acc)	666,290 601,437	345,000 3,000	(238,162) (70,221)	773,128 534,216
Global Research Enhanced Index Equity (ESG) UCITS ETF  Class EUR Hedged (acc)†	-	11,985	-	11,985
Class GBP Hedged (acc)†	-	12,229	-	12,229
Class USD (acc)	4,155,000	7,265,000	(1,958,342)	9,461,658
Class USD (dist) <sup>†</sup>	-	13,930	-	13,930
Sub-Eural Jaunched on 17 Enhruncy 2021				

 $<sup>^{1}\</sup>mathrm{Sub}\text{-Fund}$  launched on 17 February 2021.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

### 8. Share Capital (continued)

As at 31 December 2021 (continued)

	Shares Outstanding at the Beginning of the year	Shares Subscribed	Shares Redeemed	Shares Outstanding at the End of the year
US Equity Multi-Factor UCITS ETF				
Class USD (acc)	450,000	-	-	450,000
US Research Enhanced Index Equity (ESG) UCITS ETF				
Class USD (acc)	5,030,120	15,749,668	(1,900,000)	18,879,788
Class USD (dist)	2,534,649	50,000	(196,415)	2,388,234
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF				
Class EUR Hedged (acc) <sup>†</sup>	-	178,116	-	178,116
Class USD (acc)	795,045	60,386	(379,410)	476,021
Class USD (dist)	157,001	17,500	(158,204)	16,297
USD Emerging Markets Sovereign Bond UCITS ETF				
Class CHF Hedged (acc)	130,639	21,500	(26,307)	125,832
Class EUR Hedged (acc)	3,888,061	1,087,209	(2,424,419)	2,550,851
Class GBP Hedged (dist)	12,410	78,160	(26,221)	64,349
Class MXN Hedged (acc)	2,917	-	-	2,917
Class USD (acc)	766,346	454,571	(450,199)	770,718
Class USD (dist)	1,394,167	786,747	(990,799)	1,190,115
USD Ultra-Short Income UCITS ETF				
Class USD (acc)	802,927	1,291,263	(621,912)	1,472,278
Class USD (dist)	801,519	1,043,101	(753,155)	1,091,465
And the second s				

 $<sup>^{\</sup>dagger}$  Share Class launched in the current reporting year.

The capital of the ICAV is represented by the net assets attributable to holders of shares. The amount of net assets attributable to holders of shares can change significantly on a daily basis as the ICAV is subject to daily subscriptions and redemptions at the discretion of shareholders. The ICAV's objective when managing capital is to safeguard the ICAV's ability to continue as a going concern in order to provide returns for shareholders and benefits for other stakeholders and to maintain a strong capital base to support the development of the investment activities of the ICAV. Details of restrictions on redemptions are outlined in Note 10.1 (c).

### 9. Net asset value per share

The net asset value per share (the dealing NAV) is calculated by dividing the NAV of the portfolio attributable to each share class by the shares in issue at the Statement of Financial Position date, as detailed in the table below.

		Net asset value attributable to holders of redeemable participating shares	Net asset value per share	Net asset value attributable to holders of redeemable participating shares	Net asset value per share	Net asset value attributable to holders of redeemable participating shares	Net asset value per share
	Currency	As at 31 December	er 2022	As at 31 Decemb	er 2021	As at 31 Decemb	er 2020
AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>							
Class USD (acc)	USD	16,141,505	20.6942	=	-	-	-
Class USD (dist)	USD	4,032,566	20.1628	=	-	=	-
BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup>							
Class EUR Hedged (acc)	EUR	19,755,759	92.8163	-	=	-	-
Class USD (acc)	USD	26,171,295	93.6097	=	-	-	-
Class USD (dist)	USD	23,259,004	92.8841	-	=	-	-
Class USD Hedged (dist)	USD	13,790,380	101.1040	=	-	=	-
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF							
Class EUR (acc)	EUR	55,527,642	94.3856	141,147,166	99.36	75,446,626	100.19
BetaBuilders EUR Govt Bond UCITS ETF							
Class EUR (acc)	EUR	15,407,251	85.8955	44,817,861	105.61	19,628,907	109.66
BetaBuilders UK Gilt 1-5 yr UCITS ETF Class GBP (dist)	GBP	37,773,264	93.5179	28,316,882	99.95	27,792,208	102.06
1Cub Fund Jaunched on 15 February 2022							

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 9. Net asset value per share (continued)

	Currency	Net asset value attributable to holders of redeemable participating shares As at 31 Decem	Net asset value per share	participating	Net asset value per share	Net asset value attributable to holders of redeemable participating shares As at 31 Decemb	Net asset value per share per 2020
BetaBuilders US Equity UCITS ETF Class USD (acc) Class USD (dist)	USD USD	17,139,263 1,374,454	34.9270 33.2475	15,960,484 2,759,695	43.45 41.93	7,645,511 736,098	34.29 33.46
BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup> Class USD (acc) Class USD (dist)	USD USD	5,837,745 13,527,296	23.0752 23.0441	- -	-	- -	-
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF Class MXN Hedged (acc) Class USD (acc)	MXN USD	32,294,253,909 803,240,497	2,345.6242 102.7249	40,817,595,686 221,226,805	2,176.86 101.67	36,632,372,635 200,947,712	2,079.06 101.70
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>4</sup> Class MXN Hedged (acc) Class USD (acc)	MXN USD	1,332,830,624 38,193,176	2,274.4550 101.1705	485,999,814 6,636,561	2,103.90 99.76	-	-
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF Class MXN Hedged (acc) Class USD (acc)	MXN USD	22,216,581 91,017,859	2,629.4924 102.6824	5,898,300 142,609,077	2,565.59 106.80	5,668,532 199,618,291	2,465.65 107.51
BetaBuilders US Treasury Bond UCITS ETF Class GBP Hedged (acc) Class USD (acc)	GBP USD	125,600,763 60,396,718	72.8162 96.5644	48,212,698 39,153,778	84.51 111.20	70,846,887 16,423,764	86.90 114.15
Carbon Transition China Equity (CTB) UCITS ETF <sup>5</sup> Class USD (acc)	USD	4,998,005	24.9900	-	=	-	-
Carbon Transition Global Equity (CTB) UCITS ETF Class EUR Hedged (acc) <sup>†</sup> Class USD (acc)	EUR USD	1,845,366 201,107,418	25.5276 28.6140	- 45,732,683	- 35.18	- 28,458,340	- 28.46
China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Class USD (acc) Class USD (dist)	USD USD	4,352,530 4,180,183	20.2443 19.8887	- -	- -	- -	- -
Climate Change Solutions UCITS ETF <sup>7</sup> Class USD (acc)	USD	13,387,868	26.7757	-	-	-	-
EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF Class EUR (acc)	EUR	22,502,780	94.7170	38,888,508	102.99	36,478,606	103.34
EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF Class EUR (acc) Class GBP Hedged (acc) <sup>†</sup>	EUR GBP	106,156,217 14,655,003	92.7436 78.8425	190,979,217 169,431	107.38 90.27	179,318,442	108.65
EUR Ultra-Short Income UCITS ETF Class EUR (acc)	EUR	1,179,193,758	98.7583	1,117,139,131	99.24	692,128,450	99.62
Europe Research Enhanced Index Equity (ESG) UCITS ETF Class EUR (acc) Class EUR (dist) <sup>†</sup>	EUR EUR	314,620,566 708,804	33.3035 32.7634	226,364,123 2,240,505	36.76 37.34	165,493,447 -	29.26 -
Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup> Class EUR (acc) Class EUR (dist)	EUR EUR	89,406,986 4,493,839	24.9303 24.4551	- -	- -	- -	-
GBP Ultra-Short Income UCITS ETF Class GBP (acc) Class GBP (dist)	GBP GBP	25,581,837 95,450,157	102.4105 100.0048	19,537,444 91,441,801	101.92 100.54	23,636,362 85,506,463	101.93 100.96

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 9 August 2022. <sup>4</sup>Sub-Fund launched on 17 February 2021. <sup>5</sup>Sub-Fund launched on 6 December 2022. <sup>6</sup>Sub-Fund launched on 15 February 2022. <sup>7</sup>Sub-Fund launched on 14 June 2022. <sup>8</sup>Sub-Fund launched on 26 April 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 9. Net asset value per share (continued)

		Net asset value attributable to holders of redeemable participating shares	Net asset value per share	Net asset value attributable to holders of redeemable participating shares	Net asset value per share	Net asset value attributable to holders of redeemable participating shares	Net asset value per share
	Currency	As at 31 Decemb		As at 31 December		As at 31 Decemb	
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>9</sup>							
Class USD (acc) Class USD (dist) <sup>†</sup>	USD USD	829,609,397 3,715,400	26.3289 25.6259	667,498,768 289,245	33.57 33.74	575,535,068 -	34.47 -
Global Equity Multi-Factor UCITS ETF							
Class USD (acc)	USD	87,179,032	31.1354	58,997,329	34.70	28,309,224	28.31
Global High Yield Corporate Bond Multi-Factor UCITS ETF							
Class CHF Hedged (acc) <sup>†</sup>	CHF	281,310	93.9264	=	-	-	-
Class EUR Hedged (dist) <sup>†</sup>	EUR	1,235,968	89.9606	=	-	-	=
Class GBP Hedged (dist)	GBP	115,319,577	4.8497	73,871,017	5.68	46,278,644	5.74
Class MXN Hedged (acc)	MXN	17,697,000	2,459.9666	51,075,515	2,538.54	14,611,079	2,345.28
Class USD (acc)	USD	62,540,122	96.1314	82,692,247	106.96	69,751,932	104.69
Class USD (dist) <sup>†</sup>	USD	244,542	95.9741	=	-	-	=
Class USD Hedged (acc)	USD	12,795,573	97.5161	57,116,383	106.92	62,070,163	103.20
Global Research Enhanced Index Equity (ESG) UCITS ETF							
Class EUR Hedged (acc) <sup>†</sup>	EUR	39,223,648	30.0342	435,935	36.37	-	=
Class GBP Hedged (acc) <sup>†</sup>	GBP	124,090,042	25.2732	370,684	30.31	-	=
Class USD (acc)	USD	913,919,445	33.9760	389,715,188	41.19	138,014,823	33.22
Class USD (dist) <sup>†</sup>	USD	5,277,132	33.2177	568,929	40.84	-	-
Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>10</sup>							
Class CHF Hedged (acc)	CHF	472,534	21.4905	-	-	-	-
Class EUR Hedged (acc)	EUR	477,751	22.2821	-	-	-	-
Class JPY (acc)	JPY	35,337,775	2,876.2636	=	-	-	=
Class USD (acc)	USD	49,705,204	22.2534	-	-	-	-
Class USD (dist)	USD	6,759,934	21.7758	=	-	-	-
RMB Ultra-Short Income UCITS ETF <sup>11</sup>							
Class USD (acc)	USD	26,397,487	92.5714	=	-	=	=
Class USD (dist)	USD	23,114,061	91.0321	-	-	-	-
UK Equity Core UCITS ETF <sup>12</sup>							
Class GBP (acc)	GBP	5,855,314	26.1281	=	-	-	=
Class GBP (dist)	GBP	5,563,421	25.7685	-	-	-	-
US Equity Multi-Factor UCITS ETF <sup>13</sup>							
Class USD (acc)	USD	-	-	16,488,468	36.64	12,829,808	28.51
US Research Enhanced Index Equity (ESG) UCITS ETF							
Class CHF Hedged (acc) <sup>†</sup>	CHF	371,047	36.1186	-	-	-	-
Class EUR Hedged (acc) <sup>†</sup>	EUR	14,083,975	31.2623	-	-	-	-
Class USD (acc)	USD	1,872,036,657	36.8975	857,519,499	45.42	175,842,011	34.96
Class USD (dist)	USD	111,933,464	35.2226	104,479,592	43.75	86,273,299	34.04
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF							
Class EUR Hedged (acc) <sup>†</sup>	EUR	19,197,214	86.3592	18,770,715	105.39	-	-
Class GBP Hedged (acc) <sup>†</sup>	GBP	14,312,114	73.4177	-	-	-	=
Class USD (acc)	USD	50,576,615	104.7642	59,373,940	124.73	100,938,226	126.96
Class USD (dist)	USD	1,298,446	76.1373	1,534,890	94.18	16,103,555	102.57
USD Emerging Markets Sovereign Bond UCITS ETF							
Class CHF Hedged (acc)	CHF	10,012,600	82.6361	12,720,008	101.09	13,739,720	105.17
CL FURNILL I/( )	EUR	245,263,413	81.1669	252,670,352	99.05	399,804,202	102.83
Class EUR Hedged (acc)							
Class Eur Hedged (acc) Class GBP Hedged (dist)	GBP	4,807,862	60.6992	4,947,803	76.89	1,019,501	82.15
	GBP MXN	4,807,862 33,221,672	60.6992 2,276.3925	4,947,803 7,425,337	76.89 2,545.54		82.15 2,506.32
Class GBP Hedged (dist)						7,310,926	

<sup>&</sup>lt;sup>9</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

<sup>10</sup>Sub-Fund launched on 29 March 2022.

<sup>12</sup>Sub-Fund launched on 1 March 2022.

<sup>12</sup>Sub-Fund launched on 14 June 2022.

<sup>13</sup>Sub-Fund liquidated on 23 November 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 9. Net asset value per share (continued)

	Currency	Net asset value attributable to holders of redeemable participating shares As at 31 December	Net asset value per share	Net asset value attributable to holders of redeemable participating shares As at 31 Decemb	Net asset value per share	Net asset value attributable to holders of redeemable participating shares As at 31 Decemb	Net asset value per share er 2020
USD Ultra-Short Income UCITS ETF							
Class USD (acc)	USD	94,200,113	105.8716	154,225,070	104.75	84,028,957	104.65
Class USD (dist)	USD	131,007,620	100.5653	109,874,884	100.67	81,151,131	101.25

<sup>&</sup>lt;sup>†</sup> Share Class launched in the current or prior reporting year.

#### 10. Financial risk management

#### 10.1 Financial risk factors

The ICAV's activities expose it to a variety of financial risks: market risk (including price risk, foreign currency risk and interest rate risk); credit, counterparty and global exposure risk; and liquidity risk.

The Fund is also exposed to operational risks resulting from inadequate or failed processes or systems or due to external events that are neither market nor credit-related. Operational risk is inherent in the Management Company's activities and can manifest itself in various ways, including fraudulent acts, business interruptions, and inappropriate behaviour of employees, failure to comply with applicable laws and regulations or failure of vendors to perform in accordance with their arrangements. To monitor and control operational risk, J.P. Morgan Chase & Co. group of companies (the "Firm") maintains an Operational Risk Management Framework designed to enable the Firm to maintain a sound and well-controlled operational environment.

The Management Company has a risk management process in respect of each Sub-Fund which enables it to accurately measure, monitor and manage the various risks associated with the Fund.

#### (a) Market risk

Market risk represents the potential loss a Sub-Fund might suffer through holding market positions resulting from these main components: (i) price risk; (ii) foreign currency risk: and (iii) interest rate risk.

#### (i) Price risk

The ICAV is exposed to bond and equity securities price risk and financial derivative instruments price risk. This arises from investments held by Sub-Funds for which prices in the future are uncertain.

The Sub-Funds' market price risk is managed through diversification and selection of securities and other financial instruments, subject to compliance with the "Investment Restrictions" in the Prospectus and the UCITS Regulations.

The Sub-Funds are currently exposed to price risk due to their investments in equities, bonds and certain financial derivative instruments. The percentage of the net assets held in these investments are disclosed in the respective Schedule of Investments. The sensitivity analysis assumes a change in the market price of the equities and bonds while holding all other variables constant. In practice all other variables are unlikely to remain constant, and changes in some of the variables may be correlated. In addition, as the sensitivity analysis uses historical data as a basis for determining future events, it does not encompass all possible scenarios, particularly those that are of an extreme nature.

Based on historic movements and volatilities in these market prices, and management's knowledge and experience of the financial markets, a 10% and 5% movement in the market prices is considered 'reasonably possible' over a 12 month period as at 31 December 2022 and 31 December 2021, respectively.

At 31 December 2022 and 31 December 2021, had the fair value of investments increased by 10% and 5%, respectively, with all other variables held constant, the net asset attributable to shareholders for each Sub-Fund would have increased as set out in the table below:

Price Risk	Sensitivity	Analysis
I TICC KISK	Schisitivity	Allalysis

	Currency	31 December 2022	31 December 2021
AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD	1,972,804	-
BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup>	USD	8,310,886	-
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	EUR	5,520,824	7,011,577
BetaBuilders EUR Govt Bond UCITS ETF	EUR	1,525,832	2,226,191
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP	3,757,325	1,408,986
BetaBuilders US Equity UCITS ETF	USD	1,844,189	932,116
BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup>	USD	1,927,856	-
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	USD	246,965,828	103,703,423
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF	USD	10,696,720	1,437,353
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF	USD	9,176,457	7,126,387
BetaBuilders US Treasury Bond UCITS ETF	USD	21,013,928	5,150,895
Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup>	USD	498,479	-
Carbon Transition Global Equity (CTB) UCITS ETF	USD	20,280,816	2,282,776

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022. <sup>3</sup>Sub-Fund launched on 9 August 2022.

<sup>&</sup>lt;sup>4</sup>Sub-Fund launched on 6 December 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

#### 10. Financial risk management (continued)

#### 10.1 Financial risk factors (continued)

#### (a) Market risk (continued)

(i) Price risk (continued)

Price Risk Sensitivity Analysis

	Currency	31 December 2022	31 December 2021
China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup>	USD	848,651	
Climate Change Solutions UCITS ETF <sup>6</sup>	USD	1,303,132	
EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF	EUR	2,229,124	1,930,395
EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF	EUR	12,146,900	9,470,159
EUR Ultra-Short Income UCITS ETF	EUR	95,890,875	52,398,524
Europe Research Enhanced Index Equity (ESG) UCITS ETF	EUR	31,261,312	11,350,141
Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup>	EUR	9,322,171	=
GBP Ultra-Short Income UCITS ETF	GBP	6,098,816	4,146,560
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF8	USD	82,316,133	33,147,424
Global Equity Multi-Factor UCITS ETF	USD	8,683,828	2,939,810
Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD	21,157,316	11,787,563
Global Research Enhanced Index Equity (ESG) UCITS ETF	USD	110,167,241	19,362,050
Japan Research Enhanced Index Equity (ESG) UCITS ETF9	USD	5,737,448	-
RMB Ultra-Short Income UCITS ETF <sup>10</sup>	USD	4,614,678	-
UK Equity Core UCITS ETF <sup>6</sup>	GBP	1,121,313	-
US Equity Multi-Factor UCITS ETF <sup>11</sup>	USD	-	820,836
US Research Enhanced Index Equity (ESG) UCITS ETF	USD	199,296,483	47,999,031
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD	8,937,860	4,060,357
USD Emerging Markets Sovereign Bond UCITS ETF	USD	37,465,513	25,034,494
USD Ultra-Short Income UCITS ETF	USD	21,237,558	13,022,996

<sup>&</sup>lt;sup>5</sup>Sub-Fund launched on 15 February 2022.

### Index Tracking Risk

The Index Tracking Sub-Funds' investment policies as described in the Prospectus will be to track the performance of the relevant Index and consequently, none of the Sub-Fund, the Directors or the Management Company provides any warranty or guarantee for Index provider errors. Changes in the investments of any Sub-Fund and re-weightings of the relevant Index may give rise to various transaction costs (including in relation to the settlement of foreign currency transactions), operating expenses or inefficiencies which may adversely impact a Sub-Fund's tracking of an Index.

The Management Company employs a range of techniques designed to select those Index Securities which will create the representative sample that tracks the performance of the Index as closely as possible, including optimisation and stratified sampling techniques. Tracking error limits are monitored daily.

#### (ii) Currency risk

Since the instruments held by a Sub-Fund may be denominated in currencies different from its functional currency, the Sub-Fund may be affected unfavourably by exchange control regulations or fluctuations in currency rates.

As at 31 December 2022, the investments of the BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF, the BetaBuilders EUR Govt Bond UCITS ETF, the BetaBuilders US Small Cap Equity UCITS ETF and the EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF were acquired in the functional currency of the Sub-Fund, thus there is no foreign currency exposure.

As at 31 December 2021, the investments of the BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF, the BetaBuilders EUR Govt Bond UCITS ETF, the BetaBuilders UK Gilt 1-5 yr UCITS ETF, the EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF, the US Equity Multi-Factor UCITS ETF, the US Research Enhanced Index Equity (ESG) UCITS ETF and the USD Ultra-Short Income UCITS ETF were acquired in the functional currency of the Sub-Fund, thus there is no foreign currency exposure.

The tables overleaf summarise the Sub-Funds' exposure to currency risk and the sensitivity of the Sub-Fund's financial assets and liabilities to changes in foreign currency movements at 31 December 2022 and 31 December 2021. The analysis is based on the assumption that the relevant foreign exchange rates increased/decreased by the percentage disclosed in the tables overleaf, with all other variables held constant. The Investment Manager believes that a variation of 5% of the Sub-Fund's base currency against the non-base currency basket represents a reasonable estimate of how such currency exchange rates could vary.

<sup>&</sup>lt;sup>6</sup>Sub-Fund launched on 14 June 2022.

<sup>&</sup>lt;sup>7</sup>Sub-Fund launched on 26 April 2022.

<sup>&</sup>lt;sup>8</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

<sup>9</sup>Sub-Fund launched on 29 March 2022.

<sup>&</sup>lt;sup>10</sup>Sub-Fund launched on 1 March 2022. <sup>11</sup>Sub-Fund liquidated on 23 November 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (a) Market risk (continued)

(ii) Currency risk (continued)

The table below summarises the Sub-Funds' exposure to currency risk and the sensitivity of the Sub-Fund's financial assets and liabilities to changes in foreign currency movements at 31 December 2022:

	Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
AC Asia Pacific ex Japan Research Enhanced Index Eq	uity (ESG) UCITS ETF¹					
Net currency assets at 31 December 2022 were:						
AUD	USD	3,056	3,197,941	-	3,200,997	160,050
CNH	USD	-	1,249,413	-	1,249,413	62,471
HKD	USD	1,780	6,117,332	-	6,119,112	305,956
IDR	USD	-	397,759	-	397,759	19,888
INR	USD	259,068	2,302,629	-	2,561,697	128,085
KRW	USD	26,907	2,251,642	-	2,278,549	113,927
MYR	USD	-	180,545	-	180,545	9,027
PHP	USD	56	92,187	-	92,243	4,612
SGD	USD	1	553,043	-	553,044	27,652
THB	USD	(36)	406,785	-	406,749	20,337
TWD	USD	5,019	2,486,478	-	2,491,497	124,575
Total	USD	295,851	19,235,754	-	19,531,605	
BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup> Net currency assets at 31 December 2022 were:	lich	2 707 744		(051)	2 707 902	120.045
CNH	USD	2,797,744	-	(851)	2,796,893	139,845
CNY	USD	81,924,894	-	(956,517)	80,968,377	4,048,419
EUR	USD	4,367	-	474,712	479,079	23,954
Total	USD	84,727,005	-	(482,656)	84,244,349	
BetaBuilders UK Gilt 1-5 yr UCITS ETF Net currency assets at 31 December 2022 were: EUR	GBP	76	_	_	76	4
	_					·
Total	GBP	76	-	-	76	
BetaBuilders US Equity UCITS ETF Net currency assets at 31 December 2022 were:	usp	10			10	
EUR GBP	USD USD	18 1	-	-	18 1	1
	_					
Total	USD	19	-	-	19	
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF Net currency assets at 31 December 2022 were:						
EUR	USD	6,767	-	-	6,767	338
MXN	USD	(5,007)	-	(23,546,915)	(23,551,922)	(1,177,596)
Total	USD	1,760	-	(23,546,915)	(23,545,155)	
BetaBuilders US Treasury Bond 0-3 Months UCITS ETI Net currency assets at 31 December 2022 were:	F					
EUR	USD	217	-	-	217	11
			_	(2,167,924)	(2,164,645)	(108,232)
MXN	USD	3,279		(2,107,924)	(2,104,043)	(100,232)

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022. <sup>2</sup>Sub-Fund launched on 17 March 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (a) Market risk (continued)

(ii) Currency risk (continued)

	Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF Net currency assets at 31 December 2022 were:						
EUR	USD	1,545	-	-	1,545	77
MXN	USD	251	-	(26,888)	(26,637)	(1,332)
Total	USD	1,796	-	(26,888)	(25,092)	
BetaBuilders US Treasury Bond UCITS ETF Net currency assets at 31 December 2022 were:						
EUR	USD	12,421	_	_	12,421	621
GBP	USD	1,142	-	(353,306)	(352,164)	(17,608)
Total	USD	13,563	-	(353,306)	(339,743)	
Carbon Transition China Equity (CTB) UCITS ETF <sup>3</sup> Net currency assets at 31 December 2022 were:						
CNH	USD	-	1,676,888	-	1,676,888	83,844
HKD	USD	-	2,201,050	-	2,201,050	110,053
Total	USD		3,877,938	-	3,877,938	
Carbon Transition Global Equity (CTB) UCITS ETF Net currency assets at 31 December 2022 were:						
AUD	USD	8,377	4,209,681	(261)	4,217,797	210,890
CAD	USD	17,755	12,732,337	1,091	12,751,183	637,559
CHF	USD	1	7,863,638	(1,620)	7,862,019	393,101
DKK	USD	724	923,975	(55)	924,644	46,232
EUR	USD	5,347	21,411,129	45,655	21,462,131	1,073,107
GBP	USD	3,708	4,539,039	55	4,542,802	227,140
HKD	USD	(15,626)	2,827,276	(24)	2,811,626	140,581
ILS	USD	1,557	153,404	-	154,961	7,748
JPY	USD	(35,175)	12,671,777	(5,062)	12,631,540	631,577
NOK	USD	76	589,152	-	589,228	29,461
NZD	USD	1,082	248,287	-	249,369	12,468
SEK	USD	82	1,782,494	(64)	1,782,512	89,126
SGD	USD	1	282,935	-	282,936	14,147
Total	USD	(12,091)	70,235,124	39,715	70,262,748	
China A Research Enhanced Index Equity (ESG) UCIT Net currency assets at 31 December 2022 were:	S ETF <sup>4</sup>					
CNH	USD	-	8,479,677	-	8,479,677	423,984
	USD	_	6,833	-	6,833	342
CNY	UJD					
CNY EUR	USD	14	-	-	14	1

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 6 December 2022. <sup>4</sup>Sub-Fund launched on 15 February 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (a) Market risk (continued)

(ii) Currency risk (continued)

CHF		Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
CAD							
CHF							
CNI			-		-		17,617
DKK			-		-		41,728
EUR         USD         9         4,662,747         -         4,662,756         233           PP         USD         1,547         742,249         -         743,796         33           KRW         USD         1         772,211         -         772,222         3           SEK         USD         1         7,2131         -         772,322         3           SEK         USD         1,943         7,814,338         -         7,816,281           Total         USD         1,943         7,814,338         -         7,816,281           EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF           Ret Currency assets at 31 December 2022 were:         BUR         315         -         (481,479)         (481,164)         (24,41)           USD         EUR         3,325         -         480,479         (481,164)         (24,41)           USD         EUR         3,325         -         (481,479)         (481,164)         (24,41)           USD         EUR         3,204,236         -         -         66,789         3,271,025         163           CAD         EUR         3,232,296 </td <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>16,783</td>			-		-		16,783
Fig.			-		-		7,149
MRN					-		233,138
NOK					-		37,190
SEK					-		20,865
Note			1		-		3,862
EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF  Met currency assets at 31 December 2022 were:  GBP	SEK	USD	-	249,649	-	249,649	12,482
Net currency assets at 31 December 2022 were:   EUR   315   - (481,479)   (481,164)   (24,105)   (14,105)	Total	USD	1,943	7,814,338	-	7,816,281	
GBP		G) UCITS ETF					
Semantial   Company   Co	•	FIID	215		(401 470)	(4011(4)	(24.050)
EUR Ultra-Short Income UCITS ETF   Net currency assets at 31 December 2022 were:   AUD				-	(481,479)		(24,058)
EUR Ultra-Short Income UCITS ETF  Net currency assets at 31 December 2022 were:  AUD  EUR  SAUD  SAUD  EUR  SAUD  EUR  SAUD  EUR  SAUD  EUR  SAUD  EUR  SAUD  SAUD	USD	EUR	1,020	-	-	1,020	51
Net currency assets at 31 December 2022 were:   AUD	Total	EUR	1,335	-	(481,479)	(480,144)	
CAD EUR 15,332,976 - 827,625 16,160,601 808, GBP EUR 9,714,495 - 263,799 9,978,294 498 JPY EUR 85,718,885 - (2,685,886) 83,032,999 4,151, USD EUR 73,842,582 - 2,060,818 75,903,400 3,795  Total EUR 187,813,174 - 533,145 188,346,319  Europe Research Enhanced Index Equity (ESG) UCITS ETF  Net currency assets at 31 December 2022 were:  CHF EUR 49,546 18,132,547 - 18,182,093 909 GBP EUR 85,021 76,458,647 - 76,543,668 3,827 NOK EUR 19,535 - 19,535 SEK EUR 19,535 - 19,535 SEK EUR 537 12,389,812 - 12,390,349 619 USD EUR 33 - 33  Total EUR 154,672 157,032,182 - 157,186,854  Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Net currency assets at 31 December 2022 were:  USD EUR 1,329 120,618 - 121,947 6,							
GBP EUR 9,714,495 - 263,799 9,978,294 498 JPY EUR 85,718,885 - (2,685,886) 83,032,999 4,151, USD EUR 73,842,582 - 2,060,818 75,903,400 3,795  Total EUR 187,813,174 - 533,145 188,346,319  Europe Research Enhanced Index Equity (ESG) UCITS ETF  Net currency assets at 31 December 2022 were:  CHF EUR 49,546 18,132,547 - 18,182,093 909 GBP EUR 85,021 76,458,647 - 76,543,668 3,827 NOK EUR 19,535 19,535 SEK EUR 19,535 19,535 SEK EUR 537 12,389,812 - 12,390,349 619 USD EUR 33 - 3 3 33  Total EUR 154,672 157,032,182 - 157,186,854  Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Net currency assets at 31 December 2022 were:  USD EUR 1,329 120,618 - 121,947 6,				-		3,271,025	163,551
Second Research Enhanced Index Equity (ESG) UCITS ETF				-			808,030
EUR   73,842,582   - 2,060,818   75,903,400   3,795				-		9,978,294	498,915
Europe Research Enhanced Index Equity (ESG) UCITS ETF  Net currency assets at 31 December 2022 were:  CHF EUR - 50,051,176 - 50,051,176 2,502  DKK EUR 49,546 18,132,547 - 18,182,093 909  GBP EUR 85,021 76,458,647 - 76,543,668 3,827  NOK EUR 19,535 - 0 19,535  SEK EUR 537 12,389,812 - 12,390,349 619  USD EUR 33 - 3 3  Total EUR 154,672 157,032,182 - 157,186,854  Eurozone Research Enhanced Index Equity (ESG) UCITS ETF6  Net currency assets at 31 December 2022 were:  USD EUR 1,329 120,618 - 121,947 6,		EUR	85,718,885	-			4,151,650
Europe Research Enhanced Index Equity (ESG) UCITS ETF  Net currency assets at 31 December 2022 were:  CHF EUR - 50,051,176 - 50,051,176 2,502  DKK EUR 49,546 18,132,547 - 18,182,093 909  GBP EUR 85,021 76,458,647 - 76,543,668 3,827  NOK EUR 19,535 19,535  SEK EUR 537 12,389,812 - 19,535  SEK EUR 33 - 33  Total EUR 33 33  Total EUR 154,672 157,032,182 - 157,186,854  Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Net currency assets at 31 December 2022 were:  USD EUR 1,329 120,618 - 121,947 6,	USD	EUR	73,842,582	-	2,060,818	75,903,400	3,795,170
Net currency assets at 31 December 2022 were:         CHF       EUR       - 50,051,176       - 50,051,176       2,502         DKK       EUR       49,546       18,132,547       - 18,182,093       909         GBP       EUR       85,021       76,458,647       - 76,543,668       3,827         NOK       EUR       19,535       - 19,535       - 19,535       - 19,535       - 19,535       - 12,390,349       619         USD       EUR       33       - 33       - 33       - 33       - 157,186,854         Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Net currency assets at 31 December 2022 were:         USD       EUR       1,329       120,618       - 121,947       6,000	Total	EUR	187,813,174	-	533,145	188,346,319	
DKK         EUR         49,546         18,132,547         - 18,182,093         909           GBP         EUR         85,021         76,458,647         - 76,543,668         3,827           NOK         EUR         19,535         - 19,535         - 19,535         - 19,535         - 12,390,349         619           USD         EUR         33         - 33         - 33         - 33         - 157,186,854           Eurozone Research Enhanced Index Equity (ESG) UCITS ETF6         Net currency assets at 31 December 2022 were:         USD         EUR         1,329         120,618         - 121,947         6,000		TS ETF					
GBP         EUR         85,021         76,458,647         - 76,543,668         3,827           NOK         EUR         19,535         - 19,535         - 19,535         - 19,535         - 12,390,349         619           USD         EUR         33         33         - 33         - 33         - 157,186,854           Eurozone Research Enhanced Index Equity (ESG) UCITS ETF6           Net currency assets at 31 December 2022 were:           USD         EUR         1,329         120,618         - 121,947         6,6	CHF	EUR	-	50,051,176	-	50,051,176	2,502,559
NOK EUR 19,535 19,535 SEK EUR 537 12,389,812 - 12,390,349 619 USD EUR 33 33 Total EUR 154,672 157,032,182 - 157,186,854  Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Net currency assets at 31 December 2022 were: USD EUR 1,329 120,618 - 121,947 6,	DKK	EUR	49,546	18,132,547	-	18,182,093	909,105
SEK         EUR         537         12,389,812         - 12,390,349         619           USD         EUR         33         33         - 33           Total         EUR         154,672 157,032,182         - 157,186,854           Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Net currency assets at 31 December 2022 were:           USD         EUR         1,329         120,618         - 121,947         6,800	GBP		85,021	76,458,647	-	76,543,668	3,827,183
USD         EUR         33         -         -         33           Total         EUR         154,672         157,032,182         -         157,186,854           Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Net currency assets at 31 December 2022 were:           USD         EUR         1,329         120,618         -         121,947         6,800	NOK		19,535	-	-		977
Total EUR 154,672 157,032,182 - 157,186,854  Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Net currency assets at 31 December 2022 were:  USD EUR 1,329 120,618 - 121,947 6,	SEK	EUR	537	12,389,812	-	12,390,349	619,517
Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Net currency assets at 31 December 2022 were:  USD EUR 1,329 120,618 - 121,947 6,	USD	EUR	33	-	-	33	2
Net currency assets at 31 December 2022 were:         USD       EUR       1,329       120,618       -       121,947       6,	Total	EUR	154,672	157,032,182	-	157,186,854	
USD EUR 1,329 120,618 - 121,947 6,		CITS ETF <sup>6</sup>					
	,	EUR	1,329	120,618	-	121,947	6,097
Total EUR 1.329 120.618 - 121.947	Total	EUR	1,329	120,618		121,947	

<sup>&</sup>lt;sup>5</sup>Sub-Fund launched on 14 June 2022. <sup>6</sup>Sub-Fund launched on 26 April 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (a) Market risk (continued)

(ii) Currency risk (continued)

	Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
GBP Ultra-Short Income UCITS ETF						
Net currency assets at 31 December 2022 were:						
AUD	GBP	569,637	-	(2,635)	567,002	28,350
CAD	GBP	2,147,949	-	17,536	2,165,485	108,274
EUR	GBP	3,561,012	-	(103,674)	3,457,338	172,867
JPY	GBP	6,949,316	-	(312,874)	6,636,442	331,822
USD	GBP	5,852,346	-	4,971	5,857,317	292,866
Total	GBP	19,080,260	-	(396,676)	18,683,584	
Global Emerging Markets Research Enhanced Net currency assets at 31 December 2022 were:	Index Equity (ESG) UCITS E	ΓF <sup>7</sup>				
AED	USD	-	7,047,511	-	7,047,511	352,376
BRL	USD	671,433	39,785,014	-	40,456,447	2,022,822
CLP	USD	=	521,494	_	521,494	26,075
CNH	USD	-	58,036,889	-	58,036,889	2,901,844
CNY	USD	(3,478)	-	-	(3,478)	(174)
EUR	USD	337	3,953,052	-	3,953,389	197,669
GBP	USD	-	5,229,288	-	5,229,288	261,464
HKD	USD	29,388	202,830,078	-	202,859,466	10,142,973
HUF	USD	543	3,412,900	-	3,413,443	170,672
IDR	USD	-	15,445,569	-	15,445,569	772,278
INR	USD	6,011	100,592,848	-	100,598,859	5,029,943
KRW	USD	1,210,380	100,349,769	-	101,560,149	5,078,007
KWD	USD	86,607	2,324,003	-	2,410,610	120,531
MXN	USD	-	24,616,094	-	24,616,094	1,230,805
MYR	USD	-	10,239,575	-	10,239,575	511,979
PHP	USD	(17,537)	1,618,796	-	1,601,259	80,063
PLN	USD	52,669	5,189,038	-	5,241,707	262,085
QAR	USD	38	5,781,883	-	5,781,921	289,096
RUB	USD	-	5,906	-	5,906	295
SAR	USD	147	29,742,115	-	29,742,262	1,487,113
THB	USD	(993)	22,446,384	-	22,445,391	1,122,270
TWD	USD	206,679	108,376,086	-	108,582,765	5,429,138
ZAR	USD	(3,919)	34,208,422	-	34,204,503	1,710,225
	USD	2,238,305	781,752,714		783,991,019	

<sup>&</sup>lt;sup>7</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (a) Market risk (continued)

(ii) Currency risk (continued)

	Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
Global Equity Multi-Factor UCITS ETF						
Net currency assets at 31 December 2022 were:		5 707	2 247 222		2 222 222	444.450
AUD	USD	5,707	2,217,332	-	2,223,039	111,152
CAD	USD	27,237	6,948,145	-	6,975,382	348,769
CHF	USD	242	1,861,173	-	1,861,415	93,071
DKK	USD	1,884	684,766	-	686,650	34,333
EUR GBP	USD USD	35,482 14,868	7,209,209 3,846,368	-	7,244,691 3,861,236	362,235 193,062
HKD	USD	2,093	961,337	_	963,430	48,172
JPY	USD	18,693	6,254,161	-	6,272,854	313,643
KRW	USD	39,018	1,228,535	_	1,267,553	63,378
NOK	USD	17,747	1,226,555 818,471	-	836,218	41,811
NZD	USD	1,085	219,654	_	220,739	11,037
SEK	USD	2,611	1,426,625	_	1,429,236	71,462
SGD	USD		76,989	-	76,989	3,849
Total	USD	166,667	33,752,765	-	33,919,432	
Global High Yield Corporate Bond Multi-Factor UC Net currency assets at 31 December 2022 were:						
CHF	USD	1,044	-	4,638	5,682	284
EUR	USD	37,262,492	-	(671,987)	36,590,505	1,829,525
GBP	USD	4,674	-	(245,505)	(240,831)	(12,042)
MXN	USD	-	-	(12,645)	(12,645)	(632)
Total	USD	37,268,210	-	(925,499)	36,342,711	
Global Research Enhanced Index Equity (ESG) UCI Net currency assets at 31 December 2022 were:	rs etf					
AUD	USD	(100,073)	22,779,904	(24,452)	22,655,379	1,132,769
CAD	USD	(125,806)	36,665,877	54,414	36,594,485	1,829,724
CHF	USD	(189,012)	33,124,997	(106,187)	32,829,798	1,641,490
DKK	USD	16,876	11,993,144	(41,089)	11,968,931	598,447
EUR	USD	287,675	103,302,176	392,032	103,981,883	5,199,094
GBP	USD	(239,518)	50,767,130	(226,707)	50,300,905	2,515,045
HKD	USD	(59,319)	10,166,696	(783)	10,106,594	505,330
JPY	USD	(241,628)	67,120,975	(476,840)	66,402,507	3,320,125
NOK	USD	2,582	-	-	2,582	129
NZD	USD	1	-	-	1	-
SEK	USD	2,541	8,229,245	(4,848)	8,226,938	411,347
SGD	USD	(21,857)	3,562,312	(8,140)	3,532,315	176,616
Total	USD	(667,538)	347,712,456	(442,600)	346,602,318	
Japan Research Enhanced Index Equity (ESG) UCIT Net currency assets at 31 December 2022 were:	S ETF <sup>8</sup>					
CHF	USD	724	-	12,226	12,950	648
EUR	USD	3	-	12,483	12,486	624
JPY	USD	87,015	57,374,475	(45,386)	57,416,104	2,870,805

<sup>&</sup>lt;sup>8</sup>Sub-Fund launched on 29 March 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (a) Market risk (continued)

(ii) Currency risk (continued)

	Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
RMB Ultra-Short Income UCITS ETF <sup>9</sup>						
Net currency assets at 31 December 2022 were:						
CNH	USD	8,804,149	-	-	8,804,149	440,207
CNY	USD	40,706,915	-	-	40,706,915	2,035,346
EUR	USD	655	-	-	655	33
Total	USD	49,511,719	-	-	49,511,719	
UK Equity Core UCITS ETF <sup>10</sup>						
Net currency assets at 31 December 2022 were:						
EUR	GBP	6,543	-	-	6,543	327
USD	GBP	(9)	-	-	(9)	
Total	GBP	6,534	-	-	6,534	
US Research Enhanced Index Equity (ESG) UCITS Net currency assets at 31 December 2022 were:	ETF					
CHF	USD	74	-	9,131	9,205	460
EUR	USD	6,299	-	424,712	431,011	21,551
Total	USD	6,373	-	433,843	440,216	
USD Corporate Bond Research Enhanced Index (I Net currency assets at 31 December 2022 were:	ESG) UCITS ETF					
*	USD	(1,390,961)	-	415,451	(975,510)	
EUR	นวบ	(1,570,701)			(773,310)	(48,776)
EUR GBP	USD	2,142	-	(31,009)	(28,867)	(48,776) (1,443)
			-	(31,009)		
GBP	USD	2,142	-		(28,867)	
GBP  Total  USD Emerging Markets Sovereign Bond UCITS ET	USD	2,142	-		(28,867)	
GBP  Total  USD Emerging Markets Sovereign Bond UCITS ET Net currency assets at 31 December 2022 were:	usd usd	(1,388,819)		384,442	(28,867)	(1,443)
GBP  Total  USD Emerging Markets Sovereign Bond UCITS ET Net currency assets at 31 December 2022 were: CHF	usd usd "F usd	2,142 (1,388,819)	- - - - -	<b>384,442</b> 245,928	(28,867) (1,004,377) 246,644	(1,443) 12,332
GBP Total  USD Emerging Markets Sovereign Bond UCITS ET Net currency assets at 31 December 2022 were: CHF EUR	USD USD "F USD USD	2,142 (1,388,819) 716 18,567	- - - - - - -	<b>384,442</b> 245,928 6,989,773	(28,867) (1,004,377) 246,644 7,008,340	(1,443) 12,332 350,417
GBP Total  USD Emerging Markets Sovereign Bond UCITS ET Net currency assets at 31 December 2022 were: CHF EUR GBP	USD USD "F USD USD USD	2,142 (1,388,819) 716 18,567 24	- - - - - -	245,928 6,989,773 (11,229)	(28,867) (1,004,377) 246,644 7,008,340 (11,205)	(1,443) 12,332 350,417 (560)
GBP Total  USD Emerging Markets Sovereign Bond UCITS ET Net currency assets at 31 December 2022 were: CHF EUR GBP MXN  Total  USD Ultra-Short Income UCITS ETF	USD  USD  USD  USD  USD  USD  USD	2,142 (1,388,819) 716 18,567 24 54	- - - -	245,928 6,989,773 (11,229) (23,903)	(28,867) (1,004,377) 246,644 7,008,340 (11,205) (23,849)	(1,443) 12,332 350,417 (560)
GBP Total  USD Emerging Markets Sovereign Bond UCITS ET Net currency assets at 31 December 2022 were: CHF EUR GBP MXN  Total	USD  USD  USD  USD  USD  USD  USD	2,142 (1,388,819) 716 18,567 24 54	- - - -	245,928 6,989,773 (11,229) (23,903)	(28,867) (1,004,377) 246,644 7,008,340 (11,205) (23,849)	(1,443) 12,332 350,417 (560)

<sup>&</sup>lt;sup>9</sup>Sub-Fund launched on 1 March 2022. <sup>10</sup>Sub-Fund launched on 14 June 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (a) Market risk (continued)

(ii) Currency risk (continued)

The table below summarises the Sub-Funds' exposure to currency risk and the sensitivity of the Sub-Fund's financial assets and liabilities to changes in foreign currency movements at 31 December 2021:

	Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
BetaBuilders US Equity UCITS ETF						
Net currency assets at 31 December 2021 were: GBP	USD	8,397			8,397	420
udr	usb	0,397			0,397	420
Total	USD	8,397	-	-	8,397	
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF						
Net currency assets at 31 December 2021 were:						
MXN	USD	(14,646,636)	-	139,798,115	125,151,479	6,257,574
Total	USD	(14,646,636)	-	139,798,115	125,151,479	
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>1</sup> Net currency assets at 31 December 2021 were:						
MXN	USD	1,230	-	1,631,836	1,633,066	81,653
Total	USD	1,230	-	1,631,836	1,633,066	
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF						
Net currency assets at 31 December 2021 were:						
MXN	USD	-	-	19,835	19,835	992
Total	USD		-	19,835	19,835	
BetaBuilders US Treasury Bond UCITS ETF						
Net currency assets at 31 December 2021 were:						
GBP	USD	1,150	-	982,262	983,412	49,171
Total	USD	1,150	-	982,262	983,412	
Carbon Transition Global Equity (CTB) UCITS ETF						
Net currency assets at 31 December 2021 were:						
AUD	USD	7,522	992,205	-	999,727	49,986
CAD	USD	6,366	2,176,355	-	2,182,721	109,136
THF	USD	-	1,772,454	-	1,772,454	88,623
DKK	USD	1,024	210,905	-	211,929	10,596
EUR	USD	6,186	4,991,144	-	4,997,330	249,867
GBP	USD	1,834	1,085,292	-	1,087,126	54,356
HKD	USD	175	363,102	-	363,277	18,164
LS	USD	173	19,400	-	19,573	979
PY	USD	1,503	2,908,470	-	2,909,973	145,499
NOK	USD	24	24,933	-	24,957	1,248
NZD	USD	79	29,545	-	29,624	1,481
SEK	USD	1,100	219,300	-	220,400	11,020
	LICE	354	52,210	_	52,564	2,628
SGD	USD	554	32,210		32,304	2,020

 $<sup>^{1}\</sup>mathrm{Sub}\text{-Fund}$  launched on 17 February 2021.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (a) Market risk (continued)

(ii) Currency risk (continued)

	Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
EUR Corporate Bond Research Enhanced Index (ES Net currency assets at 31 December 2021 were:	GG) UCITS ETF					
GBP	EUR	1	-	1,431	1,432	72
USD	EUR	945	-	-	945	47
Total	EUR	946	-	1,431	2,377	
EUR Ultra-Short Income UCITS ETF Net currency assets at 31 December 2021 were:						
AUD	EUR	19,296,188	-	(293,836)	19,002,352	950,118
CAD	EUR	31,222,114	-	(417,945)	30,804,169	1,540,208
GBP	EUR	42,333,434	-	(573,455)	41,759,979	2,087,999
JPY	EUR	19,584,943	-	514,331	20,099,274	1,004,964
USD	EUR	143,607,265	-	91,844	143,699,109	7,184,955
Total	EUR	256,043,944	-	(679,061)	255,364,883	
Europe Research Enhanced Index Equity (ESG) UCI	ITS ETF					
Net currency assets at 31 December 2021 were:						
CHF	EUR	(321,973)	39,659,806	-	39,337,833	1,966,892
DKK	EUR	(66,068)	10,830,782	-	10,764,714	538,236
GBP	EUR	87,205	46,474,119	-	46,561,324	2,328,066
NOK	EUR	20,481	-	-	20,481	1,024
SEK USD	EUR EUR	(77,266) 187	9,526,559 -	-	9,449,293 187	472,465 9
Total	EUR	(357,434)	106,491,266	-	106,133,832	
GBP Ultra-Short Income UCITS ETF						
Net currency assets at 31 December 2021 were:						
AUD	GBP	2,914,881	-	(7,023)	2,907,858	145,393
CAD	GBP	2,732,286	-	(8,900)	2,723,386	136,169
EUR	GBP	8,217,583	-	100,687	8,318,270	415,914
JPY	GBP	1	-	-	1	-,
USD	GBP	9,793,531	-	150,834	9,944,365	497,218

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

#### (a) Market risk (continued)

(ii) Currency risk (continued)

	Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
Global Emerging Markets Research Enhanced II Net currency assets at 31 December 2021 were:	ndex Equity (ESG) UCITS ETF	:				
AED	USD	_	2,241,369	_	2,241,369	112,068
BRL	USD	90,368	22,635,705	_	22,726,073	1,136,304
CLP	USD	70,300	472,021	_	472,021	23,601
CNH	USD	-	43,221,361	-	43,221,361	2,161,068
EUR	USD	32,193	2,686,356	-	2,718,549	135,927
GBP	USD	52,175	2,270,169	-	2,270,169	113,508
HKD	USD	75,777	162,724,398	-	162,800,175	8,140,009
HUF	USD	-	2,594,508	_	2,594,508	129,725
IDR	USD	-	10,929,618	_	10,929,618	546,481
INR	USD	60,114	63,827,114	_	63,887,228	3,194,361
KRW	USD	563,779	90,185,192	_	90,748,971	4,537,449
KWD	USD	18,921	1,195,147	_	1,214,068	60,703
MXN	USD	29,601	18,649,003	_	18,678,604	933,930
MYR	USD	19,402	6,730,734	_	6,750,136	337,507
PHP	USD	2,527	2,739,587	_	2,742,114	137,106
PLN	USD	57,844	3,486,755	_	3,544,599	177,230
QAR	USD	1	2,351,994	_	2,351,995	117,600
RUB	USD	200,833	2,331,994	_	2,551,995	10,042
SAR	USD	200,033	19,648,129	_	19,648,129	982,406
THB	USD	_	12,419,969	_	12,419,969	620,998
TRY	USD	_	1,175,856	_	1,175,856	58,793
TWD	USD	159,638	101,115,846	-	101,275,484	5,063,774
ZAR	USD	73,504	24,084,049	_	24,157,553	1,207,878
ZAR	นวบ	73,304	24,004,049		24,157,555	1,207,070
Total	USD	1,384,502	597,384,880	-	598,769,382	
Global Equity Multi-Factor UCITS ETF Net currency assets at 31 December 2021 were:						
AUD	USD	(78,121)	1,357,358	-	1,279,237	63,962
CAD	USD	(228,712)	4,156,093	-	3,927,381	196,369
CHF	USD	(81,183)	1,383,611	-	1,302,428	65,121
DKK	USD	(24,979)	437,870	-	412,891	20,645
EUR	USD	(271,437)	4,974,102	886	4,703,551	235,178
GBP	USD	(118,271)	2,115,796	-	1,997,525	99,876
HKD	USD	(42,391)	721,045	-	678,654	33,933
JPY	USD	(213,171)	4,066,347	-	3,853,176	192,659
KRW	USD	(31,892)	733,404	-	701,512	35,076
NOK	USD	(20,159)	425,748	-	405,589	20,279
NZD	USD	(7,938)	132,168	-	124,230	6,212
SEK	USD	(89,034)	1,511,646	-	1,422,612	71,131
SGD	USD	471	25,220	-	25,691	1,285

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

#### 10. Financial risk management (continued)

#### 10.1 Financial risk factors (continued)

#### (a) Market risk (continued)

(ii) Currency risk (continued)

As at 31 December 2021 (continued)

	Currency	Monetary exposure	Non-monetary exposure	Forward currency contracts	Total	Impact on NAV should currency move by 5%
Global High Yield Corporate Bond Multi-Factor UCITS  Net currency assets at 31 December 2021 were:	ETF					
EUR	USD	41,664,269	_	(189,681)	41,474,588	2,073,729
GBP	USD	827	-	1,527,895	1,528,722	76,436
MXN	USD	1	-	95,640	95,641	4,782
	000	-		75,0.0	75,0 .1	.,, 02
Total	USD	41,665,097	-	1,433,854	43,098,951	
Global Research Enhanced Index Equity (ESG) UCITS E	TF					
Net currency assets at 31 December 2021 were:			7 202 207	(224)	7,000,547	240 477
AUD	USD	6,061	7,203,807	(321)	7,209,547	360,477
CAD	USD	26,395	11,289,266	(166)	11,315,495	565,775
CHF	USD	(259,140)	12,403,914	(346)	12,144,428	607,221
DKK	USD	(65,787)	3,376,510	(53)	3,310,670	165,534
EUR GBP	USD USD	44,072 12,589	37,736,405 14,512,797	1,822	37,782,299 14,535,948	1,889,115 726,797
HKD	USD	(50,904)		10,562		726,797 147,785
JPY	USD	(393,521)	3,006,639 25,532,305	(31) 594	2,955,704 25,139,378	1,256,969
NOK	USD	4,005	25,552,505	J94 -	4,005	1,230,909
NZD	USD	4,005	80,319	-	80,319	4,016
SEK	USD	(62,782)	2,989,544	(20)	2,926,742	146,337
SGD	USD	2,039	1,065,285	(39)	1,067,285	53,364
300						33,304
Total	USD	(736,973)	119,196,791	12,002	118,471,820	
USD Corporate Bond Research Enhanced Index (ESG) Net currency assets at 31 December 2021 were:	UCITS ETF					
EUR	USD	849	-	123,862	124,711	6,236
Total	USD	849	-	123,862	124,711	
USD Emerging Markets Sovereign Bond UCITS ETF Net currency assets at 31 December 2021 were:						
CHF	USD	234	-	217,873	218,107	10,905
EUR	USD	8,294	-	2,079,754	2,088,048	104,402
GBP	USD	(21,222)	-	102,504	81,282	4,064
MXN	USD	-	-	24,896	24,896	1,245
Total	USD	(12,694)	-	2,425,027	2,412,333	

#### (iii) Interest rate risk

Interest rate risk is defined as the risk that the fair value of financial assets and liabilities and future cash flows will fluctuate because of changes in market interest rates.

As at 31 December 2022, all Sub-Funds, with the exception of the AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF, the BetaBuilders US Equity UCITS ETF, the BetaBuilders US Small Cap Equity UCITS ETF, the Carbon Transition China Equity (CTB) UCITS ETF, the Carbon Transition Global Equity (CTB) UCITS ETF, the China A Research Enhanced Index Equity (ESG) UCITS ETF, the Europe Research Enhanced Index Equity (ESG) UCITS ETF, the Europe Research Enhanced Index Equity (ESG) UCITS ETF, the Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF, the Japan Research Enhanced Index Equity (ESG) UCITS ETF, the Japan Research Enhanced Index Equity (ESG) UCITS ETF, the US Equity Core UCITS ETF, the US Equity Multi-Factor UCITS ETF and the US Research Enhanced Index Equity (ESG) UCITS ETF, are exposed to interest rate risk through their investments in liquidity instruments and bonds. These securities are disclosed in the Schedules of Investments.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 10. Financial risk management (continued)

#### 10.1 Financial risk factors (continued)

#### (a) Market risk (continued)

(iii) Interest rate risk (continued)

As at 31 December 2021, all Sub-Funds, with the exception of the BetaBuilders US Equity UCITS ETF, the Carbon Transition Global Equity (CTB) UCITS ETF, the Equity Long-Short UCITS ETF, the Europe Research Enhanced Index Equity (ESG) UCITS ETF, the Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF, the Global Equity Multi-Factor UCITS ETF, the Global Research Enhanced Index Equity (ESG) UCITS ETF, the Managed Futures UCITS ETF, the US Equity Multi-Factor UCITS ETF and the US Research Enhanced Index Equity (ESG) UCITS ETF, are exposed to interest rate risk through their investments in liquidity instruments and bonds.

The Sub-Funds are also exposed to interest rate risk on cash balances and bank overdrafts, if any. The underlying collective investment schemes may face interest rate risk; however, the Management Company monitors the exposure as part of their market risk analysis.

The Sub-Funds may also have indirect exposure to interest rate risk through their investments into ETFs, however, the Management Company monitors the exposure as part of their market risk analysis.

The Sub-Funds may also have indirect exposure to interest rate risk through their investments into financial futures contracts, whereby the value of the underlying asset may fluctuate as a result of a change in interest rates.

The sensitivity analysis is based on a change in one variable while holding all other variables constant. In practice this is unlikely to occur, and changes in some of the assumptions may be correlated. As the sensitivity analysis uses historical data as a basis for determining future events, it does not encompass all possible scenarios, particularly those that are of an extreme nature.

At 31 December 2022 and 31 December 2021 had market interest rates strengthened by 5%, the Net assets attributable to holders of redeemable participating shares of the Sub-Funds would have decreased as set out in the following tables. The Investment Manager believes that a variation of 5% represents a reasonable estimate of how interest rates may have potentially varied.

A weakening of the interest rate would have resulted in an equal and opposite effect on the financial statements, assuming that all other variables remained constant.

Short-term financial assets and financial liabilities are those with a residual maturity date of less than one year and long-term financial assets and financial liabilities are those with a residual maturity date of greater than one year.

Interest rate risk as at 31 December 2022:

	Currency	Floating interest rate	Fixed interest rate	Non-interest bearing*	Total	Sensitivity analysis of 5%
BetaBuilders China Aggregate Bon	d UCITS ETF <sup>1</sup>					
Short-term financial assets	USD	210,075	1,616,669	3,080,612	4,907,356	
Long-term financial assets	USD	-	81,492,187	-	81,492,187	
Short-term financial liabilities	USD	-	-	(2,126,942)	(2,126,942)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	210,075	83,108,856	953,670	84,272,601	236,936
BetaBuilders EUR Govt Bond 1-3 yr	· UCITS ETF					
Short-term financial assets	EUR	42,862	161,023	2,592,508	2,796,393	
Long-term financial assets	EUR	-	55,047,218	=	55,047,218	
Short-term financial liabilities	EUR	-	-	(2,316,422)	(2,316,422)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	42,862	55,208,241	276,086	55,527,189	53,035
BetaBuilders EUR Govt Bond UCITS	S ETF					
Short-term financial assets	EUR	9,137	-	495,126	504,263	
Long-term financial assets	EUR	-	15,258,323	-	15,258,323	
Short-term financial liabilities	EUR	-	-	(355,585)	(355,585)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	9,137	15,258,323	139,541	15,407,001	55,102

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 17 March 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (a) Market risk (continued)

(iii) Interest rate risk (continued)

	Currency	Floating interest rate	Fixed interest rate	Non-interest bearing*	Total	Sensitivity analysis of 5%
BetaBuilders UK Gilt 1-5 yr UCITS E	TF					
Short-term financial assets	GBP	26,325	-	3,573,490	3,599,815	
Long-term financial assets	GBP	-	37,573,253	-	37,573,253	
Short-term financial liabilities	GBP	-	-	(3,394,481)	(3,394,481)	
Long-term financial liabilities	GBP	-	-	-	-	
Total	GBP	26,325	37,573,253	179,009	37,778,587	52,614
BetaBuilders US Treasury Bond 0-1	l yr UCITS ETF					
Short-term financial assets	USD	1,756,322	2,488,307,436	152,000,457	2,642,064,215	
Long-term financial assets	USD	-	-	-	-	
Short-term financial liabilities	USD	(5,798)	(18,649,152)	(162,855,101)	(181,510,051)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	1,750,524	2,469,658,284	(10,854,644)	2,460,554,164	367,305
BetaBuilders US Treasury Bond 0-3	3 Months UCITS ETF					
Short-term financial assets	USD	73,040	111,771,604	25,636,736	137,481,380	
Long-term financial assets	USD	-	-	-	-	
Short-term financial liabilities	USD	(648)	(4,804,400)	(26,082,804)	(30,887,852)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	72,392	106,967,204	(446,068)	106,593,528	5,812
BetaBuilders US Treasury Bond 1-3	yr UCITS ETF					
Short-term financial assets	USD	66,235	-	6,940,048	7,006,283	
Long-term financial assets	USD	-	91,764,567	-	91,764,567	
Short-term financial liabilities	USD	-	-	(6,613,552)	(6,613,552)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	66,235	91,764,567	326,496	92,157,298	87,099
BetaBuilders US Treasury Bond UC	ITS ETF					
Short-term financial assets	USD	217,039	2,073,143	6,363,953	8,654,135	
Long-term financial assets	USD	-	208,797,250	-	208,797,250	
Short-term financial liabilities	USD	-	(731,118)	(5,235,831)	(5,966,949)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	217,039	210,139,275	1,128,122	211,484,436	677,956
EUR Corporate Bond 1-5 yr Researd	ch Enhanced Index (ESG) L	ICITS ETF				
Short-term financial assets	EUR	33,599	_	687,777	721,376	
Long-term financial assets	EUR	5,588,089	16,703,155	- · ·	22,291,244	
Short-term financial liabilities	EUR	-,,	-	(511,496)	(511,496)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	5,621,688	16,703,155	176,281	22,501,124	30,648
Total	LUN	5,021,000	10,703,133	1/0,201	22,301,124	30,040

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

#### (a) Market risk (continued)

(iii) Interest rate risk (continued)

	Currency	Floating interest rate	Fixed interest rate	Non-interest bearing*	Total	Sensitivity analysis of 5%
EUR Corporate Bond Research Enh	nanced Index (ESG) UCITS ET	F				
Short-term financial assets	EUR	250,499	-	3,668,779	3,919,278	
Long-term financial assets	EUR	26,768,482	94,700,522	-	121,469,004	
Short-term financial liabilities	EUR	-	-	(2,731,032)	(2,731,032)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	27,018,981	94,700,522	937,747	122,657,250	273,24
EUR Ultra-Short Income UCITS ETF						
Short-term financial assets	EUR	296,724,892	756,762,754	9,807,622	1,063,295,268	
Long-term financial assets	EUR	113,376,687	21,493,329	-	134,870,016	
Short-term financial liabilities	EUR	-	-	(15,025,978)	(15,025,978)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	410,101,579	778,256,083	(5,218,356)	1,183,139,306	86,302
GBP Ultra-Short Income UCITS ETF						
Short-term financial assets	GBP	63,394,878	42,816,501	426,171	106,637,550	
Long-term financial assets	GBP	9,475,279	5,530,664	-	15,005,943	
Short-term financial liabilities	GBP	-	-	(610,767)	(610,767)	
Long-term financial liabilities	GBP	-	-	=	-	
Total	GBP	72,870,157	48,347,165	(184,596)	121,032,726	6,404
Global High Yield Corporate Bond	Multi-Factor UCITS ETF					
Short-term financial assets	USD	3,020,694	2,316,220	20,064,847	25,401,761	
Long-term financial assets	USD	833,942	210,008,531	-	210,842,473	
Short-term financial liabilities	USD	-	(1,585,532)	(17,822,585)	(19,408,117)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	3,854,636	210,739,219	2,242,262	216,836,117	435,287
RMB Ultra-Short Income UCITS ETF	=2					
Short-term financial assets	USD	2,803,777	40,953,809	607,159	44,364,745	
Long-term financial assets	USD	-	5,192,973	-	5,192,973	
Short-term financial liabilities	USD	-	-	(46,015)	(46,015)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	2,803,777	46,146,782	561,144	49,511,703	10,383
USD Corporate Bond Research Enh	nanced Index (ESG) UCITS ET	F				
Short-term financial assets	USD	342,066	-	4,000,811	4,342,877	
Long-term financial assets	USD	14,155,675	75,222,927	-	89,378,602	
Short-term financial liabilities	USD	(1,390,961)	-	(2,746,233)	(4,137,194)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	13,106,780	75,222,927	1,254,578	89,584,285	316,595
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<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 1 March 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

#### (a) Market risk (continued)

(iii) Interest rate risk (continued)

As at 31 December 2022 (continued)

	Currency	Floating interest rate	Fixed interest rate	Non-interest bearing*	Total	Sensitivity analysis of 5%
USD Emerging Markets Sovereign B	ond UCITS ETF					
Short-term financial assets	USD	877,048	988,044	21,952,566	23,817,658	
Long-term financial assets	USD	575,279	373,818,456	-	374,393,735	
Short-term financial liabilities	USD	-	(726,650)	(15,431,836)	(16,158,486)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	1,452,327	374,079,850	6,520,730	382,052,907	1,299,808
USD Ultra-Short Income UCITS ETF						
Short-term financial assets	USD	47,701,657	120,787,765	1,325,806	169,815,228	
Long-term financial assets	USD	35,381,836	20,409,300	-	55,791,136	
Short-term financial liabilities	USD	(60,477)	-	(335,793)	(396,270)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	83,023,016	141,197,065	990,013	225,210,094	27,609

<sup>\*</sup>The non-interest bearing category includes equities, payables, receivables and financial derivative instruments.

Interest rate risk as at 31 December 2021:

	Currency	Floating interest rate	Fixed interest rate	Non-interest bearing*	Total	Sensitivity analysis of 5%
BetaBuilders EUR Govt Bond 1-3 yr	· UCITS ETF					
Short-term financial assets	EUR	21,706	2,418,931	909,516	3,350,153	
Long-term financial assets	EUR	-	137,812,617	-	137,812,617	
Short-term financial liabilities	EUR	-	-	(15,625)	(15,625)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	21,706	140,231,548	893,891	141,147,145	137,350
BetaBuilders EUR Govt Bond UCITS	S ETF					
Short-term financial assets	EUR	324,721	654,914	291,819	1,271,454	
Long-term financial assets	EUR	-	43,868,912	-	43,868,912	
Short-term financial liabilities	EUR	-	-	(322,523)	(322,523)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	324,721	44,523,826	(30,704)	44,817,843	194,575
BetaBuilders UK Gilt 1-5 yr UCITS E	ETF					
Short-term financial assets	GBP	26,082	-	150,388	176,470	
Long-term financial assets	GBP	-	28,179,717	-	28,179,717	
Short-term financial liabilities	GBP	-	-	(39,304)	(39,304)	
Long-term financial liabilities	GBP	-	-	-	-	
Total	GBP	26,082	28,179,717	111,084	28,316,883	42,540

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

#### (a) Market risk (continued)

(iii) Interest rate risk (continued)

	Currency	Floating interest rate	Fixed interest rate	Non-interest bearing*	Total	Sensitivity analysis of 5%
BetaBuilders US Treasury Bond 0-1	1 yr UCITS ETF					
Short-term financial assets	USD	103,892,673	2,074,068,451	212,895,805	2,390,856,929	
Long-term financial assets	USD	-	-	-	-	
Short-term financial liabilities	USD	-	-	(175,144,636)	(175,144,636)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	103,892,673	2,074,068,451	37,751,169	2,215,712,293	313,274
BetaBuilders US Treasury Bond 0-3	3 Months UCITS ETF1					
Short-term financial assets	USD	1,714,296	28,747,060	8,958,193	39,419,549	
Long-term financial assets	USD	-	-	-	-	
Short-term financial liabilities	USD	-	-	(9,035,559)	(9,035,559)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	1,714,296	28,747,060	(77,366)	30,383,990	1,916
BetaBuilders US Treasury Bond 1-3	B yr UCITS ETF					
Short-term financial assets	USD	44,029	842,440	9,079,918	9,966,387	
Long-term financial assets	USD	-	141,685,291	-	141,685,291	
Short-term financial liabilities	USD	-	-	(8,753,389)	(8,753,389)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	44,029	142,527,731	326,529	142,898,289	140,452
BetaBuilders US Treasury Bond UC	ITS ETF					
Short-term financial assets	USD	202,278	1,738,241	4,282,973	6,223,492	
Long-term financial assets	USD	-	101,279,667	-	101,279,667	
Short-term financial liabilities	USD	-	-	(3,045,912)	(3,045,912)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	202,278	103,017,908	1,237,061	104,457,247	386,892
EUR Corporate Bond 1-5 yr Researd	ch Enhanced Index (ESG) U	CITS ETF				
Short-term financial assets	EUR	39,185	-	1,047,758	1,086,943	
Long-term financial assets	EUR	8,068,981	30,538,919	-	38,607,900	
Short-term financial liabilities	EUR	-	-	(806,492)	(806,492)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	8,108,166	30,538,919	241,266	38,888,351	54,828
EUR Corporate Bond Research Enh	nanced Index (ESG) UCITS E	TF				
Short-term financial assets	EUR	299,082	_	3,645,319	3,944,401	
Long-term financial assets	EUR	40,626,048	148,777,127	· · · · -	189,403,175	
Short-term financial liabilities	EUR	-	- -	(2,167,431)	(2,167,431)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	40,925,130	148,777,127	1,477,888	191,180,145	487,917
- Otal	- * *	, - 20,200	,,	_,,000	-,,	,,,,,,

 $<sup>^{1}\</sup>mathrm{Sub}\text{-Fund}$  launched on 17 February 2021.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

#### (a) Market risk (continued)

(iii) Interest rate risk (continued)

	Currency	Floating interest rate	Fixed interest rate	Non-interest bearing*	Total	Sensitivity analysis of 5%
EUR Ultra-Short Income UCITS ETF						
Short-term financial assets	EUR	108,647,679	494,255,865	4,408,444	607,311,988	
Long-term financial assets	EUR	218,388,228	298,785,588	-	517,173,816	
Short-term financial liabilities	EUR	-	-	(7,337,972)	(7,337,972)	
Long-term financial liabilities	EUR	-	-	-	-	
Total	EUR	327,035,907	793,041,453	(2,929,528)	1,117,147,832	341,380
GBP Ultra-Short Income UCITS ETF						
Short-term financial assets	GBP	30,577,754	35,389,486	791,387	66,758,627	
Long-term financial assets	GBP	16,259,431	28,062,306	-	44,321,737	
Short-term financial liabilities	GBP	-	-	(102,857)	(102,857)	
Long-term financial liabilities	GBP	-	-	-	-	
Total	GBP	46,837,185	63,451,792	688,530	110,977,507	24,486
Global High Yield Corporate Bond Mu	llti-Factor UCITS ETF					
Short-term financial assets	USD	1,635,030	635,750	6,104,680	8,375,460	
Long-term financial assets	USD	_	235,115,503	-	235,115,503	
Short-term financial liabilities	USD	-	-	(1,140,052)	(1,140,052)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	1,635,030	235,751,253	4,964,628	242,350,911	425,487
USD Corporate Bond Research Enhan	iced Index (ESG) UCITS ETF					
Short-term financial assets	USD	284,556	1,377,637	1,819,953	3,482,146	
Long-term financial assets	USD	11,084,117	68,745,379	_	79,829,496	
Short-term financial liabilities	USD	_	-	(1,057,923)	(1,057,923)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	11,368,673	70,123,016	762,030	82,253,719	351,362
USD Emerging Markets Sovereign Bo	nd LICITS FTF					
Short-term financial assets	USD	1,885,869	-	11,875,269	13,761,138	
Long-term financial assets	USD	623,146	500,066,742	-	500,689,888	
Short-term financial liabilities	USD	=	-	(2,785,234)	(2,785,234)	
Long-term financial liabilities	USD	-	-	-	-	
Total	USD	2,509,015	500,066,742	9,090,035	511,665,792	2,010,428
USD Ultra-Short Income UCITS ETF						
Short-term financial assets	USD	26,926,864	87,849,012	3,282,524	118,058,400	
•	USD	83,118,674	70,441,613	-	153,560,287	
Long-term financial assets		, -,-	, ,			
		-	_	(7,517,699)	(7,517,699)	
Long-term financial assets Short-term financial liabilities Long-term financial liabilities	USD USD	-	-	(7,517,699) -	(7,517,699) -	

 $<sup>{}^{\</sup>star} \text{The non-interest bearing category includes equities, payables, receivables and financial derivative instruments.}$ 

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

#### 10. Financial risk management (continued)

#### 10.1 Financial risk factors (continued)

#### (a) Market risk (continued)

(iii) Interest rate risk (continued)

LIBOR Replacement Risk

Many financial instruments use or may use a floating rate based on LIBOR, the offered rate at which major international banks can obtain wholesale, unsecured funding. LIBOR may be a significant factor in determining the Fund's payment obligations under a derivative investment, the cost of financing to the Fund or an investment's value or return to the Fund, and may be used in other ways that affect the Fund's investment performance. The United Kingdom's Financial Conduct Authority announced a phase out of the LIBOR. Although many LIBOR rates were phased out by the end of 2021, a selection of widely used USD LIBOR rates will continue to be published through June 2023 in order to assist with the transition. The Fund may be exposed to financial instruments tied to LIBOR to determine payment obligations, financing terms, hedging strategies or investment value. The transition process away from LIBOR might lead to increased volatility and illiquidity in markets for, and reduce the effectiveness of new hedges placed against, instruments whose terms currently include LIBOR. The ultimate effect of the LIBOR transition process on the Fund is uncertain. As at 31 December 2022 and 31 December 2021, the EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF, the EUR Ultra-Short Income UCITS ETF, the GBP Ultra-Short Income UCITS ETF, the USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF and the USD Ultra-Short Income UCITS ETF held securities that use a floating rate based on LIBOR.

#### (b) Credit, counterparty and global exposure risk

The Sub-Funds are exposed to credit risk, which is the risk that one party to a financial instrument will cause a financial loss for the other party by failing to discharge an obligation.

Adherence to investment guidelines and to investment and borrowing powers set out in the Memorandum and Articles of Association and the Prospectus mitigate the risk of excessive exposure to any particular type of issuer.

Securities and investments in cash equivalents are maintained by the Depositary in segregated accounts. In the event of the insolvency or bankruptcy of the Depositary, the Sub-Funds will be treated as a general creditor of its Depositary, on deposits held at call in relation to cash holdings of the Sub-Funds. The Sub-Funds are exposed to credit risk of the Depositary. As at 31 December 2022 and 31 December 2021, cash is held by the Depositary or on overnight deposits with third party institutions that have a long term credit rating which is above investment grade. The Depositary has a long-term credit rating as per Fitch of A+ as at 31 December 2022 (31 December 2021: A+).

As the Sub-Funds may reinvest cash collateral received under securities lending agreements, there is a risk that the value on return of the reinvested cash collateral may not be sufficient to cover the amount required to be repaid to the counterparty. As at 31 December 2022, all of the cash collateral received in respect of securities lending transactions was reinvested into Reverse Repurchase Transactions with Societe Generale and Natixis acting as counterparties. The counterparties have a long-term credit rating as per Fitch of A- and A+, respectively. There was no cash collateral received as at 31 December 2021. The further information on cash collateral received with relation to securities lending transactions is detailed in Note 18 and the Securities Financing Transactions appendix.

The ICAV's policy allows the Sub-Funds to use derivative financial instruments to both moderate and create certain risk exposures. All securities investments present a risk of loss of capital. The maximum loss of capital on financial derivative instruments is limited to the notional contract values of those positions. As at 31 December 2022 and 31 December 2021, the Sub-Funds held forward currency contracts and financial futures contracts.

As at 31 December 2022, the Sub-Funds' financial assets exposed to counterparty credit risk amounted to the following:

Currency	Exposure excluding cash collateral	Cash collateral pledged	Cash collateral received	Credit rating
UCITS ETF <sup>1</sup>				
USD	(456)	118,000	-	Д+
USD	62,968,298	-	-	Α+
USD	432,444	-	-	А
USD	612,504	-	-	Α+
USD	238,821	-	-	Α+
USD	42,436,574	-	-	Α+
USD	130,409	-	-	Α+
USD	116,166	-	-	AA-
USD	(165)	12,000	-	Α+
USD	67	-	-	Α+
	USD  USD  USD  USD  USD  USD  USD  USD	USD (456)  USD (456)  USD (456)  USD 62,968,298  USD 432,444  USD 612,504  USD 238,821  USD 42,436,574  USD 130,409  USD 116,166	Currency         cash collateral         pledged           UCITS ETF <sup>1</sup> USD         (456)         118,000           USD         62,968,298         -         -           USD         432,444         -         -           USD         238,821         -         -           USD         42,436,574         -         -           USD         130,409         -         -           USD         116,166         -         -           USD         (165)         12,000	Currency         cash collateral         pledged         received           UCITS ETF <sup>1</sup> USD         (456)         118,000         -           USD         62,968,298         -         -           USD         432,444         -         -           USD         612,504         -         -           USD         238,821         -         -           USD         42,436,574         -         -           USD         130,409         -         -           USD         116,166         -         -           USD         (165)         12,000         -

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022.

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 9 August 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

# 10.1 Financial risk factors (continued)

## (b) Credit, counterparty and global exposure risk (continued)

	Currency	Exposure excluding cash collateral	Cash collateral pledged	Cash collateral received	Credit rating
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF					
Counterparty					
Bank of America Merrill Lynch	USD	1,700	-	-	A+
BNP Paribas	USD	27,722,676	-	-	A+
Citibank NA	USD	15,183	-	-	Α+
Goldman Sachs	USD	3,340,291,966	-	-	Α+
Morgan Stanley	USD	11,126,056	-	-	Α+
RBC	USD	8,970,683	-	-	AA-
Standard Chartered	USD	1,668,658,742	-	-	Α+
State Street	USD	5,861,927	-	-	AA-
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF Counterparty					
BNP Paribas	USD	41,734,312	_	_	Α+
Goldman Sachs	USD	137,211,605	_	_	A+
HSBC	USD	15,495	_	_	A+
Morgan Stanley	USD	752,602	_	_	A+
RBC	USD	367,976			AA-
Standard Chartered	USD	110,025,999	_	_	
State Street	USD	120,758	-	-	A+ AA-
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF					
Counterparty					
Barclays	USD	4,566	-	-	Δ
BNP Paribas	USD	378,131	-	-	A+
Goldman Sachs	USD	2,305,570	-	-	Α+
HSBC	USD	284	-	-	Α+
Morgan Stanley	USD	14,864	-	-	Α+
RBC	USD	6,210	-	-	AA-
Standard Chartered	USD	1,508,417	-	-	A+
State Street	USD	6,183	-	-	AA-
BetaBuilders US Treasury Bond UCITS ETF Counterparty					
Barclays	USD	4,812,955	_	_	Δ
BNP Paribas	USD	5,001,011	_	_	Α+
HSBC	USD	150,145,451	_	_	Α+
Morgan Stanley	USD	2,912,932	_	_	Α+
RBC	USD	13,529			AA-
State Street	USD	308,744,935	-	-	AA-
Carbon Transition Global Equity (CTB) UCITS ETF					
Counterparty					
Bank of America Merrill Lynch	USD	83,713	-	-	Α+
Barclays	USD	3,464,064	-	-	Δ
BNP Paribas	USD	20,067	-	-	Α+
Citibank NA	USD	12,570	-	-	A+
Goldman Sachs	USD	102,664	-	-	Α+
HSBC	USD	604,562	-	-	Α+
Morgan Stanley	USD	239,823	-	-	Α+
RBC	USD	121,615	-	-	AA-
Standard Chartered	USD	1,675,816	-	-	A+
State Street	USD	374,886	_	-	AA-

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (b) Credit, counterparty and global exposure risk (continued)

	Currency	Exposure excluding cash collateral	Cash collateral pledged	Cash collateral received	Credit rating
EUR Corporate Bond Research Enhanced Index (ESG) L	ICITS ETF				
Counterparty					
Bank of America Merrill Lynch	EUR	120,057	-	-	A+
BNP Paribas	EUR	646,759	-	-	Α+
HSBC	EUR	16,269,072	-	-	Α+
Morgan Stanley	EUR	441,776	-	-	Α+
RBC	EUR	194,159	-	-	AA-
Standard Chartered	EUR	33,447,381	-	-	A+
State Street	EUR	96,318	-	-	AA-
EUR Ultra-Short Income UCITS ETF					
Counterparty					
Bank of America Merrill Lynch	EUR	133,830,044	-	-	A+
BNP Paribas	EUR	49,330,803	-	-	Α+
Citibank NA	EUR	28,137,420	-	-	Α+
Goldman Sachs	EUR	49,808,638	-	-	Α+
HSBC	EUR	14,613,049	-	-	Α+
Morgan Stanley	EUR	15,621,466	-	-	A+
RBC	EUR	4,208,480	-	-	AA-
State Street	EUR	6,025,793	-	-	AA-
Toronto-Dominion Bank	EUR	80,991,569	-	-	AA-
GBP Ultra-Short Income UCITS ETF					
Counterparty					
Bank of America Merrill Lynch	GBP	3,652,779	-	-	Α+
Barclays	GBP	5,770,856	_	-	Д
BNP Paribas	GBP	5,783,938	-	-	Д+
Goldman Sachs	GBP	1,797,792	-	-	Д+
HSBC	GBP	10,902,563	_	_	Α+
Morgan Stanley	GBP	4,015,951	_	_	Α+
RBC	GBP	1,179,824	_	_	AA-
Standard Chartered	GBP	826,828	-	-	Α+
Global Equity Multi-Factor UCITS ETF					
Counterparty Citibank NA	USD	18,355	-	-	Α+
Clabel High Viold Corporate Dond Multi-Factor UCITS 5	TF				
Global High Yield Corporate Bond Multi-Factor UCITS E Counterparty	ır				
Bank of America Merrill Lynch	USD	200 E41			Α.
	USD	299,561 56,732,800	-	-	Α+
Barclays BNP Paribas	USD	56,732,809	-	-	Δ
		810,875	-	-	Α+
Citibank NA	USD	483,378	-	-	A+
Goldman Sachs	USD	4,176,256	-	-	A+
HSBC	USD	135,373,171	-	-	Α+
Morgan Stanley	USD	3,543,466	-	-	A+
RBC	USD	361,761	-	-	AA-
Standard Chartered	USD	26,272,916	-	-	A+
State Street	USD	276,586,547	_	_	AA-

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (b) Credit, counterparty and global exposure risk (continued)

	Currency	Exposure excluding cash collateral	Cash collateral pledged	Cash collateral received	Credit rating
Global Research Enhanced Index Equity (ESG) UCITS	ETF				
Counterparty					
Bank of America Merrill Lynch	USD	2,873,766	-	-	A+
Barclays	USD	95,533,023	-	-	Д
BNP Paribas	USD	4,161,579	-	-	Α+
Citibank NA	USD	2,383,043	-	-	Α+
Goldman Sachs	USD	17,279,499	-	-	Α+
HSBC	USD	173,971,944	-	-	Α+
Morgan Stanley	USD	23,509,155	-	-	Α+
RBC	USD	9,630,437	-	-	AA-
Standard Chartered	USD	42,818,756	-	-	Α+
State Street	USD	311,174,487	-	-	AA-
Japan Research Enhanced Index Equity (ESG) UCITS  Counterparty	ETF <sup>4</sup>				
Bank of America Merrill Lynch	USD	57,645	_	_	Α+
Barclays	USD	12,549	=	- -	Ат
Citibank NA	USD	5,398	_	_	A+
Goldman Sachs	USD	155,409	_	_	Α+
Morgan Stanley	USD	1,102,226	_	_	Α+
RBC	USD	916,093	_	_	AA-
Standard Chartered	USD	6,640			A+
State Street	USD	1,038,906	-	-	AA-
UK Equity Core UCITS ETF <sup>5</sup>					
Counterparty					
Citibank NA	GBP	(737)	-	-	A+
US Research Enhanced Index Equity (ESG) UCITS ETF	=				
Counterparty					
Bank of America Merrill Lynch	USD	216,221	-	-	Α+
Barclays	USD	30,083,791	-	-	А
BNP Paribas	USD	6,048,556	-	-	Α+
Goldman Sachs	USD	2,404	-	-	A+
HSBC	USD	601,010	-	-	A+
Morgan Stanley	USD	2,668,155	-	-	A+
RBC	USD	230,438	-	-	AA-
Standard Chartered	USD	13,058,381	-	-	Α+
State Street	USD	508,982	-	-	AA-
USD Corporate Bond Research Enhanced Index (ESG	) UCITS ETF				
Counterparty		447.000			
Bank of America Merrill Lynch	USD	117,292	=	-	Α+
Barclays	USD	42,153,017	-	-	A
BNP Paribas	USD	813,820	104.000	-	Α+
Goldman Sachs	USD	271,569	134,000	-	A+
HSBC	USD	18,021,702	-	-	A+
Morgan Stanley	USD	8,977,295	-	-	Α+
RBC	USD	56,589	-	-	AA-
Standard Chartered	USD	14,325,896	-	-	A+
State Street	USD	36,125,179	_	_	AA-

<sup>&</sup>lt;sup>4</sup>Sub-Fund launched on 29 March 2022. <sup>5</sup>Sub-Fund launched on 14 June 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (b) Credit, counterparty and global exposure risk (continued)

As at 31 December 2022 (continued)

	Currency	Exposure excluding cash collateral	Cash collateral pledged	Cash collateral received	Credit rating
USD Emerging Markets Sovereign Bond UCITS ETF					
Counterparty					
Bank of America Merrill Lynch	USD	1,650	-	-	Α+
Barclays	USD	532,361,315	-	-	А
BNP Paribas	USD	12,465,312	-	-	A+
Goldman Sachs	USD	5,210,675	-	-	A+
HSBC	USD	6,150,923	-	-	Α+
Morgan Stanley	USD	28,317,354	-	-	Α+
RBC	USD	9,301	-	-	AA-
Standard Chartered	USD	263,960,570	-	-	Α+
State Street	USD	22,807,256	-	-	AA-
USD Ultra-Short Income UCITS ETF  Counterparty  Citibank NA	USD	16,657	_	_	Α+
CILIDATIK NA	นรม	10,057	-	-	A+

As at 31 December 2021, the Sub-Funds' financial assets exposed to counterparty credit risk amounted to the following:

	Currency	Exposure excluding cash collateral	Cash collateral pledged	Cash collateral received	Credit rating
BetaBuilders US Equity UCITS ETF					
Counterparty					
Citibank NA	USD	(206)	12,000	-	A+
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF Counterparty					
Bank of America Merrill Lynch	USD	8,844,067	-	-	A+
Barclays	USD	12,789,122	-	-	А
BNP Paribas	USD	16,687	-	-	Α+
Goldman Sachs	USD	2,133,970,356	-	-	A+
RBC	USD	3,173	-	-	AA-
Standard Chartered	USD	4,013,011,880	-	-	А
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>1</sup>					
Counterparty					
Bank of America Merrill Lynch	USD	109,722	-	-	Α+
Barclays	USD	150,491	-	-	А
Goldman Sachs	USD	23,606,212	-	-	Α+
Standard Chartered	USD	47,422,063	-	-	А
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF Counterparty					
Bank of America Merrill Lynch	USD	1,061	-	-	Α+
Barclays	USD	2,572	-	-	А
Citibank NA	USD	507	-	-	Α+
Goldman Sachs	USD	287,548	-	-	Α+
Standard Chartered	USD	575,969	-	-	А

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 17 February 2021.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

# 10.1 Financial risk factors (continued)

## (b) Credit, counterparty and global exposure risk (continued)

	Currency	Exposure excluding cash collateral	Cash collateral pledged	Cash collateral received	Credit rating
BetaBuilders US Treasury Bond UCITS ETF					
Counterparty					
Bank of America Merrill Lynch	USD	1,982,459	-	-	Α+
Barclays	USD	273,113	-	-	Д
BNP Paribas	USD	129,443,541	-	-	Α+
Goldman Sachs	USD	67,321,711	-	-	Α+
HSBC	USD	319,585	-	-	Α+
RBC	USD	218,157	-	-	AA-
State Street	USD	967,795	-	-	AA-
Carbon Transition Global Equity (CTB) UCITS ETF					
Counterparty Citibank NA	USD	6,243	-	-	A+
EUR Corporate Bond 1-5 yr Research Enhanced Index (	ESG) UCITS ETF				
Counterparty	-,				
Goldman Sachs	EUR	(550)	22,000	-	A+
EUR Corporate Bond Research Enhanced Index (ESG) L Counterparty	ICITS ETF				
Bank of America Merrill Lynch	EUR	755	_	_	Α+
Goldman Sachs	EUR	(2,155)	195,000	_	A+
HSBC	EUR	608,895	175,000	_	A+
Standard Chartered	EUR	944	-	-	Α.
EUR Ultra-Short Income UCITS ETF					
Counterparty					
Bank of America Merrill Lynch	EUR	42,360,975	-	-	Α+
BNP Paribas	EUR	70,154,121	-	-	Α+
Citibank NA	EUR	306,278,177	-	-	Α+
Goldman Sachs	EUR	164,331,191	-	-	Α+
HSBC	EUR	30,906,268	-	-	Α+
RBC	EUR	5,388,481	-	-	AA-
Standard Chartered	EUR	51,965,807	-	-	А
State Street	EUR	10,383,605	-	-	AA-
GBP Ultra-Short Income UCITS ETF					
Counterparty					
Bank of America Merrill Lynch	GBP	14,770,844	-	-	Α+
BNP Paribas	GBP	20,859,355	-	-	Α+
Standard Chartered	GBP	12,586,684	-	-	Д
State Street	GBP	839,860	-	-	AA-
Global Emerging Markets Research Enhanced Index Eq Counterparty	uity (ESG) UCITS ETF				
Goldman Sachs	USD	(6,300)	73,000	-	A+
Global Equity Multi-Factor UCITS ETF					
Counterparty					
Citibank NA	USD	14,996	-	-	Α+
Goldman Sachs	USD	251,441	-	-	Α+

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

# 10.1 Financial risk factors (continued)

## (b) Credit, counterparty and global exposure risk (continued)

	Currency	Exposure excluding cash collateral	Cash collateral pledged	Cash collateral received	Credit rating
Global High Yield Corporate Bond Multi-Factor UCITS	ETF				
Counterparty					
Bank of America Merrill Lynch	USD	328,004	_	-	Α+
Barclays	USD	9,978,491	_	-	А
BNP Paribas	USD	197,794,089	_	-	Α+
Citibank NA	USD	2,236,155	_	-	Α+
Goldman Sachs	USD	150,467,313	_	-	Α+
HSBC	USD	518,249	_	-	Α+
RBC	USD	935,753	_	-	AA-
Standard Chartered	USD	5,225,870	-	-	А
Toronto-Dominion Bank	USD	20,313,409	-	-	AA-
Global Research Enhanced Index Equity (ESG) UCITS E	ETF				
Bank of America Merrill Lynch	USD	35,753	_	_	Α+
Barclays	USD	13,571	-	-	Α.
BNP Paribas	USD	991,169	_	_	Α+
Goldman Sachs	USD	1,887,771	49,000	_	Α+
HSBC	USD	94,031	-	_	A+
Standard Chartered	USD	79,121	_	_	A
State Street	USD	119,888	-	-	AA-
US Equity Multi-Factor UCITS ETF					
Counterparty					
Citibank NA	USD	6,863	-	-	Α+
USD Corporate Bond Research Enhanced Index (ESG)	UCITS ETF				
Counterparty					
Bank of America Merrill Lynch	USD	55,008	-	-	Α+
Barclays	USD	50,669	-	-	А
BNP Paribas	USD	21,199,968	-	-	Α+
Citibank NA	USD	418	-	-	Α+
Goldman Sachs	USD	42,849,492	134,000	-	Α+
HSBC	USD	85,369	-	-	A+
Standard Chartered	USD	223,548	-	-	А
State Street	USD	38,507	-	-	AA-
USD Emerging Markets Sovereign Bond UCITS ETF Counterparty					
Bank of America Merrill Lynch	USD	177,540	-	-	Α+
Barclays	USD	150,700	-	-	А
BNP Paribas	USD	13,403,892	-	-	Α+
Goldman Sachs	USD	900,604,851	-	-	Α+
HSBC	USD	27,873,610	_	-	Α+
RBC	USD	12,733	-	-	AA-
Standard Chartered	USD	14,768,380	-	-	А
State Street	USD	176,356	-	-	AA-
USD Ultra-Short Income UCITS ETF					
Counterparty					
Citibank NA	USD	(4,125)			Α+

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (b) Credit, counterparty and global exposure risk (continued)

All of the Sub-Fund's bond and equity positions are held with the Depositary. The table below details the credit rating profile of the bonds held by the Sub-Funds as at 31 December 2022:

Bond securities rating	BetaBuilders China Aggregate Bond UCITS ETF <sup>1</sup>	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	BetaBuilders EUR Govt Bond UCITS ETF	BetaBuilders UK Gilt 1-5 yr UCITS ETF	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF
AAA	_	22.96%	22.66%	<u>-</u>	_
AA+	_	4.93%	5.11%	_	100.00%
AA	_	26.14%	25.79%	_	-
AA-	-	5.48%	7.55%	100.00%	-
Α+	94.82%	-	-	-	-
A	-	-	-	-	-
A-	-	15.01%	14.94%	-	-
BBB+	1.71%	1.79%	2.22%	-	-
BBB	1.73%	23.69%	21.73%	-	-
BBB-	-	-	-	-	-
BB+	1.74%	-	-	-	-
BB	-	-	-	-	-
BB-	-	-	-	-	-
B+	-	-	-	-	-
В	-	-	-	-	-
B-	-	-	-	-	-
CCC+	-	-	-	-	-
CCC	-	-	-	-	-
CCC-	-	-	-	-	-
C	-	-	-	-	-

Bond securities rating	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF		EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF	
AAA	-	-	-	-	-
AA+	100.00%	100.00%	100.00%	0.81%	-
AA	<del>-</del>	=	-	=	0.07%
AA-	-	-	-	3.35%	3.22%
Α+	-	-	-	6.84%	7.85%
A	-	-	-	4.84%	7.88%
A-	-	-	-	18.18%	22.04%
BBB+	-	-	-	29.99%	29.82%
BBB	-	-	-	21.78%	21.94%
BBB-	-	-	-	14.21%	7.18%
BB+	-	-	-	-	-
BB	-	-	-	-	-
BB-	-	-	-	-	-
B+	-	-	-	-	-
В	-	-	-	-	-
B-	-	-	-	-	-
CCC+	-	-	-	-	-
CCC	-	-	-	-	-
CCC-	-	-	-	-	-
С	-	-	-	-	-

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 17 March 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (b) Credit, counterparty and global exposure risk (continued)

Bond securities rating	EUR Ultra-Short Income UCITS ETF	GBP Ultra-Short Income UCITS ETF	Global High Yield Corporate Bond Multi-Factor UCITS ETF	RMB Ultra-Short Income UCITS ETF <sup>2</sup>	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF
AAA	11.78%	16.28%	-	9.94%	0.09%
AA+	-	0.49%	-	2.18%	2.15%
AA	7.27%	0.28%	-	6.88%	2.55%
AA-	6.12%	7.75%	-	6.56%	1.74%
Α+	9.10%	18.01%	-	53.95%	4.45%
A	32.23%	24.04%	-	7.12%	7.93%
A-	13.24%	14.85%	-	7.15%	21.71%
BBB+	4.40%	13.08%	-	3.12%	25.31%
BBB	10.81%	3.97%	-	-	17.48%
BBB-	5.05%	1.25%	1.07%	3.10%	16.05%
BB+	-	-	21.31%	-	0.54%
BB	-	-	24.77%	-	-
BB-	-	-	21.13%	-	-
B+	-	-	12.10%	-	-
В	-	-	11.67%	-	-
B-	-	-	2.62%	-	-
CCC+	-	-	4.02%	-	-
CCC	-	-	0.68%	-	-
CCC-	-	-	0.57%	-	-
С	-	-	0.06%	-	-

Bond securities rating	USD Emerging Markets Sovereign Bond UCITS ETF	USD Ultra-Short Income UCITS ETF
AAA	_	8.97%
AA+	_	1.67%
AA	5.15%	-
AA-	0.43%	16.51%
Д+	2.60%	13.44%
А	5.42%	14.73%
Α-	2.31%	20.27%
BBB+	2.48%	11.04%
BBB	13.62%	11.65%
BBB-	2.89%	1.72%
BB+	9.44%	-
BB	15.13%	-
BB-	14.11%	-
B+	10.40%	-
В	14.47%	-
B-	0.91%	-
CCC+	0.40%	-
CCC	0.24%	-
CCC-	-	-
C	-	-

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 1 March 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.1 Financial risk factors (continued)

## (b) Credit, counterparty and global exposure risk (continued)

Bond securities rating	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	BetaBuilders EUR Govt Bond UCITS ETF	BetaBuilders UK Gilt 1-5 yr UCITS ETF	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF
AAA	23.98%	21.72%	-	-	-
ΔΔ+	5.51%	5.19%	-	100.00%	100.00%
AA	24.83%	25.84%	-	-	-
AA-	5.34%	7.86%	100.00%	-	-
Α+	-	-	-	-	
A	-	-	-	-	-
A-	13.38%	14.74%	-	-	-
BBB+	-	-	-	-	-
BBB	26.96%	24.65%	-	-	-
BBB-	-	-	-	-	-
BB+	-	-	-	-	-
BB	_	-	-	-	-
BB-	-	-	_	-	-
B+	_	-	-	-	-
В	_	-	-	-	-
B-	_	-	-	-	-
CCC+	=	-	_	_	-
CCC	_	-	-	-	-
CCC-	-	-	_	-	-
C	-	-	-	-	-
Bond securities rating	BetaBuilders US Treasury Bond 1-3 yr UCITS ETF	BetaBuilders US Treasury Bond UCITS ETF	EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF	EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF	EUR Ultra-Shori Income UCITS ETF
AAA	-	-	-	0.10%	16.37%
AA+	100.00%	100.00%	0.80%	0.80%	-
AA	=	-	0.27%	0.16%	2.10%
AA-	_	-	2.65%	2.25%	6.14%
Д+	-	-	4.81%	8.01%	13.05%
A	-	-	5.28%	6.50%	15.99%
Α-	_	-	18.31%	18.61%	12.90%
BBB+	_	-	33.89%	31.32%	17.06%
BBB	<del>-</del>	_	22.17%	21.07%	13.85%
BBB-	<del>-</del>	_	11.82%	11.18%	2.54%
BB+	=	_	-		
BB	_	_	_	_	_
BB-	=	_	_	_	_
B+	_	_	_	_	_
В	_	_	_	_	
В-		_		_	_
K-					

CCC-C

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 17 February 2021.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

#### 10. Financial risk management (continued)

#### 10.1 Financial risk factors (continued)

#### (b) Credit, counterparty and global exposure risk (continued)

As at 31 December 2021 (continued)

Bond securities rating	GBP Ultra-Short Income UCITS ETF	Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD Emerging Markets Sovereign Bond UCITS ETF	USD Ultra-Short Income UCITS ETF
AAA	15.49%	-	0.26%	-	6.39%
AA+	1.02%	_	1.73%	-	1.18%
AA	4.79%	-	1.72%	2.12%	1.04%
AA-	6.62%	-	1.96%	3.02%	5.88%
Д+	21.15%	-	3.67%	2.57%	12.05%
А	17.65%	-	5.14%	5.10%	9.74%
A-	10.11%	-	17.00%	2.47%	19.69%
BBB+	17.01%	-	31.96%	4.16%	26.27%
BBB	4.17%	0.36%	17.71%	11.24%	14.34%
BBB-	1.99%	2.24%	16.32%	5.98%	3.42%
BB+	-	14.93%	2.53%	8.53%	-
BB	-	20.33%	-	1.89%	-
BB-	-	20.57%	-	24.99%	-
B+	-	16.26%	-	13.66%	-
В	-	9.83%	-	8.16%	-
B-	-	7.10%	-	5.49%	-
CCC+	-	5.35%	-	0.46%	-
CCC	-	1.95%	-	0.16%	-
CCC-	-	0.94%	-	-	-
С	-	0.14%	-	-	-

Certain Sub-Funds apply a VaR ("Value-at-Risk") approach to calculate their global exposure, and this will be specified for each applicable Sub-Fund in the Relevant Supplement. A global exposure calculation using the VaR approach should consider all the positions of the relevant Sub-Fund.

VaR is a means of measuring the potential loss to a Sub-Fund due to market risk and is expressed as the maximum potential loss measured at a 99% one-tailed confidence level over a one month time horizon. The holding period for the purpose of calculating global exposure, is 20 days.

Sub-Funds using the VaR approach are required to disclose their expected level of leverage which is stated in the Relevant Supplement. The expected level of leverage disclosed for each Sub-Fund is an indicative level and is not a regulatory limit. The Sub-Fund's actual level of leverage might significantly exceed the expected level from time to time however the use of Financial Derivative Instruments ("FDI") will remain consistent with the Sub-Fund's investment objective and risk profile and comply with its VaR limit. In this context leverage is a measure of the aggregate derivative usage and is calculated as the sum of the notional exposure of the FDI used, without the use of netting arrangements As the calculation neither takes into account whether a particular FDI increases or decreases investment risk, nor takes into account the varying sensitivities of the notional exposure of the FDI to market movements, this may not be representative of the level of investment risk within a Sub-Fund.

During the year ended 31 December 2022 and 31 December 2021 none of the Sub-Funds applied a VaR approach to calculate their global exposure.

All Sub-Fund's global exposure and leverage are calculated using the commitment approach and the Sub-Funds' global exposure does not exceed 100% of Net Asset Value. The commitment approach converts each Sub-Fund's FDI positions into the equivalent positions in the underlying assets and seeks to ensure that the FDI risk is monitored in terms of any future "commitments" to which it is (or may be) obligated.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 10. Financial risk management (continued)

#### 10.1 Financial risk factors (continued)

#### (b) Credit, counterparty and global exposure risk (continued)

The table below details global exposure and the leverage employed as at 31 December 2022 for the Sub-Funds that use commitment approach and held FDI positions during the year ended 31 December 2022.

Sub-Fund Name	Currency	Global Exposure	Leverage
JPMorgan ETFs (Ireland) ICAV - AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD	145,784	0.72
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF	USD	57,915	0.31
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Small Cap Equity UCITS ETF <sup>2</sup>	USD	79,691	0.41
JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF	USD	154,440	0.08
JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF	EUR	283,116,039	24.01
JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF	GBP	21,752,551	17.97
JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF	USD	231,660	0.27
JPMorgan ETFs (Ireland) ICAV - UK Equity Core UCITS ETF <sup>3</sup>	GBP	149,320	0.05
JPMorgan ETFs (Ireland) ICAV - USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD	6,733,868	7.52
JPMorgan ETFs (Ireland) ICAV - USD Emerging Markets Sovereign Bond UCITS ETF	USD	22,044	0.01
JPMorgan ETFs (Ireland) ICAV - USD Ultra-Short Income UCITS ETF	USD	16,816,412	7.47
<sup>1</sup> Sub-Eund launched on 15 February 2022.			

The table below details global exposure and the leverage employed as at 31 December 2021 for the Sub-Funds that use commitment approach and held FDI positions during the year ended 31 December 2021.

Sub-Fund Name	Currency	Global Exposure	Leverage
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF	USD	71,378	0.38
JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF	USD	47,585	0.10
JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF	EUR	4,693,300	12.07
JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF	EUR	31,941,130	16.71
JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF	EUR	20,548,672	1.84
JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF	GBP	226,757	0.20
JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF	USD	1,103,670	0.17
JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF	USD	370,403	0.63
JPMorgan ETFs (Ireland) ICAV - Global Research Enhanced Index Equity (ESG) UCITS ETF	USD	951,700	0.24
JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF	USD	47,585	0.29
JPMorgan ETFs (Ireland) ICAV - USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD	8,747,852	10.63
JPMorgan ETFs (Ireland) ICAV - USD Emerging Markets Sovereign Bond UCITS ETF	USD	21,222	-
JPMorgan ETFs (Ireland) ICAV - USD Ultra-Short Income UCITS ETF	USD	19,199,118	7.27

#### Offsetting

The ICAV complies with the amendment to IFRS 7 "Disclosures - Offsetting Financial Assets and Financial Liabilities", and amendments to IAS32, which requires entities to disclose both gross and net information for derivatives and other financial instruments that are either offset in the Statement of Financial Position or subject to an enforceable master netting arrangement or similar agreement.

The regulatory guidance permits the offsetting of buying and selling positions on financial derivative instruments with identical underlying assets (reference rates, reference assets, etc.), and the offsetting of financial derivative instruments and assets held directly by a UCITS that are identical to those that underlie the offset derivatives.

As at 31 December 2022 and 31 December 2021, there were no netting arrangements with derivative counterparties in the Sub-Funds. All of the derivative assets and liabilities of the Sub-Funds are held with counterparties and margin balances are maintained by the Sub-Funds for the purpose of providing collateral on these derivative positions.

#### (c) Liquidity risk

Liquidity risk is defined as the risk that a fund could not meet requests to redeem shares issued by the Sub-Fund without significant dilution of the remaining investors' interests. The Sub-Funds manage their liquidity risk by investing mainly in readily realisable securities. The main liability of the Sub-Funds is the redemption of any shares that investors wish to sell. They therefore invest the majority of their assets in investments that are traded in an active market. All of the Sub-Funds' financial liabilities are payable in one year or less or on demand.

If a redeeming Shareholder requests redemption of a number of Shares representing 5% or more of the Net Asset Value of a Sub-Fund, the Management Company may, in its sole discretion, redeem the Shares by way of a redemption in kind and in such circumstances the Management Company will, if requested by the redeeming Shareholder, sell the investments on behalf of the Shareholder. (The cost of the sale can be charged to the Shareholder). Where a redemption is requested for a number of Shares representing less than 5% of the Net Asset Value of a Sub-Fund, the Management Company may only redeem the Shares by way of a redemption in kind with the consent of the redeeming Shareholder.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 9 August 2022.

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 14 June 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 10. Financial risk management (continued)

#### 10.1 Financial risk factors (continued)

#### (c) Liquidity risk (continued)

If redemption requests on any Dealing Day represent 10% or more of the Net Asset Value of a Sub-Fund, the Management Company may, in its discretion, refuse to redeem any Shares in excess of 10% (at any time including after the cut-off time on the Dealing Day). Any request for redemption on such Dealing Day shall be reduced rateably and the redemption requests shall be treated as if they were received on each subsequent Dealing Day until all Shares to which the original request related have been redeemed.

The Sub-Funds may periodically invest in derivative contracts traded over the counter rather than in an organised market. As a result, the Sub-Funds may not be able to liquidate quickly their investments in these instruments at an amount close to their fair value to meet its liquidity requirements, or be able to respond to specific events such as deterioration in the creditworthiness of any particular issuer. The residual contractual maturities of the majority of the financial liabilities held by the Fund are (except for redemptions and dividend payable to the shareholders) all within three months.

#### 10.2 Fair Value Estimation

The Sub-Funds are required to classify fair value measurements using a fair value hierarchy that reflects the significance of the inputs used in making the measurements. The fair value hierarchy has the following levels:

- Level 1: Inputs that are quoted market prices (unadjusted) in active markets for identical instruments;
- Level 2: Inputs other than quoted prices included within Level 1 that are observable either directly (i.e. as prices) or indirectly (i.e. derived from prices). This category includes instruments valued using: quoted market prices in active markets for similar instruments; quoted prices for identical or similar instruments in markets that are considered less than active; or other valuation techniques in which all significant inputs are directly or indirectly observable from market data; and
- Level 3: Inputs that are unobservable. This category includes all instruments for which the valuation technique includes inputs not based on observable data and the unobservable inputs have a significant effect on the instrument's valuation. This category includes instruments that are valued based on quoted prices for similar instruments but for which significant unobservable adjustments or assumptions are required to reflect differences between the instruments.

The level in the fair value hierarchy within which the fair value measurement is categorised in its entirety is determined on the basis of the lowest level input that is significant to the fair value measurement. For this purpose, the significance of an input is assessed against the fair value measurement in its entirety. If a fair value measurement uses observable inputs that require significant adjustment based on unobservable inputs, that measurement is a Level 3 measurement. Assessing the significance of a particular input to the fair value measurement in its entirety requires judgement, considering factors specific to the asset or liability.

The determination of what constitutes 'observable' requires significant judgement by the ICAV. The ICAV considers observable data to be market data that is readily available, regularly distributed or updated, reliable and verifiable, not proprietary, and provided by independent sources that are actively involved in the relevant market.

The following table analyses within the fair value hierarchy the Sub-Funds' financial assets and liabilities measured at fair value at 31 December 2022:

Currency	Level 1	Level 2	Level 3	Total
ity (ESG) UCITS ETF <sup>1</sup>				
LICD	10.720.040			10 720 0 40
	, ,	-	-	19,728,040
USD	859	=	=	859
USD	19,728,899	-	-	19,728,899
IICD		02 100 054		83,108,856
	-		-	
USD	-	106,311	-	106,311
USD	-	83,215,167	-	83,215,167
USD	-	(588,967)	-	(588,967)
USD		(588,967)	-	(588,967)
EUR	-	55,208,241	-	55,208,241
EUR		55,208,241		55,208,241
	usd usd usd usd usd usd usd usd usd	USD 19,728,040 USD 859 USD 19,728,899  USD - USD - USD - USD - USD - USD -	USD 19,728,040 - USD 859 - USD 19,728,899 -  USD - 83,108,856 USD - 106,311  USD - 83,215,167  USD - (588,967)  USD - (588,967)  USD - 55,208,241	USD 19,728,040

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.2 Fair Value Estimation (continued)

		Level 2	Level 3	Total
EUR	-	15,258,323	-	15,258,323
EUR	-	15,258,323	-	15,258,323
GBP	-	37,573,253	-	37,573,253
GBP		37,573,253	-	37,573,253
USD	18,441,886	-	-	18,441,886
USD	18,441,886	-	-	18,441,886
	(1.5.5)			(, , , , , )
USD	(1,303)	-	-	(1,303)
USD	(1,303)	-	-	(1,303)
USD	19,278,557	-	-	19,278,557
USD	19,278,557	-	-	19,278,557
USD	(763)	-	-	(763)
USD	(763)	<u> </u>	-	(763)
USD	-	2,469,658,284	-	2,469,658,284
USD	-	11,522,142	-	11,522,142
USD	-	2,481,180,426	-	2,481,180,426
USD	-	(35,069,058)	-	(35,069,058)
USD		(35.069.058)		(35,069,058)
	GBP GBP USD USD USD USD USD USD USD USD USD	GBP - GBP - USD 18,441,886 USD (1,303) USD (1,303) USD (1,303) USD 19,278,557 USD 19,278,557 USD (763) USD (763) USD - USD -	EUR - 15,258,323  GBP - 37,573,253  USD 18,441,886 - USD 18,441,886 - USD (1,303) - USD (763) - USD (763	EUR       -       15,258,323       -         GBP       -       37,573,253       -         USD       18,441,886       -       -         USD       18,441,886       -       -         USD       (1,303)       -       -         USD       19,278,557       -       -         USD       19,278,557       -       -         USD       (763)       -       -         USD       -       2,469,658,284       -         USD       -       2,469,658,284       -         USD       -       2,481,180,426       -         USD       -       2,481,180,426       -         USD       -       2,481,180,426       -

<sup>&</sup>lt;sup>3</sup>Sub-Fund launched on 9 August 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

# 10. Financial risk management (continued)

## 10.2 Fair Value Estimation (continued)

	Currency	Level 1	Level 2	Level 3	Total
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF					
Financial assets at fair value through profit or loss:					
Bonds	USD	-	106,967,204	-	106,967,204
Forward Currency Contracts	USD	-	474,241	-	474,241
Total Financial assets	USD		107,441,445	-	107,441,445
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(2,642,165)	-	(2,642,165)
Total Financial liabilities	USD		(2,642,165)	_	(2,642,165)
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF					
Financial assets at fair value through profit or loss:					
Bonds	USD	-	91,764,567	-	91,764,567
Forward Currency Contracts	USD	-	7,988	-	7,988
Total Financial assets	USD	-	91,772,555	-	91,772,555
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(34,875)	-	(34,875)
Total Financial liabilities	HCD		(24.975)		(24.975)
Total Financial Habilities	USD	<del>-</del>	(34,875)	-	(34,875)
BetaBuilders US Treasury Bond UCITS ETF					
Financial assets at fair value through profit or loss:					
Bonds	USD	-	210,139,275	-	210,139,275
Forward Currency Contracts	USD	-	274,002	-	274,002
Total Financial assets	USD		210,413,277	-	210,413,277
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(627,308)	-	(627,308)
Total Financial liabilities	USD		(627,308)	_	(627,308)
Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup> Financial assets at fair value through profit or loss:					
Equities	USD	4,984,786	-	-	4,984,786
Total Financial assets	USD	4,984,786		-	4,984,786
Carbon Transition Global Equity (CTB) UCITS ETF					
Financial assets at fair value through profit or loss:					
Equities	USD	202,727,609	80,549	_	202,808,158
Forward Currency Contracts	USD	-	55,938	-	55,938
Total Financial assets	USD	202,727,609	136,487	-	202,864,096
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(16,224)	-	(16,224)
Financial Futures Contracts	USD	(4,328)	- -	-	(4,328)
Total Financial liabilities	USD	(4,328)	(16,224)		(20,552)
Total i mancial nabilities					

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.2 Fair Value Estimation (continued)

	Currency	Level 1	Level 2	Level 3	Total
China A Research Enhanced Index Equity (ESG) UCITS E	TF⁵				
Financial assets at fair value through profit or loss:					
Equities	USD	8,486,510	-	-	8,486,510
Total Financial assets	USD	8,486,510			8,486,510
Climate Change Solutions UCITS ETF <sup>6</sup>					
Financial assets at fair value through profit or loss: Equities	USD	13,031,317	-	_	13,031,317
					· ·
Total Financial assets	USD	13,031,317	-	-	13,031,317
EUR Corporate Bond 1-5 yr Research Enhanced Index (I Financial assets at fair value through profit or loss:	ESG) UCITS ETF				
Bonds	EUR	-	22,291,244	-	22,291,244
Total Financial assets	EUR		22,291,244	_	22,291,244
<b>EUR Corporate Bond Research Enhanced Index (ESG) U</b> <i>Financial assets at fair value through profit or loss:</i>	CITS ETF				
Bonds	EUR	-	121,469,004	-	121,469,004
Forward Currency Contracts	EUR	-	89,162	=	89,162
Total Financial assets	EUR	-	121,558,166	-	121,558,166
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	EUR	-	(570,642)	-	(570,642)
Total Financial liabilities	EUR		(570,642)	-	(570,642)
EUR Ultra-Short Income UCITS ETF					
Financial assets at fair value through profit or loss:					
Bonds	EUR	-	958,908,745	-	958,908,745
Forward Currency Contracts	EUR	-	3,422,565	-	3,422,565
Total Financial assets	EUR		962,331,310	-	962,331,310
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	EUR	-	(2,889,420)	-	(2,889,420)
Total Financial liabilities	EUR		(2,889,420)		(2,889,420)
Total Financial natinities	Laix		(2,007,420)		(2,007,420)
Europe Research Enhanced Index Equity (ESG) UCITS E Financial assets at fair value through profit or loss:	TF				
Equities	EUR	312,613,120	-	-	312,613,120
Total Financial assets	EUR	312,613,120	-	-	312,613,120
Eurozone Research Enhanced Index Equity (ESG) UCITS	ETF <sup>7</sup>				
Financial assets at fair value through profit or loss:					
Equities	EUR	93,221,706	-	-	93,221,706
Total Financial assets	EUR	93,221,706	-	-	93,221,706
<sup>5</sup> Sub-Fund launched on 15 February 2022.					

<sup>&</sup>lt;sup>5</sup>Sub-Fund launched on 15 February 2022. <sup>6</sup>Sub-Fund launched on 14 June 2022. <sup>7</sup>Sub-Fund launched on 26 April 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.2 Fair Value Estimation (continued)

Forward Currency Contracts		Currency	Level 1	Level 2	Level 3	Total
Serior						
Forward Currency Contracts   GBP   - 81,008   - 81,008   - 81,008   - 81,008   - 81,009   - 81,00		500				
Total Financial assets   GBP   - 6,019,168   - 6,0.0			-		-	60,988,160
Financial liabilities at fair value through profit or loss:   GBP   - (427,684)   -	Forward Currency Contracts	GRP	-	31,008	-	31,008
Forward Currency Contracts	Total Financial assets	GBP		61,019,168	-	61,019,168
Total Financial liabilities   GBP   - (427,684)   - (427	Financial liabilities at fair value through profit or loss:					
Clobal Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup>   Financial assets at fair value through profit or loss: Equities   USD   823,053,790   - 107,536   823,100     Total Financial assets   USD   823,053,790   - 107,536   823,100     Global Equity Multi-Factor UCITS ETF   Financial assets at fair value through profit or loss: Equities   USD   86,799,130   38,665   486   86,80     Financial Financial Isabilities at fair value through profit or loss: Financial Isabilities at fair value through profit or loss: Financial Isabilities at fair value through profit or loss: Financial Isabilities at fair value through profit or loss: Financial Isabilities at fair value through profit or loss: Financial Isabilities at fair value through profit or loss: Financial Isabilities at fair value through profit or loss: Financial Isabilities at fair value through profit or loss: Financial Isabilities at fair value through profit or loss: Forward Currency Contracts   USD   - 211,573,161	Forward Currency Contracts	GBP	-	(427,684)	-	(427,684)
Financial assets at fair value through profit or loss:         Equities         USD         823,053,790         -         107,536         823,1           Total Financial assets         USD         823,053,790         -         107,536         823,1           Global Equity Multi-Factor UCITS ETF Financial assets at fair value through profit or loss: Equities         USD         86,799,130         38,665         486         86,8           Total Financial Inabilities at fair value through profit or loss: Financial Inabilities at fair value through profit or loss: Financial Inabilities at fair value through profit or loss: Financial Inabilities at fair value through profit or loss: Forward Currency Contracts         USD         (4,713)         -         -         -           Global High Vield Corporate Bond Multi-Factor UCITS ETF Financial assets at fair value through profit or loss: Forward Currency Contracts         USD         -         211,573,161         -         212,173,161         -	Total Financial liabilities	GBP		(427,684)	-	(427,684)
Equities USD 823,053,790 - 107,536 823,1 Total Financial assets USD 823,053,790 - 107,536 823,1  Global Equity Multi-Factor UCITS ETF Financial assets at fair value through profit or loss: Equities USD 86,799,130 38,665 486 86,8  Financial Financial assets USD 86,799,130 38,665 486 86,8  Financial Financial Inabilities at fair value through profit or loss: Financial Financial Inabilities USD 4,713  Global High Yield Corporate Bond Multi-Factor UCITS ETF Financial Sests at fair value through profit or loss: Bonds USD 1- 211,573,161 - 211,573,161 - 211,573,161 - 33,50,44 - 33  Total Financial assets USD 2- 315,044 - 33  Total Financial assets USD 3- 211,908,205 - 211,908  Financial Financial Inabilities at fair value through profit or loss: Forward Currency Contracts USD 3- (1,260,543) - (1,260,543) - (1,260,543) - (1,260,543) - (1,260,543)  Financial Financial Inabilities USD 3- (1,260,543) - (1,260,543) - (1,260,543)  Forward Currency Contracts USD 1,101,672,405 1,101,672,405  Financial Inabilities at fair value through profit or loss: Forward Currency Contracts USD 1,101,672,405 - 1,515,201 - 1,103,101,672,405  Financial Inabilities at fair value through profit or loss: Forward Currency Contracts USD 1,101,672,405 1,515,201 - 1,103,101,672,405  Financial Inabilities at fair value through profit or loss: Forward Currency Contracts USD 1,101,672,405 1,515,201 - 1,103,101,472,472,473  Financial Inabilities at fair value through profit or loss: Financial Inabilities at fair value through profit or loss: Financial Inabilities at fair value through profit or lo		ity (ESG) UCITS ETF <sup>8</sup>				
Total Financial assets		LICD	022.052.700		107.527	022.171.227
Compared Currency Contracts   USD   Soleman	Equities	USD	823,053,790	-	107,536	823,161,326
Financial assets at fair value through profit or loss: Equities	Total Financial assets	USD	823,053,790	-	107,536	823,161,326
Equities USD 86,799,130 38,665 486 86,8  Total Financial sasets USD 86,799,130 38,665 486 86,8  Financial fiabilities at fair value through profit or loss: Financial Financial liabilities at fair value through profit or loss: Financial Financial liabilities USD (4,713)  Global High Yield Corporate Bond Multi-Factor UCITS ETF Financial assets at fair value through profit or loss: Bonds USD - 211,573,161 - 211,573,161 Forward Currency Contracts USD - 335,044 - 3  Total Financial sasets USD - 211,908,205 - 211,908  Financial liabilities at fair value through profit or loss: Forward Currency Contracts USD - (1,260,543) - (1,260,543)  Total Financial liabilities USD - (1,260,543) - (1,260,543)  Forward Currency Contracts USD - (1,260,543) - (1,260,543)  Financial fiabilities at fair value through profit or loss:  Forward Currency Contracts USD - (1,260,543) - (1,260,543)  Financial fiabilities at fair value through profit or loss:  Forward Currency Contracts USD - (1,260,543) - (1,260,543)  Financial fiabilities at fair value through profit or loss:  Forward Currency Contracts USD - (1,260,543) - (1,260,543)  Financial fiabilities at fair value through profit or loss:  Forward Currency Contracts USD - (1,260,543) - (1,260,543)  Financial fiabilities at fair value through profit or loss:  Forward Currency Contracts USD - (1,260,543) - (1,260,543)  Financial fiabilities at fair value through profit or loss:  Forward Currency Contracts USD - (1,260,543) - (1,260,543)  Financial fiabilities at fair value through profit or loss:	Global Equity Multi-Factor UCITS ETF					
Total Financial assets		LICD	07.700.120	20.445	407	07 020 201
Financial liabilities at fair value through profit or loss: Financial Futures Contracts  USD  (4,713)  -  Total Financial liabilities  USD  (4,713)  -  Global High Yield Corporate Bond Multi-Factor UCITS ETF Financial assets at fair value through profit or loss:  Bonds  USD  -  211,573,161  -  21,573,161  -  21,573,161  -  21,573,16	Equities	USD	86,799,130	38,665	486	86,838,281
Financial Futures Contracts         USD         (4,713)         -         -           Total Financial liabilities         USD         (4,713)         -         -           Global High Yield Corporate Bond Multi-Factor UCITS ETF Financial assets at fair value through profit or loss: Bonds	Total Financial assets	USD	86,799,130	38,665	486	86,838,281
Total Financial liabilities  USD  (4,713)  Global High Yield Corporate Bond Multi-Factor UCITS ETF Financial assets at fair value through profit or loss:  Bonds  USD  - 211,573,161						
Global High Yield Corporate Bond Multi-Factor UCITS ETF Financial assets at fair value through profit or loss:  Bonds USD - 211,573,161 - 211,1 Forward Currency Contracts USD - 211,908,205 - 211,908	Financial Futures Contracts	USD	(4,713)	-	-	(4,713)
Financial assets at fair value through profit or loss:   Bonds	Total Financial liabilities	USD	(4,713)	-	-	(4,713)
Bonds		F				
Forward Currency Contracts  USD  - 335,044 - 33  Total Financial assets  USD  - 211,908,205 - 211,908  Financial liabilities at fair value through profit or loss: Forward Currency Contracts  USD  - (1,260,543) - (1,26  Global Research Enhanced Index Equity (ESG) UCITS ETF  Financial assets at fair value through profit or loss: Equities Forward Currency Contracts  USD  1,101,672,405 - 1,515,201 - 1,103,13  Financial liabilities at fair value through profit or loss: Forward Currency Contracts  USD  1,101,672,405 1,515,201 - 1,103,13  Financial liabilities at fair value through profit or loss: Forward Currency Contracts  USD  - (1,957,801) - (1,957,801) - (1,957,801) - (1,957,801)		IISD	_	211 572 161	_	211,573,161
Financial liabilities at fair value through profit or loss: Forward Currency Contracts  USD  - (1,260,543)  - (1,26  - (1,260,543)  - (1,26  - (1,260,543)  - (1,26			- -		-	335,044
Financial liabilities at fair value through profit or loss: Forward Currency Contracts  USD  - (1,260,543)  - (1,26  - (1,260,543)  - (1,26  - (1,260,543)  - (1,26	Total Figureial assets	HCD		211 000 205		211 000 205
Forward Currency Contracts  USD  - (1,260,543)  - (1,26  Total Financial liabilities  USD  - (1,260,543)  - (1,26  Total Financial liabilities  USD  - (1,260,543)  - (1,26  Total Financial liabilities  Global Research Enhanced Index Equity (ESG) UCITS ETF  Financial assets at fair value through profit or loss:  Equities  USD  1,101,672,405  - 1,515,201  - 1,103,18  Financial liabilities at fair value through profit or loss:  Forward Currency Contracts  USD  - (1,957,801)  - (1,957,801)  - (1,957,801)  - (1,957,801)	Total Financial assets	USD	<del>-</del>	211,908,205	-	211,908,205
Total Financial liabilities  USD  - (1,260,543)  - (1,26  Global Research Enhanced Index Equity (ESG) UCITS ETF  Financial assets at fair value through profit or loss:  Equities  USD  1,101,672,405  - 1,515,201  - 1,103,18  Financial liabilities at fair value through profit or loss:  Forward Currency Contracts  USD  1,101,672,405  1,515,201  - 1,103,18  Financial liabilities at fair value through profit or loss:  Forward Currency Contracts  USD  - (1,957,801)  - (1,957,801)	Financial liabilities at fair value through profit or loss:					
Global Research Enhanced Index Equity (ESG) UCITS ETF Financial assets at fair value through profit or loss:  Equities USD 1,101,672,405 1,101,6 Forward Currency Contracts USD - 1,515,201 - 1,1  Total Financial assets USD 1,101,672,405 1,515,201 - 1,103,18  Financial liabilities at fair value through profit or loss: Forward Currency Contracts USD - (1,957,801) - (1,957,801)	Forward Currency Contracts	USD	-	(1,260,543)	-	(1,260,543)
Financial assets at fair value through profit or loss:  Equities USD 1,101,672,405 1,101,6 Forward Currency Contracts USD - 1,515,201 - 1,103,13  Total Financial assets USD 1,101,672,405 1,515,201 - 1,103,13  Financial liabilities at fair value through profit or loss: Forward Currency Contracts USD - (1,957,801) - (1,957,801)	Total Financial liabilities	USD		(1,260,543)	-	(1,260,543)
Equities USD 1,101,672,405 1,101,6 Forward Currency Contracts USD - 1,515,201 - 1,5 Inancial assets USD 1,101,672,405 1,5 Inancial liabilities at fair value through profit or loss:  Forward Currency Contracts USD - (1,957,801) - (1,957,801)		=				
Forward Currency Contracts  USD  - 1,515,201  - 1,515,201  - 1,03,15  Total Financial assets  USD  1,101,672,405  1,515,201  - 1,103,15  Financial liabilities at fair value through profit or loss: Forward Currency Contracts  USD  - (1,957,801)  - (1,957,801)		IISD	1 101 672 405	_	_	1,101,672,405
Financial liabilities at fair value through profit or loss:  Forward Currency Contracts  USD  - (1,957,801)  - (1,957,801)	·		-	1,515,201	-	1,515,201
Forward Currency Contracts	Total Financial assets	USD	1,101,672,405	1,515,201	-	1,103,187,606
Forward Currency Contracts USD - (1,957,801) - (1,957,801)	Financial liabilities at fair value through profit or loss					
Total Financial liabilities USD - (1,957,801) - (1,957,801)		USD	-	(1,957,801)	-	(1,957,801)
- (1,95/,801) - (1,95	Total Pinagolal Habilities	HCD		(1.057.001)		(1.057.001)
	TOTAL FINANCIAL HADIILIES	นวก		(1,95/,801)		(1,957,801)

<sup>&</sup>lt;sup>8</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

## 10.2 Fair Value Estimation (continued)

	Currency	Level 1	Level 2	Level 3	Total
Japan Research Enhanced Index Equity (ESG) UCITS ETF	9				
Financial assets at fair value through profit or loss:					
Equities	USD	57,374,475	-	-	57,374,475
Forward Currency Contracts	USD	-	12,894	-	12,894
Total Financial assets	USD	57,374,475	12,894	-	57,387,369
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(33,571)	-	(33,571)
Total Financial liabilities	USD	-	(33,571)	-	(33,571)
RMB Ultra-Short Income UCITS ETF <sup>10</sup>					
Financial assets at fair value through profit or loss: Bonds	USD	-	46,146,782	-	46,146,782
Total Financial assets	USD		46,146,782		46,146,782
Total Fillaticial assets	USD	<del>-</del>	46,146,782		40,140,782
UK Equity Core UCITS ETF <sup>11</sup>					
Financial assets at fair value through profit or loss:					
Closed-End Investment Funds	GBP	32,974	-	-	32,974
Equities	GBP	11,180,157	-	-	11,180,157
Financial Futures Contracts	GBP	195	-	-	195
Total Financial assets	GBP	11,213,326	-	-	11,213,326
US Research Enhanced Index Equity (ESG) UCITS ETF Financial assets at fair value through profit or loss:					
Equities	USD	1,992,964,827			1,992,964,827
Forward Currency Contracts	USD	1,992,904,027	520,304	_	520,304
Torward currency contracts	d3b		320,304		320,304
Total Financial assets	USD	1,992,964,827	520,304	-	1,993,485,131
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(86,461)	-	(86,461)
Total Financial liabilities	USD		(86,461)	-	(86,461)
USD Corporate Bond Research Enhanced Index (ESG) UG	CITS ETF				
Financial assets at fair value through profit or loss:					
Bonds	USD	-	89,378,602	-	89,378,602
Forward Currency Contracts	USD	-	528,292	-	528,292
Financial Futures Contracts	USD	19,195	-	-	19,195
Total Financial assets	USD	19,195	89,906,894	-	89,926,089
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(143,850)	-	(143,850)
Financial Futures Contracts	USD	(11,742)	-	-	(11,742)

<sup>&</sup>lt;sup>9</sup>Sub-Fund launched on 29 March 2022. <sup>10</sup>Sub-Fund launched on 1 March 2022. <sup>11</sup>Sub-Fund launched on 14 June 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

# 10. Financial risk management (continued)

## 10.2 Fair Value Estimation (continued)

	Currency	Level 1	Level 2	Level 3	Tota
USD Emerging Markets Sovereign Bond UCITS ETF					
Financial assets at fair value through profit or loss:	HCD		274 (55 120		274 (55 120
Bonds Forward Currency Contracts	USD USD	-	374,655,129 8,179,557	_	374,655,129 8,179,557
roiward currency contracts	usu		0,179,337		0,179,557
Total Financial assets	USD		382,834,686	-	382,834,686
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(978,988)	-	(978,988)
Total Financial liabilities	USD		(978,988)	-	(978,988)
USD Ultra-Short Income UCITS ETF					
Financial assets at fair value through profit or loss:	IICD		212 275 500		212 275 500
Bonds	USD	-	212,375,580	-	212,375,580
Total Financial assets	USD		212,375,580	-	212,375,580
Financial liabilities at fair value through profit or loss:					
Financial Futures Contracts	USD	(17,938)	-	-	(17,938)
Total Financial liabilities	USD	(17,938)			(17,938)
			bilities measured at fa	ir value at 31 Dec	
The following table analyses within the fair value h			bilities measured at fa Level 2	ir value at 31 Dec	
	ierarchy the Sub-Funds'	financial assets and lia			cember 2021:
The following table analyses within the fair value h  BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF  Financial assets at fair value through profit or loss:	ierarchy the Sub-Funds' Currency	financial assets and lia	Level 2		ember 2021: Total
The following table analyses within the fair value h  BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF  Financial assets at fair value through profit or loss:  Bonds	ierarchy the Sub-Funds'  Currency  EUR	financial assets and lia  Level 1  -	Level 2 140,231,548	Level 3	tember 2021: Total
The following table analyses within the fair value here following table analyses within the fair value here.  BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF  Financial assets at fair value through profit or loss:  Bonds  Total Financial assets  BetaBuilders EUR Govt Bond UCITS ETF  Financial assets at fair value through profit or loss:	ierarchy the Sub-Funds'  Currency  EUR  EUR	financial assets and lia  Level 1  -	Level 2 140,231,548 140,231,548	Level 3	Total 140,231,548
The following table analyses within the fair value h  BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF  Financial assets at fair value through profit or loss:  Bonds  Total Financial assets  BetaBuilders EUR Govt Bond UCITS ETF	ierarchy the Sub-Funds'  Currency  EUR	financial assets and lia  Level 1  -	Level 2 140,231,548	Level 3	tember 2021: Total
The following table analyses within the fair value here following table analyses within the fair value here.  BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF  Financial assets at fair value through profit or loss:  Bonds  Total Financial assets  BetaBuilders EUR Govt Bond UCITS ETF  Financial assets at fair value through profit or loss:	ierarchy the Sub-Funds'  Currency  EUR  EUR	financial assets and lia  Level 1  -	Level 2 140,231,548 140,231,548	Level 3	Total 140,231,548
The following table analyses within the fair value has been been been been been been been bee	ierarchy the Sub-Funds'  Currency  EUR  EUR  EUR	financial assets and lia  Level 1	140,231,548 140,231,548 44,523,826	Level 3	Total  140,231,548  140,231,548
The following table analyses within the fair value has been been been been been been been bee	ierarchy the Sub-Funds'  Currency  EUR  EUR  EUR	financial assets and lia  Level 1	140,231,548 140,231,548 44,523,826	Level 3	Total  140,231,548  140,231,548
The following table analyses within the fair value here following table analyses within the fair value here for the fair value analyses within the fair value here for the fair value and fair value through profit or loss:  Bonds  Total Financial assets  BetaBuilders EUR Govt Bond UCITS ETF  Financial assets at fair value through profit or loss:  Bonds  Total Financial assets  BetaBuilders UK Gilt 1-5 yr UCITS ETF  Financial assets at fair value through profit or loss:	ierarchy the Sub-Funds'  Currency  EUR  EUR  EUR  EUR  EUR	financial assets and lia  Level 1	Level 2  140,231,548  140,231,548  44,523,826  44,523,826	Level 3	Total  140,231,548  140,231,548  44,523,826
The following table analyses within the fair value here beta builders EUR Govt Bond 1-3 yr UCITS ETF  Financial assets at fair value through profit or loss:  Bonds  Total Financial assets  Beta Builders EUR Govt Bond UCITS ETF  Financial assets at fair value through profit or loss:  Bonds  Total Financial assets  Beta Builders UK Gilt 1-5 yr UCITS ETF  Financial assets at fair value through profit or loss:  Bonds  Total Financial assets  Total Financial assets  Beta Builders US Equity UCITS ETF	EUR EUR EUR EUR EUR EUR	financial assets and lia  Level 1	Level 2  140,231,548  140,231,548  44,523,826  44,523,826  28,179,717	Level 3	Total  140,231,548  140,231,548  44,523,826  44,523,826
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF Financial assets at fair value through profit or loss: Bonds Total Financial assets BetaBuilders EUR Govt Bond UCITS ETF Financial assets at fair value through profit or loss: Bonds Total Financial assets at fair value through profit or loss: Bonds Total Financial assets BetaBuilders UK Gilt 1-5 yr UCITS ETF Financial assets at fair value through profit or loss: Bonds Total Financial assets at fair value through profit or loss: Bonds Total Financial assets	EUR EUR EUR EUR EUR EUR	financial assets and lia  Level 1	Level 2  140,231,548  140,231,548  44,523,826  44,523,826  28,179,717	Level 3	Total  140,231,548  140,231,548  44,523,826  44,523,826
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF Financial assets at fair value through profit or loss: Bonds Total Financial assets  BetaBuilders EUR Govt Bond UCITS ETF Financial assets at fair value through profit or loss: Bonds  Total Financial assets at fair value through profit or loss: Bonds  Total Financial assets  BetaBuilders UK Gilt 1-5 yr UCITS ETF Financial assets at fair value through profit or loss: Bonds  Total Financial assets at fair value through profit or loss: Bonds  Total Financial assets	EUR EUR EUR GBP GBP	financial assets and lia  Level 1	Level 2  140,231,548  140,231,548  44,523,826  44,523,826  28,179,717	Level 3	140,231,548 140,231,548 140,231,548 44,523,826 44,523,826 28,179,717

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

# 10. Financial risk management (continued)

## 10.2 Fair Value Estimation (continued)

	Currency	Level 1	Level 2	Level 3	Total
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF					
Financial assets at fair value through profit or loss:					
Bonds	USD	-	2,074,068,451	-	2,074,068,451
Forward Currency Contracts	USD	-	149,654,923	-	149,654,923
Total Financial assets	USD		2,223,723,374	-	2,223,723,374
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(9,856,808)	-	(9,856,808)
Total Financial liabilities	USD		(9,856,808)	-	(9,856,808)
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>1</sup>					
Financial assets at fair value through profit or loss:					
Bonds	USD	_	28,747,060	_	28,747,060
Forward Currency Contracts	USD	-	1,723,445	-	1,723,445
Total Financial assets	USD		30,470,505		30,470,505
Total Filldificial assets	usb		30,470,505		30,470,303
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(91,609)	-	(91,609)
Total Financial liabilities	USD		(91,609)	-	(91,609)
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF					
Financial assets at fair value through profit or loss:					
Bonds	USD	-	142,527,731	-	142,527,731
Forward Currency Contracts	USD	-	21,002	-	21,002
Total Financial assets	USD		142,548,733	-	142,548,733
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(1,167)	-	(1,167)
Total Financial liabilities	USD		(1,167)	-	(1,167)
BetaBuilders US Treasury Bond UCITS ETF					
Financial assets at fair value through profit or loss:					
Bonds	USD	-	103,017,908	-	103,017,908
Forward Currency Contracts	USD	-	1,453,949	-	1,453,949
Total Financial assets	USD		104,471,857	-	104,471,857
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(471,687)	-	(471,687)
Total Financial liabilities	USD		(471,687)	-	(471,687)
Carbon Transition Global Equity (CTB) UCITS ETF					
Financial assets at fair value through profit or loss:					
Equities	USD	45,655,518	-	_	45,655,518
Financial Futures Contracts	USD	949	-	-	949
	HCD	45 (5) 4(7			45 (5( 4(7
Total Financial assets	USD	45,656,467			45,656,467

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

# 10. Financial risk management (continued)

## 10.2 Fair Value Estimation (continued)

Currency	Level 1	Level 2	Level 3	Total
(ESG) UCITS ETF				
EUR	-	38,607,900	-	38,607,900
EUR	4,560	=	-	4,560
EUR	4,560	38,607,900	-	38,612,460
EUR	(9,500)	-	-	(9,500)
EUR	(9,500)	-	-	(9,500)
IICITS ETE				
uciis eir				
EIID	_	180 403 175	_	189,403,175
	_		_	1,544
EUR	152,840	-	-	152,840
FUR	152.840	189.404.719		189,557,559
23.1		107, 10 1,717		107,337,337
EUR	-	(113)	-	(113)
EUR	(208,010)	-	-	(208,010)
EUR	(208,010)	(113)	-	(208,123)
EUR	-	1,047,970,483	-	1,047,970,483
EUR	-	1,364,499	-	1,364,499
EUR		1,049,334,982	-	1,049,334,982
EUR	-	(2,043,560)	-	(2,043,560)
EUD		(2.042.5(0)		(2.042.5(0)
EUK		(2,043,560)		(2,043,560)
ETF				
EUR	227,002,825	-	-	227,002,825
EUR	227,002,825	<del>-</del>	-	227,002,825
GBP	-	82,931,194	-	82,931,194
GBP	-	288,306	-	288,306
GBP		83,219,500	-	83,219,500
GBP	-	(52,708)	-	(52,708)
GRD		(E2 700)		(E2 700)
ימט		(52,708)		(52,708)
	(ESG) UCITS ETF  EUR EUR EUR  EUR  EUR  EUR  EUR  EUR	(ESG) UCITS ETF  EUR	EUR (208,010) (113)  EUR (208,010) (113)  EUR (2043,560)  EUR (2,043,560)  EUR (2,043,560)  EUR (207,002,825 -  EUR (28,306)  EUR (208,306)  EUR (208,306)  EUR (3,043,560)  EUR (3,043,560)	(ESG) UCITS ETF  EUR

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

# 10. Financial risk management (continued)

## 10.2 Fair Value Estimation (continued)

	Currency	Level 1	Level 2	Level 3	Total
Global Emerging Markets Research Enhanced Index Equ	ity (ESG) UCITS ETF				
Financial assets at fair value through profit or loss:					
Equities	USD	662,103,900	-	844,580	662,948,480
Financial Futures Contracts	USD	18,500	-	-	18,500
Total Financial assets	USD	662,122,400	-	844,580	662,966,980
Global Equity Multi-Factor UCITS ETF					
Financial assets at fair value through profit or loss:					
Equities	USD	58,784,418	11,772	-	58,796,190
Forward Currency Contracts	USD	-	886	-	886
Financial Futures Contracts	USD	1,908	=	-	1,908
Total Financial assets	USD	58,786,326	12,658	-	58,798,984
Global High Yield Corporate Bond Multi-Factor UCITS ET	F				
Financial assets at fair value through profit or loss:					
Bonds	USD	-	235,751,253	-	235,751,253
Forward Currency Contracts	USD	-	2,430,145	-	2,430,145
Total Financial assets	USD		238,181,398	-	238,181,398
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(996,291)	-	(996,291)
Fotal Financial liabilities	USD		(996,291)		(996,291)
Global Research Enhanced Index Equity (ESG) UCITS ETI Financial assets at fair value through profit or loss:	:				
Equities	USD	387,168,994	-	72,007	387,241,001
Forward Currency Contracts	USD	-	19,749	-	19,749
Financial Futures Contracts	USD	11,290	-	-	11,290
Total Financial assets	USD	387,180,284	19,749	72,007	387,272,040
Financial liabilities at fair value through profit or loss: Forward Currency Contracts	USD	-	(7,747)	_	(7,747)
· ·					
Fotal Financial liabilities	USD		(7,747)	-	(7,747)
JS Equity Multi-Factor UCITS ETF					
inancial assets at fair value through profit or loss:					
Equities	USD	16,416,727	-	-	16,416,727
inancial Futures Contracts	USD	574	-	-	574
Fotal Financial assets	USD	16,417,301	-	-	16,417,301
IS Research Enhanced Index Equity (ESG) UCITS ETF					
Financial assets at fair value through profit or loss:					
Equities	USD	959,980,627	-	-	959,980,627
Total Financial assets	USD	959,980,627			959,980,627
rotar i maneiai assets	450	737,900,027			737,700,027

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

## 10. Financial risk management (continued)

#### 10.2 Fair Value Estimation (continued)

As at 31 December 2021 (continued)

	Currency	Level 1	Level 2	Level 3	Total
USD Corporate Bond Research Enhanced Index (ESG) UG	CITS ETF				
Financial assets at fair value through profit or loss:					
Bonds	USD	-	81,207,133	-	81,207,133
Forward Currency Contracts	USD	-	247,129	-	247,129
Financial Futures Contracts	USD	20,508	-	_	20,508
Total Financial assets	USD -	20,508	81,454,262	-	81,474,770
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(123,267)	-	(123,267)
Financial Futures Contracts	USD	(35,422)	-	-	(35,422)
Total Financial liabilities	USD _	(35,422)	(123,267)		(158,689)
USD Emerging Markets Sovereign Bond UCITS ETF Financial assets at fair value through profit or loss:					
Bonds	USD	-	500,689,888	-	500,689,888
Forward Currency Contracts	USD	-	4,336,068	-	4,336,068
Total Financial assets	USD -	-	505,025,956	-	505,025,956
Financial liabilities at fair value through profit or loss:					
Forward Currency Contracts	USD	-	(1,911,041)	-	(1,911,041)
Total Financial liabilities	USD _	-	(1,911,041)	-	(1,911,041)
USD Ultra-Short Income UCITS ETF					
Financial assets at fair value through profit or loss:	LICD		240 450 022		240 450 022
Bonds Financial Futures Contracts	USD	- (2.461	260,459,922	-	260,459,922
Financial Futures Contracts	USD	62,461	-	-	62,461
Total Financial assets	USD _	62,461	260,459,922	-	260,522,383
The following tables show the transfers between le	vels during the year ende	ed 31 December 2022.			
Global Equity Multi-Factor UCITS ETF		Currency	Level 1	Level 2	Level 3
Equities		USD	(486)	-	486
Global Emerging Markets Research Enhanced Index Equ	iity (ESG) UCITS ETF <sup>1</sup>	Currency	Level 1	Level 2	Level 3
Equities			(70.080)	-	70,080
Equities <sup>1</sup> JPMorgan Funds - Global Emerging Markets Research Enhanced In ETF on 20 May 2022.	, , ,	USD	(70,080)	-	70,08

As at 31 December 2022, certain Equity securities were transferred from Level 1 to Level 3 as a result of a decrease in the quotes available for valuation of these securities.

The following tables show the transfers between levels during the year ended 31 December 2021.

Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF	Currency	Level 1	Level 2	Level 3
Equities	USD	(844,580)	-	844,580
Global Research Enhanced Index Equity (ESG) UCITS ETF	Currency	Level 1	Level 2	Level 3
Equities	USD	(72,007)	-	72,007

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 10. Financial risk management (continued)

#### 10.2 Fair Value Estimation (continued)

As at 31 December 2021, certain Equity securities were transferred from Level 1 to Level 3 as a result of a decrease in the quotes available for valuation of these securities.

Transfers between levels of the fair value hierarchy, for the purpose of preparing the above tables, are deemed to have occurred at the end of the reporting year.

The Level 3 positions held by the Sub-Funds as at 31 December 2022 had been valued using the following valuation techniques a) a 99% haircut from the last appropriate traded price that was thought to be indicative of their respective market prices, for Russian equities due to the positions being untradeable or b) at the latest available price or on the basis of their reasonably foreseeable sales price determined with prudence and in good faith by the Board of Directors that was thought to be indicative of their respective market prices, but where each had unobservable inputs assumed in their valuations for non-Russian equities. The Level 3 positions held by the Sub-Funds as at 31 December 2021 had been valued at the latest available price or on the basis of their reasonably foreseeable sales price determined with prudence and in good faith by the Board of Directors that was thought to be indicative of their respective market prices, but where each had unobservable inputs assumed in their valuations.

**Fauities** 

The following tables present a reconciliation of the closing balance for Level 3 securities held by the Sub-Funds as at 31 December 2022.

	Equities
Global Equity Multi-Factor UCITS ETF	USD
Opening balance	-
Purchases	-
Sales	-
Transfers into/(out of) Level 3	486
Net gains/(losses) recognised in net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	
Closing balance	486
	Equities
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD
Opening balance	844,580
Purchases	3,896,481
Sales	(496,904)
Transfers into/(out of) Level 3	78,080
Net gains/(losses) recognised in net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	(4,214,701)
Closing balance	107,536
<sup>1</sup> JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhance ETF on 20 May 2022.	ed Index Equity (ESG) UCITS
	Equities
Global Research Enhanced Index Equity (ESG) UCITS ETF	USD
Opening balance	72,007
Purchases	-
Sales	(84,598)
Transfers into/(out of) Level 3	-
Net gains/(losses) recognised in net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	12,591
Closing balance	-

The following tables present a reconciliation of the closing balance for Level 3 securities held by the Sub-Funds as at 31 December 2021.

	Equities
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF	USD
Opening balance	-
Purchases	-
Sales	-
Transfers into/(out of) Level 3	844,580
Net gains/(losses) recognised in net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	<u> </u>
Closing balance	844,580

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 10. Financial risk management (continued)

#### 10.2 Fair Value Estimation (continued)

	Equities
Global Research Enhanced Index Equity (ESG) UCITS ETF	USD
Opening balance	-
Purchases	-
Sales	-
Transfers into/(out of) Level 3	72,007
Net gains/(losses) recognised in net gain/(loss) in fair value on financial assets and financial liabilities at fair value through profit or loss	<u>-</u>
Closing balance	72,007

All other current assets and current liabilities included in the Statement of Financial Position as at 31 December 2022 and 31 December 2021 are carried at values that reflect a reasonable approximation of their fair value.

As at 31 December 2022 and 31 December 2021, cash, bank overdraft and amounts due from brokers are classified as Level 1. Cash equivalents are classified as Level 2. All other assets and liabilities not measured at fair value but for which fair value is disclosed are classified as Level 2.

#### 11. Taxation of the ICAV

The ICAV is an investment undertaking as defined in Section 739B of the Taxes Consolidation Act 1997, as amended ("TCA"). The ICAV will not be liable to Irish tax in respect of its income and gains, other than on the occurrence of a chargeable event.

Generally a chargeable event arises on any distribution, redemption, repurchase, cancellation, transfer of shares or on the ending of a 'Relevant Period'. A Relevant Period being an eight year period beginning with the acquisition of the shares by the shareholder and each subsequent period of eight years beginning immediately after the preceding Relevant Period.

No Irish tax will arise on the ICAV in respect of chargeable events in respect of:

- A shareholder who is neither Irish resident nor ordinarily resident in Ireland for tax purposes, at the time of the chargeable event, provided appropriate valid declarations in accordance with the provisions of the Taxes Consolidation Act, 1997, as amended, are held by the ICAV; or the ICAV has been authorised by the Irish Revenue to make gross payments in the absence of appropriate declarations; and
- Certain exempted Irish tax resident shareholders who have provided the ICAV with the necessary signed statutory declarations.

Dividends, interest and capital gains (if any) received on investments by the ICAV may be subject to taxes imposed by the country from which the investment income/gains are received and such taxes may not be recoverable by the ICAV or its shareholders.

The Directors intend to seek UK reporting fund status for all Share Classes. For further information on UK reporting fund status including details of the reportable income of each relevant Share Class (available annually within 6 months of the end of the relevant reporting period), please go to the Website.

#### 12. Related party transactions and holdings

Related party disclosures

Parties are considered to be related if one party has the ability to control the other party or exercise significant influence over the party in making financial or operational decisions. In the opinion of the Directors, the list of related parties under IAS 24 "Related Party Transactions" is as follows:

- The Directors of the Fund and their dependents
- The Investment Managers J.P. Morgan Investment Inc and JPMorgan Asset Management (UK) Limited
- The Management Company JPMorgan Asset Management (Europe) S.à r.l.
- The Secretary of the ICAV J.P. Morgan Administration Services (Ireland) Limited
- The securities lending agent J.P. Morgan SE Luxembourg Branch (J.P. Morgan Bank Luxembourg S.A. until 22 January 2022)
- JPMorgan Liquidity Funds
- JPMorgan Chase & Co. and its subsidiaries.

The Board of Directors is not aware of any transactions with related parties during the the year ended 31 December 2022 and 31 December 2021 other than those disclosed in these financial statements.

As at 31 December 2022 and 31 December 2021, certain Sub-Funds had made investments in JPMorgan Liquidity Funds which is deemed to be related party of the ICAV. Details of investments in JPMorgan Liquidity Funds are outlined in Sub-Funds' Schedules of Investments. The table below details the percentage of net assets of JPMorgan Liquidity Funds held by each Sub-Fund as at the reporting date:

			% of Net As	ssets held by	Realised G	ain/(Loss)	Inco	me
Sub-Fund	Currency	Investment	31 December 2022	31 December 2021	31 December 2022	31 December 2021	31 December 2022	31 December 2021
JPMorgan ETFs (Ireland) ICAV - AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	_*	_*	-	-	3,717	-
JPMorgan ETFs (Ireland) ICAV - BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup>	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	_*	_*	-	-	17	-
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.00	0.00	-	-	1,060	65
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>3</sup>	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.00	0.00	-	-	30,835	39

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022

Sub-Fund launched on 17 February 2021.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 12. Related party transactions and holdings (continued)

Related party disclosures (continued)

			% of Net Asse Sub-Fur		Realised Gai	n/(Loss)	Incon	20
			31 December 31			, ,		
Sub-Fund	Currency	Investment	2022	2021	2022	2021	2022	2021
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.00	0.00	-	=	3,689	160
JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	_*	0.00	-	-	3	2
JPMorgan ETFs (Ireland) ICAV - China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>4</sup>	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	_*	_*	-	-	169	-
JPMorgan ETFs (Ireland) ICAV - Climate Change Solutions UCITS ETF <sup>5</sup>	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.00	_*	-	-	1,645	-
JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF	EUR	JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund	0.58	0.36	(106,739)	(450,674)	-	-
JPMorgan ETFs (Ireland) ICAV - Europe Research Enhanced Index Equity (ESG) UCITS ETF	EUR	JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund	0.01	0.01	(3,132)	(6,864)	-	-
JPMorgan ETFs (Ireland) ICAV - Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup>	EUR	JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund	0.00	_*	660	-	-	-
JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF	GBP	JPMorgan Liquidity Funds - GBP Liquidity LVNAV Fund	0.08	0.07	-	-	118,624	4,993
JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup>	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.01	0.00	-	-	83,413	2,702
JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	_*	_*	-	-	563	=
JPMorgan ETFs (Ireland) ICAV - Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.00	0.00	-	-	9,218	1,010
JPMorgan ETFs (Ireland) ICAV - Global Research Enhanced Index Equity (ESG) UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.01	0.00	-	-	92,273	8,413
JPMorgan ETFs (Ireland) ICAV - Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>8</sup>	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.00	_*	-	-	2,593	-
JPMorgan ETFs (Ireland) ICAV - UK Equity Core UCITS ETF <sup>5</sup>	GBP	JPMorgan Liquidity Funds - GBP Liquidity LVNAV Fund	0.00	_*	-	-	182	-
JPMorgan ETFs (Ireland) ICAV - US Research Enhanced Index Equity (ESG) UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.00	0.00	-	-	65,812	2,014
JPMorgan ETFs (Ireland) ICAV - USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.00	0.00	-	-	7,167	866
JPMorgan ETFs (Ireland) ICAV - USD Emerging Markets Sovereign Bond UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.00	0.00	-	-	19,379	2,536
JPMorgan ETFs (Ireland) ICAV - USD Ultra-Short Income UCITS ETF	USD	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund	0.01	0.01	-	-	245,884	17,968
*Investment not held as at 31 December 2022 or 31 December 20	21.							

As at 31 December 2022 and 31 December 2021, shares of certain Sub-Funds are held by an affiliated entity of JPMorgan Chase & Co.

	JPMC owi	nership %
Sub-Fund	31 December 2022	31 December 2021
IDMoscoop FTFs (Isoland) ICAV AC Asia Posific as Japan Desperah Fahansad Jaday Fayity (FFC) IISITS FTF	40.12	*
JPMorgan ETFs (Ireland) ICAV - AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup> JPMorgan ETFs (Ireland) ICAV - BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup>	40.12	-"
0 0	55.75	-"
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup>	47.52	-"
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 1-3 yr UCITS ETF	0.34	1.08
JPMorgan ETFs (Ireland) ICAV - Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup>	97.96	_*
JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF	10.98	59.88
JPMorgan ETFs (Ireland) ICAV - China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	92.89	_*
JPMorgan ETFs (Ireland) ICAV - Climate Change Solutions UCITS ETF <sup>5</sup>	81.57	_*
JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF	21.85	52.68
JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF	66.57	61.25
JPMorgan ETFs (Ireland) ICAV - Europe Research Enhanced Index Equity (ESG) UCITS ETF	0.10	43.80
JPMorgan ETFs (Ireland) ICAV - Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup>	9.27	_*
JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF	14.88	36.23
JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF	_*	21.27
JPMorgan ETFs (Ireland) ICAV - Global High Yield Corporate Bond Multi-Factor UCITS ETF	0.33	6.49
JPMorgan ETFs (Ireland) ICAV - Global Research Enhanced Index Equity (ESG) UCITS ETF	0.03	0.36
JPMorgan ETFs (Ireland) ICAV - Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup>	22.91	_*

<sup>\*</sup>Sub-Fund launched on 15 February 2022.

\*Sub-Fund launched on 15 House 2022.

\*Sub-Fund launched on 14 June 2022.

\*Sub-Fund launched on 26 April 2022.

\*Sub-Fund launched on 26 April 2022.

\*June 2022.

\*Sub-Fund launched on 26 April 2022.

\*Sub-Fund launched on 26 April 2022.

\*Sub-Fund launched on 26 April 2022.

\*Sub-Fund launched on 26 March 2022.

\*Sub-Fund launched on 29 March 2022.

\*Sub-Fund launched on 29 March 2022.

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022. <sup>2</sup>Sub-Fund launched on 17 March 2022. <sup>3</sup>Sub-Fund launched on 9 August 2022. <sup>4</sup>Sub-Fund launched on 6 December 2022. <sup>5</sup>Sub-Fund launched on 14 June 2022. <sup>6</sup>Sub-Fund launched on 26 April 2022.

<sup>&</sup>lt;sup>7</sup>Sub-Fund launched on 29 March 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 12. Related party transactions and holdings (continued)

Related party disclosures (continued)

	JPMC owr	nership %
Sub-Fund	31 December 2022	31 December 2021
JPMorgan ETFs (Ireland) ICAV - RMB Ultra-Short Income UCITS ETF <sup>8</sup>	93.23	_*
JPMorgan ETFs (Ireland) ICAV - UK Equity Core UCITS ETF <sup>9</sup>	91.20	_*
JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF <sup>10</sup>	_*	88.85
JPMorgan ETFs (Ireland) ICAV - USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	_*	0.23
JPMorgan ETFs (Ireland) ICAV - USD Emerging Markets Sovereign Bond UCITS ETF	0.08	0.06
<sup>8</sup> Sub-Fund launched on 1 March 2022. <sup>9</sup> Sub-Fund launched on 14 June 2022. <sup>10</sup> Sub-Fund liquidated on 23 November 2022.  *There were no shares owned by JPMC as at 31 December 2022 or 31 December 2021.		

As at 31 December 2022 and 31 December 2021, the following Sub-Fund held shares of JPMorgan Chase & Co.:

			Sh	ares	Fair	Value	% of Ne	t Assets	Realised Ga	ain/(Loss)	Inc	come
Sub-Fund	Currency	Investment	31 Dec 2022	31 Dec 2021								
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF	USD	JPMorgan Chase & Co.	1,612	1,284	216,169	203,321	1.17	1.09	(1,592)	11,595	4,774	3,311

All transactions with related parties were carried out on an arm's length basis.

#### Directors' Fees

Each Director is entitled to a fee by way of remuneration for their services at a rate to be determined from time to time by the Directors. All Directors are entitled to reimbursement by the ICAV of expenses properly incurred in connection with the business of the ICAV or discharge of their duties.

The aggregate emoluments of the Directors for the year ended 31 December 2022 was USD 145,318 (31 December 2021: USD 132,298), of which USD Nil is outstanding at the year end (31 December 2021: USD Nil).

The only remuneration paid to Directors is an annual fee. This is waived by Mr. Watkins.

#### 13. Distributions

Distributions for the year ended 31 December 2022 were as follows:

Sub-Funds	Share Class	Sub-Fund Currency	Ex-Date	Distribution per Share	Amount
AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD (dist)	USD	21/04/2022	0.0885	17,700
AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD (dist)	USD	14/07/2022	0.2434	48,680
AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD (dist)	USD	13/10/2022	0.1777	35,540
BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup>	USD (dist)	USD	14/07/2022	0.7378	186,147
BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup>	USD Hedged (dist)	USD	14/07/2022	0.4242	2,121
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	13/01/2022	0.0200	5,966
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	10/02/2022	0.0165	5,294
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	10/03/2022	0.0206	6,732
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	21/04/2022	0.0216	8,571
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	12/05/2022	0.0422	17,168
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	09/06/2022	0.0383	15,964
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	14/07/2022	0.0538	23,689
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	11/08/2022	0.0548	24,403
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	08/09/2022	0.0620	29,035
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	13/10/2022	0.1026	41,893
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	10/11/2022	0.1084	43,568
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	08/12/2022	0.0945	38,170
BetaBuilders US Equity UCITS ETF	USD (dist)	USD	13/01/2022	0.1148	7,555
BetaBuilders US Equity UCITS ETF	USD (dist)	USD	21/04/2022	0.1054	7,991
BetaBuilders US Equity UCITS ETF	USD (dist)	USD	14/07/2022	0.1409	8,773
BetaBuilders US Equity UCITS ETF	USD (dist)	USD	13/10/2022	0.1245	5,147
BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup>	USD (dist)	USD	13/10/2022	0.0300	17,566
China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD (dist)	USD	14/07/2022	0.1807	36,140
China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>	USD (dist)	USD	13/10/2022	0.1764	35,280
Europe Research Enhanced Index Equity (ESG) UCITS ETF	EUR (dist)	EUR	13/01/2022	0.0180	630
Europe Research Enhanced Index Equity (ESG) UCITS ETF	EUR (dist)	EUR	21/04/2022	0.2448	4,688
Europe Research Enhanced Index Equity (ESG) UCITS ETF	EUR (dist)	EUR	14/07/2022	0.6793	9,381
Europe Research Enhanced Index Equity (ESG) UCITS ETF	EUR (dist)	EUR	13/10/2022	0.0915	2,768
Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>4</sup>	EUR (dist)	EUR	14/07/2022	0.3765	68,523
Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>4</sup>	EUR (dist)	EUR	13/10/2022	0.0568	10,438
10ub Fund Jaunghad on 15 Fabruary 2022					

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022.

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 March 2022. <sup>3</sup>Sub-Fund launched on 9 August 2022.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 13. Distributions (continued)

For the year ended 31 December 2022 (continued)

Sub-Funds	Share Class	Sub-Fund Currency	Ex-Date	Distribution per Share	Amount
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	13/01/2022	0.0240	21,950
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	10/02/2022	0.0245	22,545
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	10/03/2022	0.0307	28,250
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	21/04/2022	0.0535	50,141
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	12/05/2022	0.0517	52,763
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	09/06/2022	0.0802	78,240
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	14/07/2022	0.0976	95,214
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	11/08/2022	0.0871	84,971
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	08/09/2022	0.1085	103,004
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	13/10/2022	0.1477	139,631
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	10/11/2022	0.1373	128,679
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	08/12/2022	0.1676	163,932
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup>	USD (dist)	USD	13/01/2022	0.2656	2,276
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup>	USD (dist)	USD	21/04/2022	0.0413	6,087
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup>	USD (dist)	USD	14/07/2022	0.3425	57,354
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>5</sup>	USD (dist)	USD	13/10/2022	0.2300	39,819
Global High Yield Corporate Bond Multi-Factor UCITS ETF	EUR Hedged (dist)	USD	14/07/2022	0.8274	1,738
Global High Yield Corporate Bond Multi-Factor UCITS ETF Global High Yield Corporate Bond Multi-Factor UCITS ETF	GBP Hedged (dist)	USD	13/01/2022	0.1752	2,333,596
Global Research Enhanced Index Equity (ESG) UCITS ETF	GBP Hedged (dist)	USD	14/07/2022	0.1730	2,647,272
1 7 7	USD (dist)	USD	13/01/2022	0.0987	1,375 2,007
Global Research Enhanced Index Equity (ESG) UCITS ETF	USD (dist)	USD	21/04/2022	0.1441	
Global Research Enhanced Index Equity (ESG) UCITS ETF	USD (dist) USD (dist)	USD USD	14/07/2022	0.1184 0.1261	3,329 5,489
Global Research Enhanced Index Equity (ESG) UCITS ETF			13/10/2022		
Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup> Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup>	USD (dist) USD (dist)	USD USD	14/07/2022 13/10/2022	0.2688 0.1700	74,773 50,357
RMB Ultra-Short Income UCITS ETF <sup>7</sup>	USD (dist)	USD	21/04/2022	0.1700	38,465
RMB Ultra-Short Income UCITS ETF	USD (dist)	USD	12/05/2022	0.1658	58,181
RMB Ultra-Short Income UCITS ETF	USD (dist)	USD	09/06/2022	0.1657	58,146
RMB Ultra-Short Income UCITS ETF <sup>7</sup>	USD (dist)	USD	14/07/2022	0.2131	55,600
RMB Ultra-Short Income UCITS ETF <sup>7</sup>	USD (dist)	USD	11/08/2022	0.1775	46,133
RMB Ultra-Short Income UCITS ETF <sup>7</sup>	USD (dist)	USD	08/09/2022	0.2118	55,048
RMB Ultra-Short Income UCITS ETF <sup>7</sup>	USD (dist)	USD	13/10/2022	0.2612	66,322
RMB Ultra-Short Income UCITS ETF <sup>7</sup>	USD (dist)	USD	10/11/2022	0.1382	35,090
RMB Ultra-Short Income UCITS ETF <sup>7</sup>	USD (dist)	USD	08/12/2022	0.0935	23,741
UK Equity Core UCITS ETF <sup>8</sup>	GBP (dist)	GBP	13/10/2022	0.3279	70,794
US Research Enhanced Index Equity (ESG) UCITS ETF	USD (dist)	USD	13/01/2022	0.3807	903,272
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD (dist)	USD	13/01/2022	1.2151	19,802
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD (dist)	USD	21/04/2022	0.6952	9,713
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD (dist)	USD	14/07/2022	0.5166	8,380
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD (dist)	USD	13/10/2022	0.7323	13,087
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	13/01/2022	0.3840	26,483
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	10/02/2022	0.3949	21,863
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	10/03/2022	0.3126	17,307
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	21/04/2022	0.3847	24,376
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	12/05/2022	0.2723	16,960
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	09/06/2022	0.2917	19,511
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	14/07/2022	0.3784	27,722
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	11/08/2022	0.2422	20,351
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	08/09/2022	0.3093	24,354
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	13/10/2022	0.3724	28,453
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	10/11/2022	0.2724	20,806
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	08/12/2022	0.2830	22,414
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	13/01/2022	0.3496	419,141
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	10/02/2022	0.3264	390,228
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	10/03/2022	0.3159	378,477
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	21/04/2022	0.3908	391,804
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	12/05/2022	0.4402	371,837
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	09/06/2022	0.3738	224,943
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	14/07/2022	0.4976	312,202
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	11/08/2022	0.3151	191,397
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	08/09/2022	0.3240	197,702
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	13/10/2022	0.3984	247,821
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	10/11/2022	0.3220	191,414
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	08/12/2022	0.3475	206,516
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	13/01/2022	0.0505	56,962
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	10/02/2022	0.0426	45,753
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	10/03/2022	0.0447	47,799
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	21/04/2022	0.0546	55,228

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Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 13. Distributions (continued)

Sub-Funds

For the year ended 31 December 2022 (continued)

Jub-r ulius	Silai e Class	Sub-rulia currency	LA-Date	Distribution per snare	Amoun
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	12/05/2022	0.0538	53,289
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	09/06/2022	0.0729	71,609
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	14/07/2022	0.0903	106,208
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	11/08/2022	0.0875	106,414
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	08/09/2022	0.1323	149,944
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	13/10/2022	0.1514	199,489
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	10/11/2022	0.1856	249,114
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	08/12/2022	0.1987	250,106
Distributions for the year ended 31 December 2021 were as	follows:				
Sub-Funds	Share Class	Sub-Fund Currency	Ex-Date	Distribution per Share	Amount
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	14/01/2021	0.0172	4,856
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	11/02/2021	0.0138	4,034
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	11/03/2021	0.0089	2,69
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	08/04/2021	0.0092	2,90
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	13/05/2021	0.0101	2,86
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	10/06/2021	0.0090	2,640
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP GBP	08/07/2021	0.0069 0.0076	2,093
BetaBuilders UK Gilt 1-5 yr UCITS ETF BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist) GBP (dist)	GBP	12/08/2021 09/09/2021	0.0076	2,38 2,328
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	14/10/2021	0.0072	3,536
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	11/11/2021	0.0092	3,342
BetaBuilders UK Gilt 1-5 yr UCITS ETF	GBP (dist)	GBP	09/12/2021	0.0125	4,541
BetaBuilders US Equity UCITS ETF	USD (dist)	USD	14/01/2021	0.1693	3,724
BetaBuilders US Equity UCITS ETF	USD (dist)	USD	08/04/2021	0.0464	3,341
BetaBuilders US Equity UCITS ETF	USD (dist)	USD	08/07/2021	0.0899	5,916
BetaBuilders US Equity UCITS ETF	USD (dist)	USD	14/10/2021	0.0942	6,200
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	14/01/2021	0.0417	35,318
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	11/02/2021	0.0371	31,793
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	11/03/2021	0.0321	26,843
GBP Ultra-Short Income UCITS ETF GBP Ultra-Short Income UCITS ETF	GBP (dist) GBP (dist)	GBP GBP	08/04/2021 13/05/2021	0.0321 0.0378	26,843 31,610
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	10/06/2021	0.0364	30,631
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	08/07/2021	0.0328	27,60
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	12/08/2021	0.0406	34,624
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	09/09/2021	0.0332	28,35
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	14/10/2021	0.0362	31,566
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	11/11/2021	0.0235	20,587
GBP Ultra-Short Income UCITS ETF	GBP (dist)	GBP	09/12/2021	0.0234	21,143
Global High Yield Corporate Bond Multi-Factor UCITS ETF	GBP Hedged (dist)	USD	14/01/2021	0.1711	1,475,328
Global High Yield Corporate Bond Multi-Factor UCITS ETF	GBP Hedged (dist)	USD	08/07/2021	0.1717	1,776,570
US Research Enhanced Index Equity (ESG) UCITS ETF	USD (dist)	USD	14/01/2021	0.3715	941,622
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD (dist) USD (dist)	USD USD	14/01/2021 08/04/2021	0.6564 0.6238	103,055 106,364
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD (dist)	USD	08/07/2021	0.6011	102,264
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF	USD (dist)	USD	14/10/2021	4.6997	90,906
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	14/01/2021	0.3566	4,426
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	11/02/2021	0.3057	4,933
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	11/03/2021	0.2533	7,760
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	08/04/2021	0.3029	9,735
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	13/05/2021	0.3980	23,456
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	10/06/2021	0.1522	8,968
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	08/07/2021	0.3388	19,965
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	12/08/2021	0.4009	25,229
USD Emerging Markets Sovereign Bond UCITS ETF USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist) GBP Hedged (dist)	USD USD	09/09/2021 14/10/2021	0.3291 0.3743	21,935 16,602
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	11/11/2021	0.3970	25,546
USD Emerging Markets Sovereign Bond UCITS ETF	GBP Hedged (dist)	USD	09/12/2021	0.3373	21,706
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	14/01/2021	0.3967	541,165
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	11/02/2021	0.3398	458,295
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	11/03/2021	0.3236	434,300
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	08/04/2021	0.3066	478,369
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	13/05/2021	0.4241	590,573
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	10/06/2021	0.3119	435,890
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	08/07/2021	0.3113	434,319
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	12/08/2021	0.4281	504,782
	HCD ( P. I)	LICD	00/00/000		
USD Emerging Markets Sovereign Bond UCITS ETF USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist) USD (dist)	USD USD	09/09/2021 14/10/2021	0.3069 0.3892	358,041 447,186

Share Class

**Sub-Fund Currency** 

Ex-Date

Distribution per Share

Amount

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 13. Distributions (continued)

For the year ended 31 December 2021 (continued)

Sub-Funds	Share Class	Sub-Fund Currency	Ex-Date	Distribution per Share	Amount
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	11/11/2021	0.3076	362,750
USD Emerging Markets Sovereign Bond UCITS ETF	USD (dist)	USD	09/12/2021	0.3188	387,379
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	14/01/2021	0.0826	66,037
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	11/02/2021	0.0828	64,504
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	11/03/2021	0.0654	56,344
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	08/04/2021	0.0832	65,619
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	13/05/2021	0.0655	57,828
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	10/06/2021	0.0608	52,827
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	08/07/2021	0.0502	43,919
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	12/08/2021	0.0537	52,082
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	09/09/2021	0.0348	33,584
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	14/10/2021	0.0512	53,813
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	11/11/2021	0.0233	35,578
USD Ultra-Short Income UCITS ETF	USD (dist)	USD	09/12/2021	0.0226	24,884

#### 14. Exchange rates

The following exchange rates were used at 31 December 2022 and 31 December 2021:

Currency	31 December 2022	31 December 2021	Currency	31 December 2022	31 December 2021	Currency	31 December 2022	31 December 2021
EUR = 1			USD = 1			JPY	131.9450	115.1550
AUD	1.5738	1.5641	AED	3.6727	3.6731	KRW	1,264.5000	1,188.7500
CAD	1.4461	1.4365	AUD	1.4746	1.3754	KWD	0.3061	0.3023
CHF	0.9874	1.0362	BRL	5.2798	5.5700	MXN	19.4873	20.4650
DKK	7.4364	7.4376	CAD	1.3550	1.2632	MYR	4.4050	4.1660
GBP	0.8872	0.8396	CHF	0.9252	0.9112	NOK	9.8510	8.8183
JPY	140.8183	130.9543	CLP	851.9500	852.0000	NZD	1.5812	1.4606
NOK	10.5135	10.0282	CNH	6.9189	6.3591	PHP	55.7275	50.9925
SEK	11.1202	10.2960	CNY	6.9517	*	PLN	4.3863	4.0304
USD	1.0673	1.1372	CZK	22.6320	21.8519	QAR	3.6418	3.6410
			DKK	6.9679	6.5403	RUB	73.0000	75.0063
GBP = 1			EUR	0.9370	0.8794	SAR	3.7580	3.7544
AUD	1.7738	1.8629	GBP	0.8313	0.7383	SEK	10.4195	9.0539
CAD	1.6299	1.7109	HKD	7.8050	7.7963	SGD	1.3412	1.3482
EUR	1.1271	1.1910	HUF	375.2167	324.0987	THB	34.6350	33.4050
JPY	158.7166	155.9717	IDR	15,567.5000	14,252.5000	TRY	*	13.2798
USD	1.2029	1.3545	ILS	3.5285	3.1124	TWD	30.7355	27.6670
			INR	82.7300	74.3357	ZAR	17.0150	15.9600

<sup>\*</sup> Currencies not held at 31 December 2022 or 31 December 2021.

#### 15. Commission Sharing Arrangements

The Investment Managers may enter into commission sharing arrangements only where there is a direct and identifiable benefit to the clients of the Investment Managers, including the ICAV, and where the Investment Managers are satisfied that the transactions generating the shared commissions are made in good faith, in strict compliance with applicable regulatory requirements and in the best interests of the ICAV and the Shareholders. Any such arrangement must be made by the Investment Manager on terms commensurate with best market practice. Due to their local regulatory rights, certain Investment Managers may make use of soft commission to pay for research or execution services. Other jurisdictions may have other arrangements in place to pay for such services in accordance with local regulatory obligations.

For the year ended 31 December 2022, JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF paid USD 55 of soft dollar commissions attributed to research (31 December 2021: USD 933).

For the year ended 31 December 2022, JPMorgan ETFs (Ireland) ICAV - US Research Enhanced Index Equity (ESG) UCITS ETF paid USD 145,219 of soft dollar commissions attributed to research (31 December 2021: USD 43,168).

#### 16. Efficient portfolio management

The ICAV may employ investment techniques and use financial derivative instruments for efficient portfolio management of the assets of any Sub-Fund including hedging against market movements, currency exchange or interest rate risks subject to the conditions and within the limits laid down by the Central Bank and the Prospectus. The ICAV did not employ any efficient portfolio management techniques in the form of investment in repurchase or reverse repurchase agreements during the year ended 31 December 2022 and 31 December 2021. The information on securities lending transactions entered by the ICAV during the year ended 31 December 2022 and 31 December 2021 are detailed in Note 18 and the Securities Financing Transactions appendix.

The use of FDI by any Sub-Fund for investment purposes or for efficient portfolio management will be described in the Relevant Supplement to the Prospectus. In this context, efficient portfolio management means the reduction of risks, including the risk of tracking error between the performance of a Sub-Fund and the performance of the Index tracked by the relevant Sub-Fund, the reduction of costs to the ICAV, the generation of additional capital or income for the ICAV and hedging against market movements, currency exchange or interest rate risks, subject to the general restrictions outlined in the "Investment Restrictions" section of the Prospectus. To the extent that a Sub-Fund uses FDI, there may be a risk that the volatility of the Sub-Fund's Net Asset Value may increase.

#### 17. Commitments and contingent liabilities

There were no significant commitments or contingent liabilities as at 31 December 2022 and 31 December 2021.

Notes to the Audited Financial Statements (continued) For the year ended 31 December 2022

#### 18. Securities Lending

The Sub-Fund may lend portions of its securities portfolio to third parties for the purpose of generating additional income or for reducing costs, to the maximum extent allowed by and within the limits set forth in the securities lending agency agreement.

A significant proportion of the income generated from the securities lending program is credited to participating Sub-Funds, with a portion of the income being paid to the securities lending agent of the ICAV for its role. Borrowers of securities lent by participating Sub-Funds are approved by the Management Company after appropriate assessment of such borrowers' status and financial standing. The Management Company waives the incremental income received from the portion of income generated from the securities lending program, for its oversight of the program; hence, 90% of any incremental income earned from the securities lending is accrued to the applicable Sub-Fund, whilst the remaining 10% income is paid to the securities lending agent which arranges the transaction. The net income earned from the securities lending program is detailed in the Statement of Comprehensive Income.

For each loan of securities the securities lending agent accepts cash and non-cash collateral on behalf of the ICAV participating in the Securities Lending Programme. Non-cash collateral is limited to securities issued or fully guaranteed by the United States government or issued and unconditionally guaranteed by any agencies thereof or issued or fully guaranteed by any of the G-10 sovereigns.

Until 31 January 2022, Brown Brothers Harriman & Co. was the securities lending agent of the ICAV. Effective 1 February 2022, the securities lending agent is J.P. Morgan SE - Luxembourg Branch (J.P. Morgan Bank Luxembourg S.A. until 22 January 2022).

Valuation of securities on loan and received collateral as at 31 December 2022 and 31 December 2021 is detailed below:

	Securities Len	t Market Value	Cash Co	ollateral*	Non-Cash Collateral		
	31 December 2022	31 December 2021	31 December 2022	31 December 2021	31 December 2022	31 December 2021	
	USD	USD	USD	USD	USD	USD	
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	2,682,082	-	-	-	2,783,820	-	
BetaBuilders US Equity UCITS ETF	16,139	7,231	6,299	-	10,567	7,594	
BetaBuilders US Small Cap Equity UCITS ETF1	45,820	-	-	-	48,255	-	
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	18,477,028	-	18,649,152	-	-	-	
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF	4,774,323	-	4,804,400	-	-	-	
BetaBuilders US Treasury Bond UCITS ETF	716,782	-	731,118	-	-	-	
Global Equity Multi-Factor UCITS ETF	1,333,775	280,913	-	-	1,474,038	295,016	
Global High Yield Corporate Bond Multi-Factor UCITS ETF	3,160,631	495,694	1,585,532	-	1,660,733	520,580	
USD Emerging Markets Sovereign Bond UCITS ETF	34,702,757	-	726,650	-	36,609,072	-	

Cash collateral may be reinvested into Reverse Repurchase Transactions with high quality government bonds as collateral. Income earned is recorded under the "Securities lending income" in the Statement of Comprehensive Income. <sup>1</sup>Sub-Fund launched on 9 August 2022.

Securities lending income earned by the ICAV during year ended 31 December 2022 and 31 December 2021 is detailed below:

		Lending Inc	ome (Gross)	Lending	Agent Fee	Lending I	ncome (Net)
	Base Currency	31 December 2022	31 December 2021	31 December 2022	31 December 2021	31 December 2022	31 December 2021
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	EUR	245	-	24	-	221	-
BetaBuilders US Equity UCITS ETF	USD	643	74	62	7	581	67
BetaBuilders US Small Cap Equity UCITS ETF <sup>1</sup>	USD	11	-	1	-	10	-
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	USD	103,119	-	10,312	-	92,807	-
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF <sup>2</sup>	USD	5,902	-	590	-	5,312	-
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF	USD	14	-	1	-	13	-
BetaBuilders US Treasury Bond UCITS ETF	USD	210	-	21	-	189	-
EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF	EUR	-	1,050	-	105	-	945
Global Equity Multi-Factor UCITS ETF	USD	2,807	112	280	11	2,527	101
Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD	15,950	1,948	1,593	195	14,357	1,753
US Equity Multi-Factor UCITS ETF <sup>3</sup>	USD	183	2	18	-	165	2
USD Emerging Markets Sovereign Bond UCITS ETF	USD	109,563	-	10,951	-	98,612	-
<sup>1</sup> Sub-Fund launched on 9 August 2022.							

<sup>&</sup>lt;sup>2</sup>Sub-Fund launched on 17 February 2021.

#### 19. Significant events during the year

a) Covid-19

The Board continues to monitor potential impacts of the Covid-19 pandemic to the Sub-Funds.

b) Sub-Fund launches

The following Sub-Funds were launched:

- JPMorgan ETFs (Ireland) ICAV AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF on 15 February 2022
- JPMorgan ETFs (Ireland) ICAV China A Research Enhanced Index Equity (ESG) UCITS ETF on 15 February 2022
- JPMorgan ETFs (Ireland) ICAV RMB Ultra-Short Income UCITS ETF on 1 March 2022
- JPMorgan ETFs (Ireland) ICAV BetaBuilders China Aggregate Bond UCITS ETF on 17 March 2022
- JPMorgan ETFs (Ireland) ICAV Japan Research Enhanced Index Equity (ESG) UCITS ETF on 29 March 2022
- JPMorgan ETFs (Ireland) ICAV Eurozone Research Enhanced Index Equity (ESG) UCITS ETF on 26 April 2022
- JPMorgan ETFs (Ireland) ICAV Climate Change Solutions UCITS ETF on 14 June 2022

<sup>&</sup>lt;sup>3</sup>Sub-Fund liquidated on 23 November 2022.

Notes to the Audited Financial Statements (continued)

For the year ended 31 December 2022

#### 19. Significant events during the year (continued)

b) Sub-Fund launches (continued)

- · JPMorgan ETFs (Ireland) ICAV UK Equity Core UCITS ETF on 14 June 2022
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders US Small Cap Equity UCITS ETF on 9 August 2022
- · JPMorgan ETFs (Ireland) ICAV Carbon Transition China Equity (CTB) UCITS ETF on 6 December 2022

#### c) Sub-Fund liquidations

JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF was liquidated on 23 November 2022.

The Financial Statements for this Sub-Fund have been prepared on a non-going concern basis of accounting which has no material adjustments to the published net asset values.

#### d) Sub-Fund name changes

Effective 1 March 2022, the following Sub-Funds changed their names due to uplift to Article 8 SFDR and inclusion of "(ESG)" in name:

- · JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond 1-5 yr Research Enhanced Index UCITS ETF to JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond Research Enhanced Index UCITS ETF to JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV USD Corporate Bond Research Enhanced Index UCITS ETF to JPMorgan ETFs (Ireland) ICAV USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF

Effective 30 September 2022, JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity UCITS ETF changed its name to JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF

#### e) Russia/Ukraine outbreak of war and sanctions

The continuous conflict between Russia and Ukraine and any related sanctions that have, and might be imposed, may result in the global economy being negatively impacted.

#### f) Change of securities lending agent

A securities lending agreement was signed on 1 February 2022 between JPMorgan ETFs (Ireland) ICAV and the new securities lending agent, J.P. Morgan SE - Luxembourg Branch (J.P. Morgan Bank Luxembourg S.A. until 22 January 2022). The former securities lending agent was Brown Brothers Harriman & Co.

#### a) Meraer

Effective 20 May 2022, JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF.

There were no other significant events during the year ended 31 December 2022 that had a material effect on the financial statements.

#### 20. Significant events after the year end

JPMorgan ETFs (Ireland) ICAV - Green Social Sustainable Bond UCITS ETF was launched on 23 February 2023.

There were no other significant events since the year end date.

#### 21. Approval of the financial statements

The Directors approved the financial statements on 20 April 2023.

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities					Inner Mongolia Yili Industrial Group Co.				
Australia					Ltd. 'A' Jade Bird Fire Co. Ltd. 'A'	CNH	10,900	48,838 19,823	0.24
ANZ Group Holdings Ltd.	AUD	7,856	126,050	0.63	JD.com, Inc. 'A'	CNH HKD	4,900 8,450	238,399	1.18
ASX Ltd. Aurizon Holdings Ltd.	AUD	331	15,268 44,203	0.08 0.22	Jiangsu Expressway Co. Ltd. 'H'	HKD	58,000	52,984	0.26
BHP Group Ltd.	AUD AUD	17,475 15,478	44,203	2.37	Jiangsu Hengli Hydraulic Co. Ltd. 'A'	CNH	6,500	59,327	0.29
Brambles Ltd.	AUD	11,507	94,188	0.47	Joinn Laboratories China Co. Ltd. 'H'	HKD	3,240	16,584	0.08
Coles Group Ltd.	AUD	8,519	96,594	0.48	Kingdee International Software Group Co. Ltd.	HKD	20,000	42,896	0.2
Commonwealth Bank of Australia	AUD	4,944	343,995	1.71	Kuaishou Technology 'B'	HKD	2,400	21,848	0.1
CSL Ltd. Dexus, REIT	AUD AUD	1,729 3,115	337,405 16,371	1.67 0.08	Kweichow Moutai Co. Ltd. 'A'	CNH	400	99,843	0.50
Endeavour Group Ltd.	AUD	3,924	17,084	0.08	Laobaixing Pharmacy Chain JSC 'A'	CNH	4,100	23,982	0.17
Fortescue Metals Group Ltd.	AUD	1,638	22,783	0.11	Longfor Group Holdings Ltd. LONGi Green Energy Technology Co. Ltd.	HKD	6,500	20,237	0.10
Goodman Group, REIT	AUD	9,046	106,496	0.53	'A'	CNH	6,200	37,869	0.19
GPT Group (The), REIT	AUD	6,525	18,585	0.09	Meituan 'B'	HKD	15,000	335,748	1.66
Insurance Australia Group Ltd. Macquarie Group Ltd.	AUD AUD	14,503 859	46,717 97,259	0.23 0.48	Midea Group Co. Ltd. 'A'	CNH	1,900	14,225	0.0
Medibank Pvt Ltd.	AUD	23,062	46,137	0.23	Montage Technology Co. Ltd. 'A' NetEase, Inc.	CNH HKD	3,358 9,100	30,382 133,499	0.19
Mirvac Group, REIT	AUD	27,029	39,042	0.19	NIO, Inc. 'A'	HKD	1,840	18,506	0.09
National Australia Bank Ltd.	AUD	6,681	136,193	0.68	NIO, Inc. ADR	USD	2,585	25,204	0.13
Newcrest Mining Ltd.	AUD	4,842	67,774	0.34	Oppein Home Group, Inc. 'A'	CNH	1,800	31,617	0.16
Northern Star Resources Ltd.	AUD AUD	5,258 8,444	38,902 76,904	0.19 0.38	Pharmaron Beijing Co. Ltd. 'H'	HKD	2,000	13,876	0.07
QBE Insurance Group Ltd. Ramsay Health Care Ltd.	AUD	8,444 364	15,971	0.38	PICC Property & Casualty Co. Ltd. 'H'	HKD	56,000	53,166	0.26
Rio Tinto Ltd.	AUD	1,600	126,309	0.63	Pinduoduo, Inc. ADR Ping An Bank Co. Ltd. 'A'	USD CNH	1,778 20,600	144,996 39,182	0.72
Santos Ltd.	AUD	19,229	93,107	0.46	Ping An Insurance Group Co. of China Ltd.	CIVII	20,000	37,102	0.13
South32 Ltd.	AUD	6,079	16,490	0.08	'H'	HKD	26,000	172,057	0.8
Telstra Group Ltd. Transurban Group	AUD	11,485	31,076 66,247	0.15 0.33	Postal Savings Bank of China Co. Ltd. 'H'	HKD	52,000	32,313	0.16
Wesfarmers Ltd.	AUD AUD	7,526 3,257	101,403	0.50	Qingdao Haier Biomedical Co. Ltd. 'A' Sany Heavy Industry Co. Ltd. 'A'	CNH	2,494 8,700	22,817 19,867	0.10
Westpac Banking Corp.	AUD	10,264	162,528	0.81	Shanghai Baosight Software Co. Ltd. 'A'	CNH CNH	6,480	41,958	0.10
Woodside Energy Group Ltd.	AUD	6,460	155,257	0.77	Shanghai Putailai New Energy Technology	CIVII	0,400	11,750	0.2.
Woolworths Group Ltd.	AUD	5,697	129,656	0.64	Co. Ltd. 'A' Shenzhen Mindray Bio-Medical Electronics	CNH	2,000	15,000	0.07
Australia total		_	3,164,945	15.69	Co. Ltd. 'A' Shenzhou International Group Holdings	CNH	1,100	50,235	0.25
China Alibaba Graya Halding Ltd	LIKE	47.000	F10 277	2.57	Ltd.	HKD	2,900	32,623	0.16
Alibaba Group Holding Ltd. Angel Yeast Co. Ltd. 'A'	HKD CNH	46,900 6,200	518,277 40,522	2.57 0.20	Silergy Corp.	TWD	4,000	56,807	0.28
ANTA Sports Products Ltd.	HKD	5,800	76,021	0.38	Skshu Paint Co. Ltd. 'A' StarPower Semiconductor Ltd. 'A'	CNH	2,000	32,904	0.16
Asymchem Laboratories Tianjin Co. Ltd.					Sunny Optical Technology Group Co. Ltd.	CNH HKD	600 2,900	28,557 34,499	0.14
'H'	HKD	1,380	20,298	0.10	Suzhou Maxwell Technologies Co. Ltd. 'A'	CNH	400	23,810	0.12
Baidu, Inc. 'A' Baoshan Iron & Steel Co. Ltd. 'A'	HKD	3,750 34,700	53,668 28,035	0.27 0.14	Tencent Holdings Ltd.	HKD	20,000	855,867	4.24
BOE Technology Group Co. Ltd. 'A'	CNH CNH	60,500	29,555	0.14	Tongwei Co. Ltd. 'A'	CNH	3,400	18,959	0.09
BYD Co. Ltd. 'H'	HKD	500	12,338	0.06	Trip.com Group Ltd. Wanhua Chemical Group Co. Ltd. 'A'	HKD	1,800	63,098	0.3
CGN Power Co. Ltd. 'H'	HKD	130,000	30,980	0.15	Wuliangye Yibin Co. Ltd. 'A'	CNH CNH	3,600 2,000	48,207 52,231	0.24 0.26
Chacha Food Co. Ltd. 'A'	CNH	6,000	43,360	0.22	WuXi AppTec Co. Ltd. 'H'	HKD	4,900	51,763	0.26
China Construction Bank Corp. 'H'	HKD	375,000	234,947	1.17	Wuxi Biologics Cayman, Inc.	HKD	15,000	115,023	0.57
China International Capital Corp. Ltd. 'H' China Life Insurance Co. Ltd. 'H'	HKD HKD	21,600 28,000	41,235 48,072	0.21 0.24	Xinyi Solar Holdings Ltd.	HKD	18,000	19,926	0.10
China Longyuan Power Group Corp. Ltd.	TIND	20,000	10,072	0.21	XPeng, Inc. 'A'	HKD	4,100	20,146	0.10
'H'	HKD	20,000	24,446	0.12	Yum China Holdings, Inc. Zhejiang Dingli Machinery Co. Ltd. 'A'	USD CNH	2,105 4,900	116,315 33,888	0.58 0.17
China Merchants Bank Co. Ltd. 'H'	HKD	22,000	123,037	0.61	Zhejiang Weixing New Building Materials	CIVIT	4,900	33,000	0.17
China Oilfield Services Ltd. 'H' China Pacific Insurance Group Co. Ltd. 'H'	HKD	26,000	31,613 19,596	0.16	Co. Ltd. 'A'	CNH	6,700	20,665	0.10
China Resources Mixc Lifestyle Services	HKD	8,800	19,590	0.10	Zhuzhou CRRC Times Electric Co. Ltd.	HKD	2,900	14,398	0.07
Ltd.	HKD	5,800	29,465	0.15	Zijin Mining Group Co. Ltd. 'H'	HKD	56,000	75,911	0.38
China Vanke Co. Ltd. 'H'	HKD	24,000	48,585	0.24	ZTO Express Cayman, Inc.	HKD	1,150	31,178	0.16
China Yangtze Power Co. Ltd. 'A' Chongging Brewery Co. Ltd. 'A'	CNH	16,700	50,688	0.25	China total			5,976,330	29.62
Chongqing Brewery Co. Ltd. A Chongqing Fuling Zhacai Group Co. Ltd.	CNH	1,100	20,252	0.10	Hona Kona		-		
A'	CNH	10,900	40,598	0.20	Hong Kong AIA Group Ltd.	HKD	40,000	444,846	2.21
CMOC Group Ltd. 'H'	HKD	39,000	17,989	0.09	BOC Hong Kong Holdings Ltd.	HKD	20,500	69,866	0.35
Country Garden Services Holdings Co. Ltd.		5,000	12,454	0.06	Budweiser Brewing Co. APAC Ltd.	HKD	15,200	47,811	0.24
CSPC Pharmaceutical Group Ltd. Dongguan Yiheda Automation Co. Ltd. 'A'	HKD CNH	38,000 1,900	39,923 18,053	0.20 0.09	China Gas Holdings Ltd.	HKD	17,200	25,034	0.12
ENN Energy Holdings Ltd.	HKD	6,000	84,254	0.09	China Overseas Land & Investment Ltd. China Resources Gas Group Ltd.	HKD	24,000	63,344	0.3
Foshan Haitian Flavouring & Food Co. Ltd.		0,000	01,231	0.12	China Resources Land Ltd.	HKD HKD	6,700 18,000	25,152 82,448	0.12
'A'	CNH	3,880	44,639	0.22	CK Asset Holdings Ltd.	HKD	7,500	46,173	0.23
Fuyao Glass Industry Group Co. Ltd. 'H'	HKD	14,000	58,745	0.29	CK Hutchison Holdings Ltd.	HKD	5,500	33,014	0.16
Ganfeng Lithium Group Co. Ltd. 'H' Guangzhou Automobile Group Co. Ltd. 'H'	HKD	1,920	14,342 47,175	0.07 0.23	CK Infrastructure Holdings Ltd.	HKD	3,000	15,702	0.08
Guangzhou Kingmed Diagnostics Group	HKD	70,000	47,170	0.23	CLP Holdings Ltd.	HKD	10,000	72,967	0.36
Co. Ltd. 'A'	CNH	1,800	20,344	0.10	HKT Trust & HKT Ltd. Hong Kong Exchanges & Clearing Ltd.	HKD HKD	20,000 4,700	24,523 203,056	0.12
H World Group Ltd.	HKD	16,100	69,413	0.34	Jardine Matheson Holdings Ltd.	USD	1,100	55,990	0.28
Haier Smart Home Co. Ltd. 'H'	HKD	18,800	64,072	0.32	Kunlun Energy Co. Ltd.	HKD	70,000	49,955	0.25
Hangzhou Tigermed Consulting Co. Ltd. 'H'	HKD	2,500	28,892	0.14	Link REIT	HKD	10,800	79,288	0.39
Han's Laser Technology Industry Group	HIND	۷,500	20,072	0.17	MTR Corp. Ltd.	HKD	6,500	34,436	0.17
Co. Ltd. 'A'	CNH	6,700	24,839	0.12	Sun Hung Kai Properties Ltd.	HKD	5,500	75,260	0.37
Hefei Meiya Optoelectronic Technology,	CNIII	4 E00	22 VE2	0.11	Techtronic Industries Co. Ltd. WH Group Ltd.	HKD HKD	9,000 57,000	100,436 33,156	0.50 0.16
Inc. 'A' Huatai Securities Co. Ltd. 'H'	CNH HKD	6,500 19,200	22,453 21,968	0.11 0.11	Xinyi Glass Holdings Ltd.	HKD	20,000	37,258	0.19
Huayu Automotive Systems Co. Ltd. 'A'	CNH	19,200	26,801	0.11			,		
Hundsun Technologies, Inc. 'A'	CNH	4,290	25,087	0.12	Hong Kong total			1,619,715	8.03
Industrial & Commercial Bank of China Ltd. 'H'	HKD	282,000	145,246	0.72	<i>India</i> ACC Ltd.	IND	1 110	33 0/1	0.16
					ACC LIU.	INR	1,118	33,041	0.16

### JPMorgan ETFs (Ireland) ICAV - AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Apollo Hospitals Enterprise Ltd.	INR	1,355	73,311	0.36	Hyundai Glovis Co. Ltd.	KRW	306	39,566	0.20
Ashok Leyland Ltd.	INR	9,460	16,426	0.08	Hyundai Mobis Co. Ltd.	KRW	281	44,556	0.22
Axis Bank Ltd. Bajaj Finance Ltd.	INR INR	8,052 201	90,929 15,979	0.45 0.08	Hyundai Motor Co. Kakao Corp.	KRW KRW	161 531	19,226 22,298	0.10 0.11
Bharat Petroleum Corp. Ltd.	INR	12,925	51,713	0.26	KB Financial Group, Inc.	KRW	1,985	76,135	0.38
Biocon Ltd.	INR	6,752	21,379	0.11	KIWOOM Securities Co. Ltd.	KRW	459	30,491	0.15
Britannia Industries Ltd. Dabur India Ltd.	INR INR	1,376 4,579	71,852 31,078	0.36 0.15	LG Chem Ltd. LG Energy Solution Ltd.	KRW KRW	275 39	130,486 13,432	0.65 0.07
Dr Reddy's Laboratories Ltd.	INR	4,579 391	20,015	0.10	LG H&H Co. Ltd.	KRW	96	54,814	0.07
Eicher Motors Ltd.	INR	825	32,190	0.16	Lotte Chemical Corp.	KRW	150	21,174	0.10
GAIL India Ltd.	INR	22,261	25,872	0.13	NAVER Corp.	KRW	683	95,874	0.47
Godrej Properties Ltd. HDFC Bank Ltd. ADR	INR USD	1,922 928	28,390 63,485	0.14 0.31	NCSoft Corp. POSCO Holdings, Inc.	KRW KRW	225 367	79,715 80,250	0.39 0.40
HDFC Life Insurance Co. Ltd.	INR	7,545	51,651	0.26	Samsung Biologics Co. Ltd.	KRW	48	31,165	0.15
Hindustan Unilever Ltd.	INR	4,065	125,984	0.62	Samsung Electronics Co. Ltd.	KRW	17,759	776,649	3.85
Housing Development Finance Corp. Ltd.	INR	6,896	220,225	1.09	Samsung Engineering Co. Ltd.	KRW	2,511	44,183	0.22
ICICI Bank Ltd. ICICI Prudential Life Insurance Co. Ltd.	INR INR	19,096 5,524	205,929 30,114	1.02 0.15	Samsung Fire & Marine Insurance Co. Ltd. Shinhan Financial Group Co. Ltd.	KRW KRW	400 3,046	63,266 84,792	0.31 0.42
Infosys Ltd.	INR	12,967	236,440	1.17	SK Hynix, Inc.	KRW	2,287	135,646	0.67
Kotak Mahindra Bank Ltd.	INR	3,720	82,107	0.41	SK Innovation Co. Ltd.	KRW	520	63,329	0.31
Maruti Suzuki India Ltd.	INR	844	85,828	0.43	SK Telecom Co. Ltd.	KRW	1,218	45,657	0.23
Oil & Natural Gas Corp. Ltd. Petronet LNG Ltd.	INR INR	13,010 16,155	23,117 42,082	0.11 0.21	SKC Co. Ltd. S-Oil Corp.	KRW KRW	481 689	33,664 45,443	0.17 0.22
Power Grid Corp. of India Ltd.	INR	17,851	46,165	0.23		IXIXVV			
Reliance Industries Ltd.	INR	9,567	294,532	1.46	South Korea total			2,251,642	11.16
Reliance Industries Ltd. GDR	USD	511	31,427	0.16	Taiwan		-		
Shriram Finance Ltd. Tata Consultancy Services Ltd.	INR INR	1,949 4,194	32,534 164,992	0.16 0.82	Accton Technology Corp.	TWD	5,000	38,148	0.19
Tata Consumer Products Ltd.	INR	3,411	31,830	0.16	Advantech Co. Ltd.	TWD	5,000	53,847	0.27
UltraTech Cement Ltd.	INR	659	55,441	0.27	ASE Technology Holding Co. Ltd. Chailease Holding Co. Ltd.	TWD TWD	20,000 11,300	61,102 79,781	0.30 0.40
UPL Ltd.	INR	7,092	61,482	0.30	Chunghwa Telecom Co. Ltd.	TWD	11,000	40,442	0.20
India total		=	2,397,540	11.88	CTBC Financial Holding Co. Ltd.	TWD	116,000	83,408	0.41
		-		11.00	Delta Electronics, Inc.	TWD	11,000	102,536	0.51
Indonesia Bank Central Asia Tbk. PT	IDR	248,800	136,646	0.68	E.Sun Financial Holding Co. Ltd. Eclat Textile Co. Ltd.	TWD TWD	62,841 4,000	49,172 64,486	0.24
Bank Rakyat Indonesia Persero Tbk. PT	IDR	350,000	111,065	0.55	eMemory Technology, Inc.	TWD	1,000	43,435	0.21
Indocement Tunggal Prakarsa Tbk. PT	IDR	35,700	22,703	0.11	Evergreen Marine Corp. Taiwan Ltd.	TWD	5,400	28,638	0.14
Semen Indonesia Persero Tbk. PT	IDR	105,600	44,601	0.22	Fubon Financial Holding Co. Ltd.	TWD	22,750	41,672	0.21
Telkom Indonesia Persero Tbk. PT	IDR	343,500	82,744	0.41	Giant Manufacturing Co. Ltd. Hon Hai Precision Industry Co. Ltd.	TWD TWD	6,000 20,000	39,140 65,006	0.19 0.32
Indonesia total			397,759	1.97	MediaTek, Inc.	TWD	4,000	81,339	0.40
Ireland		-			Nan Ya Plastics Corp.	TWD	28,000	64,681	0.32
James Hardie Industries plc CDI	AUD	1,843	32,996	0.16	Nien Made Enterprise Co. Ltd.	TWD	5,000	47,909	0.24
		-			Novatek Microelectronics Corp. President Chain Store Corp.	TWD TWD	5,000 4,000	51,325 35,399	0.25 0.18
Ireland total		_	32,996	0.16	Realtek Semiconductor Corp.	TWD	1,000	9,142	0.05
Macau Sands China Ltd.	HKD	20,800	69,023	0.34	Taiwan Mobile Co. Ltd. Taiwan Semiconductor Manufacturing Co. Ltd.	TWD TWD	5,000 77,000	15,406 1.123.603	0.08 5.57
Macau total			69,023	0.34	Uni-President Enterprises Corp.	TWD TWD	25,000	54,172 31,781	0.27 0.16
Malaysia CIMB Group Holdings Bhd.	MYR	37,200	48,981	0.24	Vanguard International Semiconductor		24,000		
Petronas Chemicals Group Bhd.	MYR	10,900	21,280	0.11	Corp. Wiwynn Corp.	TWD TWD	10,000 1,000	25,215 25,931	0.12 0.13
Public Bank Bhd.	MYR	59,400	58,254	0.29	Yuanta Financial Holding Co. Ltd.	TWD	67,710	47,805	0.24
Tenaga Nasional Bhd.	MYR	23,800 -	52,030	0.26	Taiwan total		-	2,404,521	11.92
Malaysia total		_	180,545	0.90	Thailand		-		
Philippines ACEN Corp.	PHP	2,830	387	0.00	Airports of Thailand PCL NVDR	THB	35,300	76,440	0.38
Ayala Corp.	PHP	2,830 1,510	18,832	0.00	Indorama Ventures PCL NVDR Minor International PCL NVDR	THB THB	20,400	24,002 21,696	0.12
Ayala Land, Inc.	PHP	34,000	18,791	0.09	PTT Exploration & Production PCL NVDR	THB	23,300 12,300	62,681	0.11
International Container Terminal Services, Inc.	PHP	6,140	22,036	0.11	PTT Global Chemical PCL NVDR	THB	20,900	28,512	0.14
Universal Robina Corp.	PHP	13,170	32,141	0.16	PTT PCL NVDR	THB	40,000	38,400	0.19
•					SCG Packaging PCL NVDR Siam Cement PCL (The) NVDR	THB THB	16,000 5,400	26,332 53,322	0.13 0.27
Philippines total Singapore		-	92,187	0.46	Thai Oil PCL NVDR Thai Union Group PCL NVDR	THB THB	32,606 46,000	52,955 22,445	0.26 0.11
BOC Aviation Ltd. CapitaLand Integrated Commercial Trust,	HKD	3,000	25,042	0.12	Thailand total	1110	-	406,785	2.02
REIT	SGD	50,900	77,420	0.38			-		
DBS Group Holdings Ltd.	SGD	7,500	189,681	0.94	United States BeiGene Ltd.	HKD	1,800	30,950	0.15
Oversea-Chinese Banking Corp. Ltd. Sea Ltd. ADR	SGD	4,900 917	44,499 47,711	0.22 0.24	Genpact Ltd.	USD	1,126	52,156	0.26
Singapore Exchange Ltd.	USD SGD	917	47,711 66,064	0.24	Parade Technologies Ltd.	TWD	1,000	25,150	0.13
Singapore Telecommunications Ltd.	SGD	10,600	20,312	0.10	United States total		-	108,256	0.54
United Overseas Bank Ltd. Wilmar International Ltd.	SGD SGD	4,900 13,800	112,161 42,906	0.56 0.21	Total investments in Equities		-	19,728,040	97.79
Singapore total		-	625,796	3.10			=		
South Korea BGF retail Co. Ltd.	KRW	166	27,634	0.14					
Hana Financial Group, Inc.	KRW	1,981	65,877	0.33					
Hankook Tire & Technology Co. Ltd. Hanon Systems	KRW KRW	1,242 7,191	30,596 46,006	0.15 0.23					
HL Mando Co. Ltd.	KRW	1,560	49,718	0.25					
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### JPMorgan ETFs (Ireland) ICAV - AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Total Assets

Financial Futures Contracts

Security Description	No. of Contracts	Currency	Underlying Exposure USD	Counterparty	Fair Value USD	% of Net Assets
Singapore SGX Nifty 50 Index, 25/01/2023	4	USD	144,925	Citibank NA	859	-
Singapore total					859	
Total unrealised gain on Financial Futures Contracts					859	
Total financial assets at fair value through profit or loss					Fair Value USD 19,728,899	% of Net Assets
Cash and margin cash Other assets and liabilities					404,623 41,403	2.01 0.20
Net asset value attributable to holders of redeemable participates as the par	pating shares				20,174,925	100.00
Analysis of total assets (Unaudited)						% of Total Assets
Transferable securities and money market instruments admitte Transferable securities and money market instruments dealt in Financial derivative instruments dealt in on a regulated market Other assets	on another regulated m					97.59 0.16 - 2.25

100.00

# JPMorgan ETFs (Ireland) ICAV - BetaBuilders China Aggregate Bond UCITS ETF

Schedule of Investments

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Bonds					China Development Bank 3.66%	C. I.V.	2000000	425 222	0.53
Corporate Debt Securities					01/03/2031 China Development Bank 3.41%	CNY	2,900,000	435,332	0.52
China China Everbright Bank Co. Ltd. 2.47%					07/06/2031 China Development Bank 3.12%	CNY	3,000,000	442,933	0.53
20/10/2025 Huaxia Bank Co. Ltd. 3.03% 10/11/2024	CNY CNY	10,000,000 10,000,000	1,422,932 1,442,338	1.69 1.71	13/09/2031 China Development Bank 3.90%	CNY	2,500,000	361,401	0.43
Shanghai Pudong Development Bank Co. Ltd. 2.97% 06/12/2024	CNV	10,000,000	1,441,619	1.71	03/08/2040 China Development Bank 3.49%	CNY	9,800,000	1,508,422	1.79
China total		10,000,000	4,306,889	5.11	08/11/2041 China Government Bond 3.29%	CNY	3,700,000	541,931	0.64
Total investments in Corporate Debt Seco	ritios				18/10/2023 China Government Bond 2.56%	CNY	500,000	72,638	0.09
Total investments in corporate Debt Sect	urities	:	4,306,889	5.11	21/10/2023 China Government Bond 2.84%	CNY	4,100,000	591,388	0.70
Government Debt Securities					08/04/2024	CNY	9,000,000	1,304,280	1.55
China Agricultural Development Bank of China					China Government Bond 3.19% 11/04/2024	CNY	22,700,000	3,305,553	3.92
3.06% 05/08/2023 Agricultural Development Bank of China	CNY	3,400,000	491,114	0.58	China Government Bond 2.47% 02/09/2024	CNY	10,000,000	1,441,676	1.71
2.37% 23/06/2024 Agricultural Development Bank of China	CNY	2,500,000	359,239	0.43	China Government Bond 2.94% 17/10/2024	CNY	2,000,000	290,901	0.34
2.61% 09/03/2025 Agricultural Development Bank of China	CNY	4,300,000	619,172	0.73	China Government Bond 3.90% 21/12/2024	CNY	1,900,000	282,774	0.34
2.46% 27/07/2025 Agricultural Development Bank of China	CNY	7,000,000	1,003,424	1.19	China Government Bond 3.02% 22/10/2025	CNY	12,500,000	1,826,208	2.17
3.45% 23/09/2025 Agricultural Development Bank of China	CNY	12,000,000	1,765,588	2.09	China Government Bond 3.03% 11/03/2026	CNY	10,000,000	1,462,966	1.74
3.35% 24/03/2026	CNY	13,800,000	2,024,749	2.40	China Government Bond 2.69% 12/08/2026	CNY	7,800,000	1,126,258	1.34
Agricultural Development Bank of China 2.99% 11/08/2026	CNY	4,000,000	579,628	0.69	China Government Bond 2.37% 20/01/2027	CNY		2,137,463	2.54
Agricultural Development Bank of China 2.74% 23/02/2027	CNY	4,300,000	616,315	0.73	China Government Bond 2.85%		15,000,000		
Agricultural Development Bank of China 2.50% 24/08/2027	CNY	4,200,000	595,439	0.71	04/06/2027 China Government Bond 2.50%		12,000,000	1,741,283	2.07
Agricultural Development Bank of China 3.19% 12/08/2028	CNY	3,000,000	436,987	0.52	25/07/2027 China Government Bond 2.44%	CNY	4,100,000	586,050	0.70
Agricultural Development Bank of China 3.75% 25/01/2029	CNY	1,200,000	180,080	0.21	15/10/2027 China Government Bond 3.28%	CNY	1,600,000	228,311	0.27
Agricultural Development Bank of China 2.83% 11/08/2029	CNY	9,400,000	1,337,489	1.59	03/12/2027 China Government Bond 3.85%	CNY	10,000,000	1,481,479	1.76
Agricultural Development Bank of China 3.79% 26/10/2030	CNY		1,058,232	1.26	01/02/2028 China Government Bond 2.91%	CNY	300,000	46,099	0.05
Agricultural Development Bank of China		7,000,000			14/10/2028 China Government Bond 2.75%	CNY	1,000,000	145,379	0.17
3.06% 06/06/2032 Agricultural Development Bank of China	CNY	2,400,000	345,091	0.41	15/06/2029	CNY	5,000,000	716,724	0.85
2.97% 14/10/2032 Agricultural Development Bank of China	CNY	700,000	99,914	0.12	China Government Bond 2.62% 25/09/2029	CNY	6,500,000	924,317	1.10
3.95% 26/02/2036 China Development Bank 1.86%	CNY	300,000	46,639	0.06	China Government Bond 2.68% 21/05/2030	CNY	10,400,000	1,481,136	1.76
09/04/2023 China Development Bank 3.00%	CNY	500,000	71,882	0.08	China Government Bond 3.27% 19/11/2030	CNY	7,300,000	1,086,195	1.29
07/08/2023 China Development Bank 3.30%	CNY	1,700,000	245,731	0.29	China Government Bond 3.02% 27/05/2031	CNY	5,100,000	742,525	0.88
01/02/2024 China Development Bank 3.00%	CNY	1,100,000	159,991	0.19	China Government Bond 2.89% 18/11/2031		10,000,000	1,441,029	1.71
17/06/2024	CNY	3,900,000	565,300	0.67	China Government Bond 2.75% 17/02/2032		23,600,000	3.360.293	3.99
China Development Bank 3.42% 02/07/2024	CNY	5,000,000	729,239	0.87	China Government Bond 2.76%			-,,	
China Development Bank 2.73% 11/11/2024	CNY	5,800,000	838,550	0.99	15/05/2032 China Government Bond 2.69%	CNY	6,800,000	968,660	1.15
China Development Bank 3.23% 10/01/2025	CNY	2,500,000	364,853	0.43	15/08/2032 China Government Bond 2.60%	CNY	6,400,000	906,101	1.07
China Development Bank 2.89% 22/06/2025	CNY	11,000,000	1,594,689	1.89	01/09/2032 China Government Bond 2.80%	CNY	700,000	98,426	0.12
China Development Bank 3.34% 14/07/2025	CNY	11,500,000	1,686,249	2.00	15/11/2032 China Government Bond 3.86%	CNY	900,000	129,048	0.15
China Development Bank 4.15% 26/10/2025	CNY	1,200,000	179,704	0.21	22/07/2049 China Government Bond 3.39%	CNY	6,500,000	1,032,733	1.23
China Development Bank 3.30% 03/03/2026	CNY	5,000,000	733,849	0.87	16/03/2050 China Government Bond 3.81%	CNY	10,000,000	1,459,456	1.73
China Development Bank 2.83%					14/09/2050 China Government Bond 3.72%	CNY	14,100,000	2,227,478	2.64
10/09/2026 China Development Bank 2.69%	CNY	5,700,000	823,535	0.98	12/04/2051	CNY	5,800,000	905,647	1.07
16/06/2027 China Development Bank 3.40%	CNY	6,400,000	918,327	1.09	China Government Bond 3.53% 18/10/2051	CNY	12,300,000	1,859,588	2.21
08/01/2028 China Development Bank 4.04%	CNY	5,000,000	735,683	0.87	China Government Bond 3.32% 15/04/2052	CNY	1,500,000	220,179	0.26
06/07/2028 China Development Bank 3.48%	CNY	1,800,000	273,556	0.32	China Government Bond 3.12% 25/10/2052	CNY	2,100,000	297,852	0.35
08/01/2029 China Development Bank 2.99%	CNY	1,200,000	177,700	0.21	Export-Import Bank of China (The) 2.17% 07/04/2023	CNY	1,000,000	143,916	0.17
01/03/2029 China Development Bank 3.65%	CNY	7,000,000	1,007,985	1.20	Export-Import Bank of China (The) 3.28% 11/02/2024	CNY	4,000,000	580,819	0.69
21/05/2029 China Development Bank 3.45%	CNY	8,200,000	1,225,771	1.45	Export-Import Bank of China (The) 3.43% 23/10/2025		10,000,000	1,471,669	1.75
20/09/2029	CNY	600,000	88,759	0.11	Export-Import Bank of China (The) 3.22% 14/05/2026	CNY	15,000,000	2,189,702	2.60
China Development Bank 3.07% 10/03/2030	CNY	10,000,000	1,444,639	1.71	Export-Import Bank of China (The) 2.61%				
China Development Bank 3.09% 18/06/2030	CNY	11,000,000	1,590,654	1.89	27/01/2027 Export-Import Bank of China (The) 2.82%	CNY	2,000,000	285,401	0.34
China Development Bank 3.70% 20/10/2030	CNY	16,400,000	2,466,547	2.93	1//06/202/	CNY	12,100,000	1,/39,990	2.06
18/06/2030 China Development Bank 3.70%						CNY	12,100,000	1,739,990	

# JPMorgan ETFs (Ireland) ICAV - BetaBuilders China Aggregate Bond UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Export-Import Bank of China (The) 3.86%			F74 200	0.40
20/05/2029 Export-Import Bank of China (The) 3.74%	CNY	3,800,000	574,398	0.68
16/11/2030 Export-Import Bank of China (The) 3.38%	CNY	2,000,000	301,397	0.36
16/07/2031	CNY	2,000,000	294,360	0.35
Export-Import Bank of China (The) 3.18% 11/03/2032	CNY	2,800,000	406,424	0.48
Export-Import Bank of China (The) 2.90% 19/08/2032	CNY	800,000	113,486	0.13
China total			78,801,967	93.51
Total investments in Government Debt Se	ecurities		78,801,967	93.51
Total Bonds		:	83,108,856	98.62

# JPMorgan ETFs (Ireland) ICAV - BetaBuilders China Aggregate Bond UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class EUR Hedged	l (acc)*						
CNY	146,000,154	EUR	19,667,824	03/01/2023	Bank of America Merrill Lynch	44,037	0.05
CNY	462,312	EUR	62,362	03/01/2023	BNP Paribas	50	-
EUR	86,341	CNY	634,745	03/01/2023	Bank of America Merrill Lynch	697	-
EUR	93,529	CNY	687,104	03/01/2023	Barclays	825	-
EUR	108,732	CNY	801,957	03/01/2023	Barclays	503	-
EUR	94,026	CNY	693,177	03/01/2023		481	-
Class USD Hedged	l (dist)*						
CNY	760,994	USD	107,525	03/01/2023	BNP Paribas	1,944	0.01
CNY	95,830,186	USD	13,729,528	03/01/2023	Goldman Sachs	55,616	0.07
CNY	680,297	USD	96,488	03/01/2023	Goldman Sachs	1,372	-
CNY	314,176	USD	45,063		Goldman Sachs	132	-
CNY	364,054	USD	52,286	03/01/2023	Goldman Sachs	83	-
USD	59,990	CNY	414,105	02/02/2023	BNP Paribas	278	-
USD	65,222	CNY	451,368	03/01/2023	State Street	293	
Total unrealised g	gain on Forward Currency Contracts					106,311	0.13
Class EUR Hedged	l (acc)*						
CNY	981,651	EUR	132,939	03/01/2023	Barclays	(450)	-
CNY	1,346,856	EUR	183,157		BNP Paribas	(1,427)	-
CNY	981.067	EUR	132,779		Goldman Sachs	(363)	-
CNY	525,417	EUR	71,779	03/01/2023	Goldman Sachs	(907)	=
EUR	71,085	CNH	527,994		BNP Paribas	(323)	-
EUR	97,573	CNY	723,241		Bank of America Merrill Lynch	(64)	-
EUR	19,470,089	CNY	144,679,931		Bank of America Merrill Lynch	(64,829)	(0.08)
EUR	19,667,824	CNY	145,975,707	02/02/2023	Bank of America Merrill Lynch	(46,735)	(0.06)
EUR	76,348	CNY	576,771	03/01/2023	Citibank NA	(1,612)	-
EUR	167,242	CNY	1,246,425	03/01/2023	Goldman Sachs	(1,084)	-
EUR	56,959	CNY	422,698	03/01/2023	Standard Chartered	(109)	-
Class USD Hedged	l (dist)*						
CNY	2,339,956	USD	337,923	03/01/2023	Goldman Sachs	(1,321)	-
USD	50,944	CNH	354,924	02/02/2023	State Street	(299)	-
USD	75,371	CNY	530,886	03/01/2023	Barclays	(997)	-
USD	42,327	CNY	295,275	03/01/2023	BNP Paribas	(149)	-
USD	64,604	CNY	459,881	03/01/2023	BNP Paribas	(1,549)	-
USD	56,989	CNY	410,452	03/01/2023	Citibank NA	(2,055)	(0.01)
USD	66,725	CNY	465,088	03/01/2023	Goldman Sachs	(178)	-
USD	13,927,955	CNY	99,648,486		Goldman Sachs	(406,451)	(0.48)
USD	13,729,528	CNY	95,615,113	02/02/2023	Goldman Sachs	(57,832)	(0.07)
USD	69,620	CNY	485,595	03/01/2023	Standard Chartered	(233)	
Total unrealised I	oss on Forward Currency Contracts					(588,967)	(0.70)

 $<sup>\</sup>ensuremath{^{*}\text{Contracts}}$  entered into for share class currency hedging purpose.

	Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash Other assets and liabilities Net asset value attributable to holders of redeemable participating shares	83,215,167 (588,967) 210,075 1,436,326 84,272,601	98.75 (0.70) 0.25 1.70 100.00
Analysis of total assets (Unaudited)		% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing OTC financial derivative instruments Other assets  Total Assets		96.19 0.13 3.68 100.00

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Bonds					Ireland (31 December 2021: 1.24%)				
Government Debt Securities (31 Decemb	er 2021: 99.3	5%)			Ireland Government Bond 3.40% 18/03/2024	EUR	307,000	309,410	0.56
Austria (31 December 2021: 3.91%) Austria Government Bond 0.00%					Ireland Government Bond 5.40% 13/03/2025	EUR	537,000	566,910	1.02
15/07/2024 Austria Government Bond 1.65%	EUR	232,000	222,483	0.40	Ireland total				
21/10/2024	EUR	940,000	921,397	1.66	Italy (31 December 2021: 24.90%)			876,320	1.58
Austria Government Bond 0.00% 20/04/2025	EUR	220,000	206,444	0.37	Italy Buoni Poliennali Del Tesoro 0.00%	FUD	072.000	0.44 221	1.50
Austria Government Bond 1.20% 20/10/2025	EUR	538,000	517,013	0.93	15/01/2024 Italy Buoni Poliennali Del Tesoro 4.50%	EUR	873,000	846,321	1.52
Austria total			1,867,337	3.36	01/03/2024 Italy Buoni Poliennali Del Tesoro 0.00%	EUR	930,000	944,797	1.70
Belgium (31 December 2021: 4.06%)					15/04/2024 Italy Buoni Poliennali Del Tesoro 1.75%	EUR	618,000	594,289	1.07
Belgium Government Bond 0.20% 22/10/2023	EUR	84,000	82,478	0.15	01/07/2024 Italy Buoni Poliennali Del Tesoro 3.75%	EUR	1,227,000	1,201,047	2.16
Belgium Government Bond 2.60% 22/06/2024	EUR	483,000	481,846	0.87	01/09/2024 Italy Buoni Poliennali Del Tesoro 1.45%	EUR	579,000	583,930	1.05
Belgium Government Bond 0.50% 22/10/2024	EUR	556,000	534,527	0.96	15/11/2024 Italy Buoni Poliennali Del Tesoro 2.50%	EUR	1,141,000	1,105,408	1.99
Belgium Government Bond 0.80% 22/06/2025			1,051,566	1.89	01/12/2024 Italy Buoni Poliennali Del Tesoro 0.00%	EUR	888,000	876,708	1.58
	EUR	1,101,000			15/12/2024	EUR	1,031,000	969,574	1.75
Belgium total			2,150,417	3.87	Italy Buoni Poliennali Del Tesoro 0.35% 01/02/2025	EUR	1,130,000	1,062,501	1.91
Finland (31 December 2021: 1.56%) Finland Government Bond 0.00%	FUD		70 5 45	0.14	Italy Buoni Poliennali Del Tesoro 1.45% 15/05/2025	EUR	1,189,000	1,138,078	2.05
15/09/2023 Finland Government Bond 2.00%	EUR	80,000	78,545	0.14	Italy Buoni Poliennali Del Tesoro 1.50% 01/06/2025	EUR	644,000	616,005	1.11
15/04/2024 Finland Government Bond 0.00%	EUR	98,000	97,157	0.17	Italy Buoni Poliennali Del Tesoro 1.85% 01/07/2025	EUR	1,046,000	1,005,416	1.81
15/09/2024 Finland Government Bond 4.00%	EUR	116,000	110,856	0.20	Italy Buoni Poliennali Del Tesoro 1.20% 15/08/2025	EUR	453,000	426,810	0.77
04/07/2025 Finland Government Bond 0.88%	EUR	355,000	366,424	0.66	Italy Buoni Poliennali Del Tesoro 2.50% 15/11/2025	EUR	739,000	719,928	1.30
15/09/2025	EUR	213,000	202,910	0.37	Italy Buoni Poliennali Del Tesoro 2.00% 01/12/2025	EUR	1,034,000	990,756	1.79
Finland total			855,892	1.54	Italy total	EUR	1,034,000		
France (31 December 2021: 24.67%) France Government Bond OAT 0.00%					Netherlands (31 December 2021: 4.04%)			13,081,568	23.56
25/02/2024 France Government Bond OAT 0.00%	EUR	347,000	336,097	0.61	Netherlands Government Bond 2.00% 15/07/2024	EUR	779,000	770,836	1.39
25/03/2024 France Government Bond OAT 2.25%	EUR	3,032,000	2,929,640	5.28	Netherlands Government Bond 0.25%				1.43
25/05/2024 France Government Bond OAT 1.75%	EUR	2,077,000	2,060,980	3.71	15/07/2025	EUR	843,000	793,679 ————————————————————————————————————	
25/11/2024	EUR	11,000	10,788	0.02	Netherlands total			1,564,515	2.82
France Government Bond OAT 0.00% 25/02/2025	EUR	1,599,000	1,504,179	2.71	Portugal (31 December 2021: 1.88%) Portugal Obrigacoes do Tesouro OT 5.65%			2/0.270	0.66
France Government Bond OAT 0.00% 25/03/2025	EUR	2,844,000	2,672,848	4.81	15/02/2024 Portugal Obrigacoes do Tesouro OT 2.88%		357,000	368,270	0.66
France Government Bond OAT 0.50% 25/05/2025	EUR	2,434,000	2,306,093	4.15	15/10/2025	EUR	620,000	619,880	1.12
France Government Bond OAT 6.00% 25/10/2025	EUR	974,000	1,057,141	1.90	Portugal total			988,150	1.78
France Government Bond OAT 1.00% 25/11/2025	EUR	1,632,000	1,553,485	2.80	Spain (31 December 2021: 13.30%) Spain Government Bond 3.80%				
France total			14,431,251	25.99	30/04/2024 Spain Government Bond 0.00%	EUR	847,000	857,697	1.54
Germany (31 December 2021: 19.79%)					31/05/2024 Spain Government Bond 0.25%	EUR	1,526,000	1,466,068	2.64
Bundesobligation 0.00% 05/04/2024 Bundesobligation 0.00% 18/10/2024	EUR EUR	1,231,000 1,432,000	1,193,288 1,368,892	2.15 2.46	30/07/2024 Spain Government Bond 2.75%	EUR	124,000	119,114	0.21
Bundesobligation 0.00% 11/04/2025	EUR	1,107,000	1,045,407	1.88	31/10/2024 Spain Government Bond 0.00%	EUR	317,000	316,090	0.57
Bundesobligation 0.00% 10/10/2025 Bundesobligation 0.00% 10/10/2025	EUR EUR	182,000 998,000	170,499 931,453	0.31 1.68	31/01/2025	EUR	1,719,000	1,619,304	2.92
Bundesrepublik Deutschland Bundesanleihe 1.75% 15/02/2024	EUR	643,000	637,975	1.15	Spain Government Bond 1.60% 30/04/2025	EUR	1,309,000	1,271,686	2.29
Bundesrepublik Deutschland Bundesanleihe 1.50% 15/05/2024	EUR	1,374,000	1,355,459	2.44	Spain Government Bond 0.00% 31/05/2025	EUR	809,000	753,108	1.36
Bundesrepublik Deutschland Bundesanleihe 1.00% 15/08/2024	EUR	512,000	499,534	0.90	Spain Government Bond 4.65% 30/07/2025	EUR	1,047,000	1,091,549	1.97
Bundesanleihe 1.00% 15/08/2024 Bundesrepublik Deutschland Bundesanleihe 0.50% 15/02/2025	EUR	1,326,000	1,270,190	2.29	Spain Government Bond 2.15% 31/10/2025	EUR	806,000	790,404	1.42
Bundesanleihe 0.30% 15/02/2025 Bundesrepublik Deutschland Bundesanleihe 1.00% 15/08/2025				2.29	Spain total			8,285,020	14.92
Bundesschatzanweisungen 0.00%	EUR	1,356,000	1,303,469		Total investments in Government Debt Se	curities			
15/03/2024 Bundesschatzanweisungen 0.20%	EUR	1,047,000	1,016,522	1.83			:	55,208,241	99.43
14/06/2024 Bundesschatzanweisungen 2.20%	EUR	156,000	150,700	0.27	Total Bonds		:	55,208,241	99.43
12/12/2024	EUR	166,000	164,383	0.30					
Germany total			11,107,771	20.01					

# JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF

Schedule of Investments (continued)

	Fair Value EUR	% of Net Assets
Total financial assets at fair value through profit or loss Cash Other assets and liabilities	55,208,241 42,862 276,086	99.43 0.08 0.49
Net asset value attributable to holders of redeemable participating shares	55,527,189	100.00
Analysis of total assets (Unaudited)		% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Other assets		90.32 5.12 4.56
Total Assets		100.00

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Bonds					Belgium Government Bond 2.25% 22/06/2057	FUD	37,000	20,607	0.13
Government Debt Securities (31 Decen	nber 2021: 99.34	1%)			Belgium Government Bond 0.65%	EUR	26,000		
Austria (31 December 2021: 3.62%) Austria Government Bond 0.00%					22/06/2071	EUR	24,000 —	10,179	0.07
15/07/2024 Austria Government Bond 1.65%	EUR	50,000	47,949	0.31	Belgium total		_	857,760 ————————————————————————————————————	5.57
21/10/2024 Austria Government Bond 0.00%	EUR	8,000	7,842	0.05	Finland (31 December 2021: 1.54%) Finland Government Bond 2.00%			0.014	0.07
20/04/2025 Austria Government Bond 1.20%	EUR	22,000	20,644	0.13	15/04/2024 Finland Government Bond 0.00%	EUR	10,000	9,914	0.07
20/10/2025 Austria Government Bond 4.85%	EUR	37,000	35,557	0.23	15/09/2024 Finland Government Bond 0.88%	EUR	13,000	12,423	0.08
15/03/2026 Austria Government Bond 2.00%	EUR	33,000	35,108	0.23	15/09/2025 Finland Government Bond 0.50%	EUR	31,000	29,532	0.19
15/07/2026	EUR	23,000	22,393	0.15	15/04/2026 Finland Government Bond 0.00%	EUR	10,000	9,325	0.06
Austria Government Bond 0.75% 20/10/2026	EUR	57,000	53,028	0.35	15/09/2026 Finland Government Bond 0.50%	EUR	25,000	22,546	0.15
Austria Government Bond 0.00% 20/10/2028	EUR	11,000	9,270	0.06	15/09/2027 Finland Government Bond 0.50%	EUR	21,000	18,835	0.12
Austria Government Bond 0.50% 20/02/2029	EUR	79,000	68,026	0.44	15/09/2028	EUR	13,000	11,367	0.07
Austria Government Bond 0.00% 20/02/2030	EUR	59,000	47,483	0.31	Finland Government Bond 0.50% 15/09/2029	EUR	46,000	39,131	0.25
Austria Government Bond 0.00% 20/02/2031	EUR	31,000	24,166	0.16	Finland Government Bond 0.00% 15/09/2030	EUR	10,000	7,930	0.05
Austria Government Bond 0.90% 20/02/2032	EUR	17,000	13,990	0.09	Finland Government Bond 1.50% 15/09/2032	EUR	10,000	8,679	0.06
Austria Government Bond 2.40% 23/05/2034			9,278	0.06	Finland Government Bond 1.13% 15/04/2034	EUR	15,000	12,165	0.08
Austria Government Bond 0.25%	EUR	10,000			Finland Government Bond 0.13% 15/04/2036	EUR	26,000	17,504	0.11
20/10/2036 Austria Government Bond 4.15%	EUR	36,000	24,328	0.16	Finland Government Bond 0.25% 15/09/2040	EUR	15,000	9,082	0.06
15/03/2037 Austria Government Bond 0.00%	EUR	29,000	31,973	0.21	Finland Government Bond 0.50%				
20/10/2040 Austria Government Bond 3.15%	EUR	31,000	17,443	0.11	15/04/2043 Finland Government Bond 1.38%	EUR	2,000	1,217	0.01
20/06/2044 Austria Government Bond 1.50%	EUR	11,000	10,845	0.07	15/04/2047	EUR	36,000 _	26,185	0.17
20/02/2047 Austria Government Bond 0.75%	EUR	17,000	12,389	0.08	Finland total		_	235,835	1.53
20/03/2051	EUR	47,000	26,636	0.17	France (31 December 2021: 25.67%) France Government Bond OAT 0.00%				
Austria Government Bond 2.10% 20/09/2117	EUR	35,000	24,948	0.16	25/02/2024 France Government Bond OAT 0.00%	EUR	155,000	150,130	0.97
Austria total		_	543,296	3.53	25/03/2024 France Government Bond OAT 2.25%	EUR	27,000	26,088	0.17
Belgium (31 December 2021: 5.78%)		-			25/05/2024 France Government Bond OAT 1.75%	EUR	117,000	116,098	0.75
Belgium Government Bond 2.60% 22/06/2024	EUR	27,000	26,935	0.18	25/11/2024 France Government Bond OAT 0.00%	EUR	24,000	23,538	0.15
Belgium Government Bond 0.50% 22/10/2024	EUR	41,000	39,417	0.26	25/02/2025	EUR	36,000	33,865	0.22
Belgium Government Bond 0.80% 22/06/2025	EUR	73,000	69,722	0.45	France Government Bond OAT 0.00% 25/03/2025	EUR	224,000	210,520	1.37
Belgium Government Bond 4.50% 28/03/2026	EUR	46,000	48,493	0.31	France Government Bond OAT 0.50% 25/05/2025	EUR	173,000	163,909	1.06
Belgium Government Bond 1.00% 22/06/2026	EUR	6,000	5,664	0.04	France Government Bond OAT 6.00% 25/10/2025	EUR	83,000	90,085	0.59
Belgium Government Bond 0.80% 22/06/2027	EUR	32,000	29,268	0.19	France Government Bond OAT 1.00% 25/11/2025	EUR	29,000	27,605	0.18
Belgium Government Bond 0.00% 22/10/2027			66,323	0.43	France Government Bond OAT 0.00% 25/02/2026	EUR	7,000	6,417	0.04
Belgium Government Bond 5.50%	EUR	76,000			France Government Bond OAT 3.50% 25/04/2026	EUR	257,000	262,563	1.70
28/03/2028 Belgium Government Bond 0.80%	EUR	13,000	14,688	0.10	France Government Bond OAT 0.50% 25/05/2026	EUR		43,538	0.28
22/06/2028 Belgium Government Bond 0.90%	EUR	37,000	33,319	0.22	France Government Bond OAT 0.25%		47,000		
22/06/2029 Belgium Government Bond 1.00%	EUR	73,000	64,441	0.42	25/11/2026 France Government Bond OAT 0.00%	EUR	145,000	131,498	0.85
22/06/2031 Belgium Government Bond 4.00%	EUR	106,000	89,822	0.58	25/02/2027 France Government Bond OAT 1.00%	EUR	92,000	82,024	0.53
28/03/2032 Belgium Government Bond 0.35%	EUR	16,000	17,023	0.11	25/05/2027 France Government Bond OAT 2.75%	EUR	154,000	142,465	0.92
22/06/2032	EUR	28,000	21,564	0.14	25/10/2027 France Government Bond OAT 0.75%	EUR	113,000	112,705	0.73
Belgium Government Bond 1.25% 22/04/2033	EUR	60,000	50,020	0.32	25/02/2028 France Government Bond OAT 0.75%	EUR	47,000	42,333	0.28
Belgium Government Bond 3.00% 22/06/2034	EUR	73,000	70,881	0.46	25/05/2028	EUR	198,000	177,279	1.15
Belgium Government Bond 1.90% 22/06/2038	EUR	15,000	12,309	0.08	France Government Bond OAT 0.75% 25/11/2028	EUR	6,000	5,324	0.03
Belgium Government Bond 0.40% 22/06/2040	EUR	17,000	10,271	0.07	France Government Bond OAT 5.50% 25/04/2029	EUR	114,000	131,113	0.85
Belgium Government Bond 4.25% 28/03/2041	EUR	57,000	62,885	0.41	France Government Bond OAT 0.50% 25/05/2029	EUR	203,000	175,023	1.14
Belgium Government Bond 3.75% 22/06/2045	EUR	25,000	26,247	0.17	France Government Bond OAT 0.00% 25/11/2029	EUR	179,000	147,137	0.96
Belgium Government Bond 1.60%				0.17	France Government Bond OAT 2.50% 25/05/2030	EUR	63,000	61,403	0.40
22/06/2047 Belgium Government Bond 1.70%	EUR	51,000	35,892		France Government Bond OAT 0.00% 25/11/2030	EUR	171,000	135,964	0.88
22/06/2050 Belgium Government Bond 1.40%	EUR	16,000	11,145	0.07	France Government Bond OAT 1.50%				
22/06/2053	EUR	33,000	20,645	0.13	25/05/2031 France Government Bond OAT 0.00%	EUR	188,000	168,502	1.09
					25/11/2031	EUR	104,000	79,937	0.52

# JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
France Government Bond OAT 0.00% 25/05/2032	EUR	113,000	85,056	0.55	Bundesrepublik Deutschland Bundesanleihe 0.00% 15/02/2031	EUR	55,000	44,952	0.29
France Government Bond OAT 5.75% 25/10/2032	EUR	23,000	28,120	0.18	Bundesrepublik Deutschland Bundesanleihe 0.00% 15/08/2031	EUR	11,000	8,889	0.06
France Government Bond OAT 2.00%					Bundesrepublik Deutschland				0.24
25/11/2032 France Government Bond OAT 1.25%	EUR	48,000	43,562	0.28	Bundesanleihe 0.00% 15/02/2032 Bundesrepublik Deutschland	EUR	46,000	36,603	
25/05/2034 France Government Bond OAT 4.75%	EUR	213,000	173,127	1.12	Bundesanleihe 1.70% 15/08/2032 Bundesrepublik Deutschland	EUR	21,000	19,479	0.13
25/04/2035 France Government Bond OAT 1.25%	EUR	49,000	56,142	0.36	Bundesanleihe 0.00% 15/05/2035 Bundesrepublik Deutschland	EUR	71,000	51,437	0.33
25/05/2036	EUR	104,000	80,901	0.53	Bundesanleihe 0.00% 15/05/2036	EUR	25,000	17,637	0.11
France Government Bond OAT 4.00% 25/10/2038	EUR	39,000	42,106	0.27	Bundesrepublik Deutschland Bundesanleihe 4.00% 04/01/2037	EUR	100,000	115,913	0.75
France Government Bond OAT 1.75% 25/06/2039	EUR	79,000	64,107	0.42	Bundesrepublik Deutschland Bundesanleihe 1.00% 15/05/2038	EUR	31,000	24,594	0.16
France Government Bond OAT 0.50%			60,938	0.40	Bundesrepublik Deutschland Bundesanleihe 4.25% 04/07/2039				1.81
25/05/2040 France Government Bond OAT 4.50%	EUR	97,000			Bundesrepublik Deutschland	EUR	230,000	279,055	
25/04/2041 France Government Bond OAT 2.50%	EUR	90,000	104,065	0.68	Bundesanleihe 2.50% 04/07/2044 Bundesrepublik Deutschland	EUR	14,000	13,839	0.09
25/05/2043 France Government Bond OAT 0.50%	EUR	19,000	16,517	0.11	Bundesanleihe 2.50% 15/08/2046 Bundesrepublik Deutschland	EUR	52,000	51,653	0.34
25/06/2044	EUR	42,000	24,278	0.16	Bundesanleihe 1.25% 15/08/2048	EUR	108,000	82,741	0.54
France Government Bond OAT 3.25% 25/05/2045	EUR	45,000	44,308	0.29	Bundesrepublik Deutschland Bundesanleihe 0.00% 15/08/2050	EUR	83,000	42,541	0.28
France Government Bond OAT 2.00% 25/05/2048	EUR	91.000	70,214	0.46	Bundesrepublik Deutschland Bundesanleihe 0.00% 15/08/2050	EUR	95,000	48,779	0.32
France Government Bond OAT 1.50%		,		0.54	Bundesrepublik Deutschland				0.05
25/05/2050 France Government Bond OAT 0.75%	EUR	123,000	83,031		Bundesanleihe 0.00% 15/08/2052 Bundesschatzanweisungen 0.00%	EUR	16,000	7,831	
25/05/2052 France Government Bond OAT 0.75%	EUR	40,000	21,130	0.14	15/03/2024 Bundesschatzanweisungen 0.20%	EUR	149,000	144,663	0.94
25/05/2053 France Government Bond OAT 4.00%	EUR	56,000	28,787	0.19	14/06/2024 Bundesschatzanweisungen 2.20%	EUR	47,000	45,403	0.29
25/04/2055	EUR	62,000	69,743	0.45	12/12/2024	EUR	36,000	35,649	0.23
France Government Bond OAT 4.00% 25/04/2060	EUR	61,000	70,196	0.46	Germany total		-	2,757,396	17.90
France Government Bond OAT 0.50% 25/05/2072	EUR	57,000	21,228	0.14	Ireland (31 December 2021: 2.02%) Ireland Government Bond 3.40%		-		
France total			3,934,619	25.54	18/03/2024 Ireland Government Bond 5.40%	EUR	23,000	23,181	0.15
Germany (31 December 2021: 16.80%) Bundesobligation 0.00% 05/04/2024	FIID	21.000	30,050	0.20	13/03/2025 Ireland Government Bond 1.00%	EUR	14,000	14,780	0.10
Bundesobligation 0.00% 05/04/2024  Bundesobligation 0.00% 18/10/2024	EUR EUR	31,000 91,000	86,990	0.20	15/05/2026	EUR	31,000	29,457	0.19
Bundesobligation 0.00% 11/04/2025 Bundesobligation 0.00% 10/10/2025	EUR EUR	106,000 58,000	100,102 54,335	0.65 0.35	Ireland Government Bond 0.20% 15/05/2027	EUR	41,000	36,669	0.24
Bundesobligation 0.00% 10/04/2026	EUR	51,000	47,032	0.31	Ireland Government Bond 0.90% 15/05/2028	EUR	16,000	14,483	0.09
Bundesobligation 0.00% 09/10/2026 Bundesobligation 0.00% 16/04/2027	EUR EUR	25,000 75,000	22,742 67,320	0.15 0.44	Ireland Government Bond 1.10%				
Bundesobligation 1.30% 15/10/2027 Bundesrepublik Deutschland	EUR	21,000	19,841	0.13	15/05/2029 Ireland Government Bond 2.40%	EUR	2,000	1,791	0.01
Bundesanleihe 6.25% 04/01/2024	EUR	16,000	16,620	0.11	15/05/2030 Ireland Government Bond 0.20%	EUR	16,000	15,449	0.10
Bundesrepublik Deutschland Bundesanleihe 1.50% 15/05/2024	EUR	17,000	16,771	0.11	18/10/2030	EUR	61,000	49,427	0.32
Bundesrepublik Deutschland Bundesanleihe 1.00% 15/08/2024	EUR	11,000	10,732	0.07	Ireland Government Bond 1.35% 18/03/2031	EUR	10,000	8,876	0.06
Bundesrepublik Deutschland					Ireland Government Bond 0.00% 18/10/2031	EUR	27,000	20,773	0.13
Bundesanleihe 0.50% 15/02/2025 Bundesrepublik Deutschland	EUR	115,000	110,160	0.71	Ireland Government Bond 0.35% 18/10/2032	EUR	35,000	27,075	0.17
Bundesanleihe 0.50% 15/02/2026 Bundesrepublik Deutschland	EUR	2,000	1,879	0.01	Ireland Government Bond 1.30%				
Bundesanleihe 0.00% 15/08/2026 Bundesrepublik Deutschland	EUR	137,000	125,348	0.81	15/05/2033 Ireland Government Bond 0.55%	EUR	5,000	4,193	0.03
Bundesanleihe 0.25% 15/02/2027	EUR	144,000	131,517	0.85	22/04/2041 Ireland Government Bond 2.00%	EUR	11,000	6,857	0.04
Bundesrepublik Deutschland Bundesanleihe 0.50% 15/08/2027	EUR	18,000	16,440	0.11	18/02/2045	EUR	36,000	28,629	0.19
Bundesrepublik Deutschland Bundesanleihe 0.00% 15/11/2027	EUR	130.000	115,128	0.75	Ireland Government Bond 1.50% 15/05/2050	EUR	17,000	11,679	0.08
Bundesrepublik Deutschland		,			Ireland total		-	293,319	1.90
Bundesanleihe 0.50% 15/02/2028 Bundesrepublik Deutschland	EUR	108,000	97,647	0.63	Italy (31 December 2021: 22.18%)		-		
Bundesanleihe 0.25% 15/08/2028 Bundesrepublik Deutschland	EUR	40,000	35,315	0.23	Italy Buoni Poliennali Del Tesoro 0.00% 15/01/2024	EUR	64,000	62,044	0.40
Bundesanleihe 0.00% 15/11/2028 Bundesrepublik Deutschland	EUR	87,000	75,267	0.49	Italy Buoni Poliennali Del Tesoro 4.50%				
Bundesanleihe 0.25% 15/02/2029	EUR	60,000	52,442	0.34	01/03/2024 Italy Buoni Poliennali Del Tesoro 0.00%	EUR	2,000	2,032	0.01
Bundesrepublik Deutschland Bundesanleihe 0.00% 15/08/2029	EUR	25,000	21,222	0.14	15/04/2024 Italy Buoni Poliennali Del Tesoro 1.85%	EUR	16,000	15,386	0.10
Bundesrepublik Deutschland Bundesanleihe 2.10% 15/11/2029	EUR	15,000	14,611	0.09	15/05/2024	EUR	58,000	57,002	0.37
Bundesrepublik Deutschland					Italy Buoni Poliennali Del Tesoro 1.75% 01/07/2024	EUR	22,000	21,535	0.14
Bundesanleihe 6.25% 04/01/2030 Bundesrepublik Deutschland	EUR	33,000	40,812	0.26	Italy Buoni Poliennali Del Tesoro 0.00% 15/08/2024	EUR	15,000	14,257	0.09
Bundesanleihe 0.00% 15/02/2030 Bundesrepublik Deutschland	EUR	69,000	57,879	0.38	Italy Buoni Poliennali Del Tesoro 3.75% 01/09/2024	EUR	109,000	109,928	0.71
Bundesanleihe 0.00% 15/08/2030	EUR	30,000	24,878	0.16	Italy Buoni Poliennali Del Tesoro 1.45%				
Bundesrepublik Deutschland Bundesanleihe 0.00% 15/08/2030	EUR	70,000	58,027	0.38	15/11/2024 Italy Buoni Poliennali Del Tesoro 2.50%	EUR	15,000	14,532	0.09
Bundesrepublik Deutschland Bundesanleihe 5.50% 04/01/2031	EUR	194,000	234,631	1.52	01/12/2024 Italy Buoni Poliennali Del Tesoro 0.00%	EUR	66,000	65,161	0.42
					15/12/2024	EUR	32,000	30,093	0.19

# JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Italy Buoni Poliennali Del Tesoro 0.35% 01/02/2025	EUR	131,000	123,175	0.80	Italy Buoni Poliennali Del Tesoro 5.00% 01/08/2039	EUR	95,000	96,666	0.63
Italy Buoni Poliennali Del Tesoro 1.45% 15/05/2025	EUR	39,000	37,330	0.24	Italy Buoni Poliennali Del Tesoro 3.10% 01/03/2040	EUR	9,000	7,204	0.05
Italy Buoni Poliennali Del Tesoro 1.85% 01/07/2025	EUR	62,000	59,594	0.39	Italy Buoni Poliennali Del Tesoro 5.00% 01/09/2040	EUR	27,000	27,558	0.18
Italy Buoni Poliennali Del Tesoro 1.20% 15/08/2025				0.43	Italy Buoni Poliennali Del Tesoro 1.80% 01/03/2041				0.04
Italy Buoni Poliennali Del Tesoro 2.00%	EUR	70,000	65,953		Italy Buoni Poliennali Del Tesoro 4.75%	EUR	9,000	5,781	
01/12/2025 Italy Buoni Poliennali Del Tesoro 3.50%	EUR	76,000	72,822	0.47	01/09/2044 Italy Buoni Poliennali Del Tesoro 1.50%	EUR	59,000	58,343	0.38
15/01/2026 Italy Buoni Poliennali Del Tesoro 0.50%	EUR	62,000	61,654	0.40	30/04/2045 Italy Buoni Poliennali Del Tesoro 2.70%	EUR	69,000	38,606	0.25
01/02/2026 Italy Buoni Poliennali Del Tesoro 4.50%	EUR	15,000	13,641	0.09	01/03/2047 Italy Buoni Poliennali Del Tesoro 3.45%	EUR	16,000	11,447	0.07
01/03/2026 Italy Buoni Poliennali Del Tesoro 0.00%	EUR	12,000	12,314	0.08	01/03/2048 Italy Buoni Poliennali Del Tesoro 3.85%	EUR	39,000	31,720	0.21
01/04/2026 Italy Buoni Poliennali Del Tesoro 1.60%	EUR	93,000	82,626	0.54	01/09/2049 Italy Buoni Poliennali Del Tesoro 2.45%	EUR	33,000	28,533	0.18
01/06/2026	EUR	2,000	1,870	0.01	01/09/2050	EUR	13,000	8,558	0.06
Italy Buoni Poliennali Del Tesoro 2.10% 15/07/2026	EUR	22,000	20,867	0.13	Italy Buoni Poliennali Del Tesoro 1.70% 01/09/2051	EUR	42,000	22,994	0.15
Italy Buoni Poliennali Del Tesoro 0.00% 01/08/2026	EUR	69,000	60,584	0.39	Italy Buoni Poliennali Del Tesoro 2.15% 01/09/2052	EUR	69,000	41,201	0.27
Italy Buoni Poliennali Del Tesoro 7.25% 01/11/2026	EUR	20,000	22,596	0.15	Italy Buoni Poliennali Del Tesoro 2.80% 01/03/2067	EUR	36,000	23,952	0.16
Italy Buoni Poliennali Del Tesoro 1.25% 01/12/2026	EUR	43,000	39,247	0.25	Italy total		=	3,320,342	21.55
Italy Buoni Poliennali Del Tesoro 0.85% 15/01/2027	EUR	10,000	8,947	0.06	Netherlands (31 December 2021: 4.78%)		_		
Italy Buoni Poliennali Del Tesoro 1.10% 01/04/2027	EUR	87,000	78,008	0.51	Netherlands Government Bond 2.00% 15/07/2024	EUR	56,000	55,413	0.36
Italy Buoni Poliennali Del Tesoro 2.20% 01/06/2027			21,606	0.14	Netherlands Government Bond 0.25% 15/07/2025	EUR	74,000	69,671	0.45
Italy Buoni Poliennali Del Tesoro 2.05%	EUR	23,000			Netherlands Government Bond 0.00% 15/01/2026	EUR	26,000	23,943	0.15
01/08/2027 Italy Buoni Poliennali Del Tesoro 0.95%	EUR	250,000	231,944	1.51	Netherlands Government Bond 0.50% 15/07/2026	EUR	42,000	38,973	0.25
15/09/2027 Italy Buoni Poliennali Del Tesoro 6.50%	EUR	3,000	2,635	0.02	Netherlands Government Bond 0.00%				
01/11/2027 Italy Buoni Poliennali Del Tesoro 2.65%	EUR	93,000	104,061	0.67	15/01/2027 Netherlands Government Bond 0.75%	EUR	21,000	18,856	0.12
01/12/2027 Italy Buoni Poliennali Del Tesoro 0.50%	EUR	41,000	38,683	0.25	15/07/2027 Netherlands Government Bond 0.75%	EUR	6,000	5,514	0.04
15/07/2028 Italy Buoni Poliennali Del Tesoro 4.75%	EUR	2,000	1,652	0.01	15/07/2028 Netherlands Government Bond 0.00%	EUR	42,000	37,831	0.25
01/09/2028 Italy Buoni Poliennali Del Tesoro 0.45%	EUR	40,000	41,476	0.27	15/01/2029 Netherlands Government Bond 0.25%	EUR	44,000	37,310	0.24
15/02/2029	EUR	20,000	16,035	0.10	15/07/2029 Netherlands Government Bond 0.00%	EUR	40,000	34,079	0.22
Italy Buoni Poliennali Del Tesoro 2.80% 15/06/2029	EUR	77,000	70,853	0.46	15/07/2030 Netherlands Government Bond 0.00%	EUR	105,000	85,145	0.55
Italy Buoni Poliennali Del Tesoro 3.00% 01/08/2029	EUR	376,000	351,315	2.28	15/07/2031	EUR	58,000	45,671	0.30
Italy Buoni Poliennali Del Tesoro 3.85% 15/12/2029	EUR	74,000	71,798	0.47	Netherlands Government Bond 0.50% 15/07/2032	EUR	27,000	21,704	0.14
Italy Buoni Poliennali Del Tesoro 1.35% 01/04/2030	EUR	17,000	13,917	0.09	Netherlands Government Bond 2.50% 15/01/2033	EUR	29,000	28,002	0.18
Italy Buoni Poliennali Del Tesoro 0.95% 01/08/2030	EUR	31,000	24,277	0.16	Netherlands Government Bond 4.00% 15/01/2037	EUR	13,000	14,537	0.09
Italy Buoni Poliennali Del Tesoro 1.65% 01/12/2030	EUR	22,000	18,018	0.12	Netherlands Government Bond 0.00% 15/01/2038	EUR	30.000	19,510	0.13
Italy Buoni Poliennali Del Tesoro 0.90%				0.12	Netherlands Government Bond 0.50% 15/01/2040	EUR	15,000	10,246	0.07
01/04/2031 Italy Buoni Poliennali Del Tesoro 6.00%	EUR	2,000	1,521		Netherlands Government Bond 3.75% 15/01/2042	EUR	52,000	58,471	0.38
01/05/2031 Italy Buoni Poliennali Del Tesoro 0.60%	EUR	92,000	102,659	0.67	Netherlands Government Bond 2.75%				0.47
01/08/2031 Italy Buoni Poliennali Del Tesoro 0.95%	EUR	13,000	9,482	0.06	15/01/2047 Netherlands Government Bond 0.00%	EUR	72,000	71,915	
01/12/2031 Italy Buoni Poliennali Del Tesoro 1.65%	EUR	56,000	41,599	0.27	15/01/2052 Netherlands Government Bond 2.00%	EUR	34,000	16,253	0.11
01/03/2032 Italy Buoni Poliennali Del Tesoro 0.95%	EUR	10,000	7,897	0.05	15/01/2054	EUR	7,000 –	5,971	0.04
01/06/2032 Italy Buoni Poliennali Del Tesoro 2.50%	EUR	14,000	10,222	0.07	Netherlands total		_	699,015	4.54
01/12/2032 Italy Buoni Poliennali Del Tesoro 5.75%	EUR	81,000	67,455	0.44	Portugal (31 December 2021: 2.31%) Portugal Obrigacoes do Tesouro OT 5.65%				
01/02/2033	EUR	57,000	61,819	0.40	15/02/2024 Portugal Obrigacoes do Tesouro OT 2.88%	EUR	24,000	24,758	0.16
Italy Buoni Poliennali Del Tesoro 2.45% 01/09/2033	EUR	2,000	1,621	0.01	15/10/2025 Portugal Obrigacoes do Tesouro OT 2.88%	EUR	40,000	39,992	0.26
Italy Buoni Poliennali Del Tesoro 5.00% 01/08/2034	EUR	47,000	47,702	0.31	21/07/2026 Portugal Obrigacoes do Tesouro OT 4.13%	EUR	32,000	32,003	0.21
Italy Buoni Poliennali Del Tesoro 3.35% 01/03/2035	EUR	16,000	13,817	0.09	14/04/2027	EUR	14,000	14,665	0.10
Italy Buoni Poliennali Del Tesoro 2.25% 01/09/2036	EUR	368,000	277,983	1.80	Portugal Obrigacoes do Tesouro OT 0.70% 15/10/2027	EUR	10,000	9,012	0.06
Italy Buoni Poliennali Del Tesoro 4.00% 01/02/2037	EUR	69,000	64,106	0.42	Portugal Obrigacoes do Tesouro OT 2.13% 17/10/2028	EUR	23,000	21,931	0.14
Italy Buoni Poliennali Del Tesoro 0.95% 01/03/2037	EUR	15,000	9,294	0.06	Portugal Obrigacoes do Tesouro OT 1.95% 15/06/2029	EUR	79,000	73,651	0.48
Italy Buoni Poliennali Del Tesoro 3.25%					Portugal Obrigacoes do Tesouro OT 0.48% 18/10/2030	EUR	14,000	11,290	0.07
01/03/2038 Italy Buoni Poliennali Del Tesoro 2.95%	EUR	21,000	17,448	0.11	Portugal Obrigacoes do Tesouro OT 0.30% 17/10/2031	EUR	53,000	40,468	0.26
01/09/2038	EUR	27,000	21,686	0.14	Portugal Obrigacoes do Tesouro OT 1.65% 16/07/2032	EUR	13,000	11,008	0.07
					,,	LUIN	13,000	11,000	0.07

### JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Portugal Obrigacoes do Tesouro OT 2.25% 18/04/2034	EUR	32,000	28,023	0.18	Spain Government Bond 0.50% 30/04/2030	EUR	19,000	15,551	0.10
Portugal Obrigacoes do Tesouro OT 1.15% 11/04/2042	EUR	14,000	8,880	0.06	Spain Government Bond 1.95% 30/07/2030	EUR	15,000	13,601	0.09
Portugal Obrigacoes do Tesouro OT 4.10%					Spain Government Bond 1.25%				
15/02/2045 Portugal Obrigacoes do Tesouro OT 1.00%	EUR	19,000	19,738	0.13	31/10/2030 Spain Government Bond 0.10%	EUR	17,000	14,546	0.09
12/04/2052	EUR	7,000 _	3,460	0.02	30/04/2031 Spain Government Bond 0.70%	EUR	46,000	35,066	0.23
Portugal total		_	338,879	2.20	30/04/2032 Spain Government Bond 5.75%	EUR	6,000	4,652	0.03
Spain (31 December 2021: 14.64%) Spain Government Bond 4.80%					30/07/2032 Spain Government Bond 2.55%	EUR	42,000	49,741	0.32
31/01/2024 Spain Government Bond 3.80%	EUR	32,000	32,723	0.21	31/10/2032 Spain Government Bond 2.35%	EUR	42,000	38,290	0.25
30/04/2024 Spain Government Bond 0.00%	EUR	51,000	51,644	0.34	30/07/2033	EUR	47,000	41,743	0.27
31/05/2024	EUR	63,000	60,526	0.39	Spain Government Bond 1.85% 30/07/2035	EUR	389,000	315,304	2.05
Spain Government Bond 1.60% 30/04/2025	EUR	61,000	59,261	0.38	Spain Government Bond 0.85% 30/07/2037	EUR	44,000	29,174	0.19
Spain Government Bond 0.00% 31/05/2025	EUR	56,000	52,131	0.34	Spain Government Bond 1.20% 31/10/2040	EUR	10,000	6,533	0.04
Spain Government Bond 4.65% 30/07/2025	EUR	116,000	120,936	0.78	Spain Government Bond 4.70% 30/07/2041			33,287	0.22
Spain Government Bond 2.15% 31/10/2025	EUR	6,000	5,884	0.04	Spain Government Bond 1.00%	EUR	30,000		
Spain Government Bond 0.00%					30/07/2042 Spain Government Bond 3.45%	EUR	60,000	36,531	0.24
31/01/2026 Spain Government Bond 1.95%	EUR	103,000	93,903	0.61	30/07/2043 Spain Government Bond 5.15%	EUR	24,000	22,105	0.14
30/04/2026 Spain Government Bond 5.90%	EUR	27,000	26,111	0.17	31/10/2044 Spain Government Bond 2.90%	EUR	39,000	46,194	0.30
30/07/2026 Spain Government Bond 1.30%	EUR	204,000	223,910	1.45	31/10/2046 Spain Government Bond 2.70%	EUR	24,000	20,509	0.13
31/10/2026 Spain Government Bond 0.00%	EUR	78,000	73,267	0.48	31/10/2048	EUR	60,000	48,607	0.32
31/01/2027	EUR	22,000	19,414	0.13	Spain Government Bond 1.00% 31/10/2050	EUR	34,000	17,581	0.11
Spain Government Bond 1.50% 30/04/2027	EUR	78,000	73,154	0.47	Spain Government Bond 1.90% 31/10/2052	EUR	26,000	16,557	0.11
Spain Government Bond 0.80% 30/07/2027	EUR	9,000	8,122	0.05	Spain Government Bond 3.45% 30/07/2066	EUR	48,000	42,458	0.28
Spain Government Bond 1.45% 31/10/2027	EUR	14,000	12,963	0.08	Spain Government Bond 1.45% 31/10/2071				0.04
Spain Government Bond 0.00% 31/01/2028	EUR	464,000	395,871	2.57		EUR	13,000	5,969 ———————————————————————————————————	
Spain Government Bond 1.40%					Spain total			2,277,862	14.78
30/04/2028 Spain Government Bond 1.40%	EUR	14,000	12,785	0.08	Total investments in Government Deb	ot Securities	:	15,258,323	99.04
30/07/2028 Spain Government Bond 5.15%	EUR	6,000	5,456	0.04	Total Bonds			15,258,323	99.04
31/10/2028 Spain Government Bond 0.60%	EUR	23,000	25,292	0.16			:	15,256,325	99.04
31/10/2029	EUR	84,000	70,510	0.46					
								Fair Value EUR	% of Net Assets
Total financial assets at fair value through	profit or loss							Value	Net
Cash	profit or loss	;						Value EUR 15,258,323 9,137	99.04 0.06
-			shares					Value EUR 15,258,323	Net Assets
Cash Other assets and liabilities			shares					Value EUR 15,258,323 9,137 139,541	99.04 0.06 0.90 100.00
Cash Other assets and liabilities Net asset value attributable to holders of	redeemable	participating s	icial stock exch					Value EUR 15,258,323 9,137 139,541	99.04 0.06 0.90 100.00 % of Total

Schedule of Investments

Investments	Currency	Quantity/ Nominal Value	Fair Value GBP	% of Net Assets
Bonds				
Government Debt Securities (31 Dec	ember 2021: 99.5	2%)		
United Kingdom (31 December 2021: 9	99.52%)			
UK Gilt 1.00% 22/04/2024	GBP	3,383,500	3,275,093	8.67
UK Gilt 2.75% 07/09/2024	GBP	3,357,500	3,310,293	8.76
UK Gilt 0.25% 31/01/2025	GBP	3,558,000	3,306,307	8.75
UK Gilt 5.00% 07/03/2025	GBP	2,807,700	2,887,467	7.64
UK Gilt 0.63% 07/06/2025	GBP	4,346,000	4,056,209	10.74
UK Gilt 2.00% 07/09/2025	GBP	3,787,800	3,638,561	9.63
UK Gilt 0.13% 30/01/2026	GBP	3,378,400	3,048,904	8.07
UK Gilt 1.50% 22/07/2026	GBP	4,143,000	3,856,677	10.21
UK Gilt 0.38% 22/10/2026	GBP	3,146,000	2,786,444	7.38
UK Gilt 4.13% 29/01/2027 UK Gilt 1.25% 22/07/2027	GBP	1,247,000	1,262,949	3.34 9.31
UK Gilt 4.25% 07/12/2027	GBP	3,897,000	3,515,523	
UK GIII 4.25% 07/12/2027	GBP	2,557,000	2,628,826	6.96
United Kingdom total			37,573,253	99.46
Total investments in Government D	ebt Securities	-	37,573,253	99.46
Total Bonds			37,573,253	99.46

	Fair Value GBP	% of Net Assets
Total financial assets at fair value through profit or loss Cash Other assets and liabilities Net asset value attributable to holders of redeemable participating shares	37,573,253 26,325 179,009 37,778,587	99.46 0.07 0.47 100.00
Analysis of total assets (Unaudited)		% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Other assets		91.26 8.74
Total Assets		100.00

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities (31 December 2021: 99.58%)					American Express Co. American Financial Group, Inc.	USD	329	48,610 5,217	0.26 0.03
Bermuda (31 December 2021: 0.06%) Arch Capital Group Ltd.	USD	203	12,744 7,288	0.07 0.04	American International Group, Inc. American Tower Corp., REIT	USD USD USD	38 408 256	25,802 54,236	0.14 0.29
Everest Re Group Ltd.  Bermuda total	USD	22 _	20,032	0.04	American Water Works Co., Inc. Ameriprise Financial, Inc.	USD USD	100 58	15,242 18,059	0.08 0.10
Canada (31 December 2021: 0.11%)	1165	_			AmerisourceBergen Corp. 'A' AMETEK, Inc.	USD USD	89 126	14,748 17,605	0.08 0.10
Lululemon Athletica, Inc.  Canada total	USD	64 —	20,504 20,504	0.11	Amgen, Inc. Amphenol Corp. 'A'	USD USD	293 327	76,954 24,898	0.42
Ireland (31 December 2021: 1.19%)		_			Analog Devices, Inc. Annaly Capital Management, Inc., REIT	USD USD	283 257	46,420 5,418	0.25
Accenture plc 'A' Allegion plc	USD USD	346 48	92,327 5,053	0.50 0.03	ANSYS, Inc. Elevance Health, Inc.	USD USD	48 131	11,596 67,199	0.06 0.36
Aptiv plc	USD	149	13,876	0.07	Aon plc 'A' APA Corp.	USD USD	114 177	34,216 8,262	0.18 0.04
Jazz Pharmaceuticals plc Medtronic plc	USD USD	35 730	5,576 56,736	0.03 0.31	Apollo Global Management, Inc.	USD	239	15,246	0.08
Trane Technologies plc	USD	127	21,347	0.11	Apple, Inc. Applied Materials, Inc.	USD USD	8,218 473	1,067,765 46,061	5.77 0.25
Ireland total			194,915	1.05	Aramark Archer-Daniels-Midland Co.	USD USD	142 302	5,870 28,041	0.03 0.15
Israel (31 December 2021: 0.04%) SolarEdge Technologies, Inc.	USD	31	8,782	0.05	Arista Networks, Inc. Arthur J Gallagher & Co.	USD USD	136 116	16,504 21,871	0.09
Israel total	035	_	8,782	0.05	Aspen Technology, Inc.  AT&T, Inc.	USD	16	3,286 72,112	0.02
Jersey (31 December 2021: 0.02%)		_			Atlassian Corp. 'A'	USD USD	3,917 81	10,423	0.06
Novocure Ltd.	USD	50	3,668	0.02	Atmos Energy Corp. Autodesk, Inc.	USD USD	77 119	8,629 22,238	0.05 0.12
Jersey total  Mexico (31 December 2021: 0.00%)			3,668	0.02	Automatic Data Processing, Inc. AutoZone, Inc.	USD USD	228 10	54,460 24,662	0.29 0.13
Southern Copper Corp.	USD	47	2,838	0.02	AvalonBay Communities, Inc., REIT Avangrid, Inc.	USD USD	77 38	12,437 1,633	0.07 0.01
Mexico total			2,838	0.02	Avantor, Inc. Avery Dennison Corp.	USD USD	371 44	7,824 7,964	0.04 0.04
Netherlands (31 December 2021: 0.14%) NXP Semiconductors NV	USD	142	22,440	0.12	Baker Hughes Co. 'A' Ball Corp.	USD USD	550 173	16,241 8,847	0.09
Netherlands total		_	22,440	0.12	Bank of America Corp. Bank of New York Mellon Corp. (The)	USD USD	3,836 404	127,048 18,390	0.69
South Korea (31 December 2021: 0.00%) Coupang, Inc. 'A'	USD	561	8,252	0.05	Bath & Body Works, Inc. Baxter International, Inc. Pacton Dickinson & Co.	USD USD	126 277	5,310 14,119 39,925	0.03 0.08 0.22
South Korea total		_	8,252	0.05	Becton Dickinson & Co. Bentley Systems, Inc. 'B'	USD USD	157 108	3,992	0.02
Switzerland (31 December 2021: 0.36%)		_			Berkshire Hathaway, Inc. 'B' Best Buy Co., Inc.	USD USD	990 110	305,811 8,823	1.65 0.05
Chubb Ltd. Garmin Ltd.	USD USD	228 84	50,297 7,752	0.27 0.04	Bill.com Holdings, Inc. Biogen, Inc.	USD USD	52 79	5,666 21,877	0.03
Switzerland total		_	58,049	0.31	BioMarin Pharmaceutical, Inc. Bio-Rad Laboratories, Inc. 'A'	USD USD	102 12	10,556 5,046	0.06
United Kingdom (31 December 2021: 0.70%) Amcor plc	USD	818	9,742	0.05	Bio-Techne Corp. BlackRock, Inc. 'A'	USD USD	86 83	7,128 58,816	0.04
Clarivate plc	USD	237	1,977	0.01	Blackstone, Inc. 'A' Block, Inc. 'A'	USD USD	386 295	28,637 18,538	0.15 0.10
Linde plc Pentair plc	USD USD	272 90	88,721 4,048	0.48 0.02	Boeing Co. (The)	USD	308	58,671	0.32
Willis Towers Watson plc	USD	59	14,430	0.08	Booking Holdings, Inc. Booz Allen Hamilton Holding Corp. 'A'	USD USD	21 73	42,321 7,630	0.23 0.04
United Kingdom total			118,918	0.64	BorgWarner, Inc. Boston Properties, Inc., REIT	USD USD	129 78	5,192 5,271	0.03
United States (31 December 2021: 96.79%) 3M Co.	USD	304	36,456	0.20	Boston Scientific Corp. Bristol-Myers Squibb Co.	USD USD	787 1,168	36,414 84,038	0.20 0.45
Abbott Laboratories	USD	958	105,179	0.57	Broadcom, Inc.	USD	223	124,686	0.67
AbbVie, Inc. Abiomed, Inc.	USD	972	157,085 26	0.85 0.00	Broadridge Financial Solutions, Inc. Brown & Brown, Inc.	USD USD	65 129	8,718 7,349	0.05 0.04
Activision Blizzard, Inc.	USD USD	25 391	29,931	0.16	Brown-Forman Corp. 'A'	USD	31	2,039	0.01
Adobe, Inc.	USD	255	85,815	0.46	Brown-Forman Corp. 'B'	USD	100	6,568	0.04
Advance Auto Parts, Inc. Advanced Micro Devices, Inc.	USD USD	33 886	4,852 57,386	0.03 0.31	Bunge Ltd. Burlington Stores, Inc.	USD USD	82 36	8,181 7,299	0.04 0.04
AES Corp. (The)	USD	367	10,555	0.06	Cadence Design Systems, Inc.	USD	151	24,257	0.13
Aflac, Inc. Agilent Technologies, Inc.	USD	311	22,373 24,393	0.12 0.13	Caesars Entertainment, Inc. Camden Property Trust, REIT	USD USD	118 59	4,909 6,601	0.03 0.04
agilon health, Inc.	USD USD	163 109	1,759	0.01	Campbell Soup Co.	USD	110	6,242	0.03
Air Products & Chemicals, Inc.	USD	122	37,608	0.20	Capital One Financial Corp.	USD	210	19,522	0.11
Airbnb, Inc. 'A' Akamai Technologies, Inc.	USD USD	219 86	18,724 7,250	0.10 0.04	Cardinal Health, Inc. Carlyle Group, Inc. (The)	USD USD	144 120	11,069 3,581	0.06 0.02
Albemarle Corp.	USD	64	13,879	0.07	CarMax, Inc.	USD	87	5,297	0.03
Albertsons Cos., Inc. 'A' Alexandria Real Estate Equities, Inc., REIT	USD USD	88 82	1,825 11,945	0.01 0.06	Carnival Corp. Carrier Global Corp.	USD USD	550 460	4,433 18,975	0.02 0.10
Align Technology, Inc.	USD	40	8,436	0.05	Catalent, Inc.	USD	99	4,456	0.02
Alliant Energy Corp.	USD	138	7,619	0.04	Caterpillar, Inc.	USD	286	68,514	0.37
Allstate Corp. (The) Ally Financial, Inc.	USD USD	146 164	19,798 4,010	0.11	CBRE Group, Inc. 'A' CDW Corp.	USD USD	174 74	13,391 13,215	0.07 0.07
Alnylam Pharmaceuticals, Inc.	USD	68	16,160	0.09	Celanese Corp. 'A'	USD	55	5,623	0.03
Alphabet, Inc. 'A'	USD	3,283	289,659	1.56	Centene Corp. CenterPoint Energy, Inc.	USD	311	25,505 10,377	0.14
Alphabet, Inc. 'C' Altria Group, Inc.	USD USD	2,910 985	258,204 45,024	1.39 0.24	Ceridian HCM Holding, Inc.	USD USD	346 84	5,389	0.08
Amazon.com, Inc.	USD	4,878	409,752	2.21	CF Industries Holdings, Inc.	USD	108	9,202	0.05
Ameren Corp. American Electric Power Co., Inc.	USD USD	142 282	12,627 26,776	0.07 0.14	CH Robinson Worldwide, Inc.	USD	65	5,951	0.03
	uJD	202	20,770	0.17					

Schedule of Investments (continued)

Comment   Comm	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Clamber School, Tebry  1939   588   69272   0.38   Clambi, re, Sett   1950   1954   0.00   0.	Charles River Laboratories International,	1160	20	6 101	0.03					0.04
Charset Communications, Inc. X  160  160  160  160  160  160  160  16										
Cherron Con.  1 190 197 978 25541 0.05	Charter Communications, Inc. 'A'	USD	59	20,007	0.11					0.03
Prince   Provide Service   1920   15   70,000   101   102	Cheniere Energy, Inc.									0.03
Thinn's Alleysian Care.  1930   1941   1930   0.00   20   20   20   20   20   20										
Cignet Comp.   Cign	Church & Dwight Co., Inc.									0.04
Contact Carp.  (190   247   21256   0.01   0.00   0	Cigna Corp.									0.04
Crist Systems, Mr. 1950   22-297   1075-729   10-25						07.				
Cilgroup, Inc.  100 1 201 1004 14112 0.00 Perform Corp.  100 201 1004 14112 0.00 Perform Corp.  100 1004 1004 1005 0.00 Perform Corp.  100 1005 1005 0.00 Perform Corp.  1	Cisco Systems, Inc.									
Calizon C., (17th)   California   Californ	Citigroup, Inc.					•				0.13
Claselflare, No. 'A   1950   15.5   7.073   0.44   10.5							USD	83	7,271	0.04
CME Group, Inc. "A"  (ISP) 1988 33-296 0.33  Francisco (Chiefe Conf.)  (ISP) 218 18-297 1989 32-296 0.33  Francisco (Chiefe Conf.)  (ISP) 218 18-297 1999 1999 1999 1999 1999 1999 1999 1							IISD	87	9 041	0.05
Cook-Colif. Cr. (The)	CME Group, Inc. 'A'									0.06
Cogness Comp.   USD   95   4.475   0.02   Fartest Research Systems, Inc.   150   21   14.906   0.05   0.0	CMS Energy Corp.									1.35
Cognizati Technology Solutions Corp. 14"   USD   282   16,178   Co.09   Fasternal Co.   USD   215   14,906   Co.00   Colonizate Challan, Co.   USD   479   30,007   Colonizate Challan, Co.   USD   479   30,007   Colonizate Challan, Co.   USD   479   30,005   Colonizate Challan, Co.   USD   479   30,005   Colonizate Challan, Co.   USD   22,002   Colonizate Challan, Co.   USD   23,003   Colonizate Challan, Co.   USD   23,004   Colonizate Challan, Co.   USD   24,004   Colonizate Challa										
Ceichare Goldon, Inc. "A'  USD 49 36,165 9  Referen Ready Investment Trans, FIFT USD 40 4,047 0,079 (cigate Pulmolism) Co. USD 499 36,165 9  Contract Cryp." A'  USD 22,72 88,794 0,03 Feffeth National Financial, Inc. USD 150 5,641 0,000 1,00						•				
Comissaliant França (195) 2,377 8,283 0.05 Fibellity National Information Services, Inc. USD 263 10,788 0.05 Fifth Tirtle Bencrop (195) 2,362 2,219 0.12 (196) 2,000 per part of the part	Coinbase Global, Inc. 'A'									0.02
Comercia, Inc.  195   22   4,813   0.03   feletity National Information Services, Inc.  195   23   10,173   0.03   Feletity National Information Services, Inc.  195   26   10,173   0.04   Feletity National Information Services, Inc.  195   10   65   80,033   0.04   First Republic Bank  195   10   12,31   0.07	Colgate-Palmolive Co.									0.12
Comage Brands, Inc.  USD 2-83 10,178 0.04 Fifth Finde Harmorp										
Camoschellilles (1850 685 80,2330 0.4 First Republic Gank 1851 010 12,311 0.07 (Consolidated Edward, Inc. "A 1850 89 20,256 0.10 First State Inc. 1850 59 12,540 0.07 (Constellation transf., Inc. "A" 1850 89 20,256 0.10 First State Inc. 1850 59 12,540 0.07 (Constellation transf.) Inc. "A" 1850 89 20,256 0.10 First State Inc. 1850 39 39,353 0.07 (Constellation transf.) Inc. "A" 1850 89 20,256 0.10 First Inc. 1850 39 39,353 0.07 (Constellation transf.) Inc. "A" 1850 89 20,256 0.10 First Inc. 1850 39 39,353 0.10 0.10 First Inc. 1850 39 39,353 0.10 0.10 First Inc. 1850 39 39,353 0.10 0.10 First Inc. 1850 39 39 39,353 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	Conagra Brands, Inc.									0.12
Constellation Frances, Inc. "A" USD 89 20,069 of J. First Trengy Grop. USD 180 15318 O.8 First Trengy Grop. USD 180 15318	ConocoPhillips			80,830		First Republic Bank			12,311	0.07
Constellation Energy Corp. Conser Cost, Inc. (16)  USD 27 8,928 0.05  Fleet Ltd. USD 28 14,270 0.05  Copart, Inc. USD 28 14,270 0.05  Fleet Ltd. USD 29 15,318 0.05  Fleet Ltd. USD 20 15,										0.04
Cooper Cos., Inc., (The) Cooper Cos., (Th										
Grebringe Financial, Inc.  USD 43 863 0.00 FMC Corp.  USD 2310 0.07 Ford Motor Co.  USD 271 25,249 0.14 Cortex, Inc.  USD 393 23,101 0.07 Fortiwe Crip.  USD 393 23,101 0.07 Fortiwe Crip.  USD 394 12,465 0.07 Costat Milesale Crop.  USD 241 110,930 0.00 Fortiwe Crip.  USD 243 110,930 0.00 Fortiwe Crip.  USD 366 17,405 0.00 Costat Milesale Crip.  USD 378 18,90 0.00 Fortiwe Crip.  USD 138 10,839 0.00 Fortiwe Crip.  USD 143 10,839 0.00 Fortiwe Crip.  USD 155 128 12,822 0.17 Franklin Resources, Inc.  USD 166 5,440 0.03 Franklins, Inc.  USD 166 5,460 0.03 Franklins, Inc.  USD 167 29,868 0.10 Costan, Inc.  USD 178 18,899 0.10 General Holdings, Inc.  USD 36 4,286 0.03 General Holdings, Inc.  USD 36 4,286 0.03 General Holdings, Inc.  USD 36 5,286 0.03 General Holdings, Inc.  USD 36 5,298 0.03 General Holdings, Inc.  USD 378 0.00 General Holdings, Inc.  USD 167 9,288 0.03 General Holdings, Inc.  USD 179 1,286 0.00 General Holdings, Inc.  USD 179 1,286 0.00 General Holdings, Inc.  USD 179 1,286 0.00 General Holdings, Inc.  USD 170 1,287 0.00 General Holdings, Inc.  USD 171 1,287 0.00 General Holdings, Inc.  USD 171 1,283 0.00 General Holdings, Inc.  USD 171 1,287 0.00 General Holdings, Inc.  USD 172 1,287 0.00 General Holdings, Inc.  USD 173 1,287 0.00 General Ho	Cooper Cos., Inc. (The)									0.04
Germing, Inc.  USD 418 13.351 0.07 Fort Motor G.  USD 224 17.311 0.09 Fortinet, Inc.  USD 393 23.310 0.12 Fortinet, Inc.  USD 243 110.302 0.406 Fortinet, Inc.  USD 243 110.303 0.406 Fortinet, Inc.  USD 243 110.303 0.406 Fortinet Final Sinnovalions, Inc.  USD 194 12.465 0.09 Control William Sinnovalions, Inc.  USD 195 194 12.465 0.09 Control William Sinnovalions, Inc.  USD 195 194 12.465 0.09 Control William Sinnovalions, Inc.  USD 196 433 10.602 Fortinet Final Sinnovalions, Inc.  USD 196 433 10.602 Fortinet Final Sinnovalions, Inc.  USD 197 433 10.602 Fortinet Final Sinnovalions, Inc.  USD 198 433 10.602 Fortinet Final Sinnovalions, Inc.  USD 198 433 10.602 Fortinet Final Sinnovalions, Inc.  USD 198 431 14.461 0.002 Fortinet Final Sinnovalions, Inc.  USD 198 65 5.426 0.03 Freeport-McMoRan, Inc.  USD 198 18.899 0.10 Genther, Inc.  USD 78 18.899 0.10 Genther, Inc.  USD 78 18.899 0.10 Genther, Inc.  USD 78 18.899 0.10 Genther, Inc.  USD 300 65.551 0.52 Genther Inc.  USD 301 66 67.43 0.55 Genther Inc.  USD 301 66 67.43 0.55 Genther Inc.  USD 301 126 0.571 0.000 Genther Inc.  USD 301 126 0.000 Genther Inc.  USD 301 127 0.000 Genther Inc.  USD 301 127 0.000 Genther Inc.  USD 301 127 0.000 Genther Inc.  USD 499 19.636 0.010 Genther Inc.  USD 490 19.636 0.010 Genther Inc.  USD 490 19.636 0.010 Genther Inc.  USD 490 19.636 0.010 Genther Inc.  USD	Copart, Inc.									0.03
Cortex inc.  USD 393 2,3101 0.12 Fortinet, Inc.  USD 394 17,411 0.09 Fortive Corp.  USD 194 12,465 0.07 Costar Group, Inc.  USD 194 12,465 0.07 Fortive Corp.  USD 194 12,465 0.07 Costar Group, Inc.  USD 433 110,939 0.06 Fortive Brands Innovations, Inc.  USD 1043 110,939 0.06 Fortive Brands Innovations, Inc.  USD 105 118 12,444 0.07 Fox Corp. William 105 118 12,444 0.07 Fox Corp. Brands Innovations, Inc.  USD 118 12,444 0.07 Fox Corp. Brands Innovations, Inc.  USD 106 107 Fox Corp. Brands Innovations, Inc.  USD 107 107 Fox Corp. Brands Innovations, Inc.  USD 108 1155 35,782 0.19 Gartner, Inc.  USD 115 35,782 0.19 Gartner, Inc.  USD 128 18,899 0.10 Gartner, Inc.  USD 129 6,7233 0.36 General Holdings, Inc.  USD 130 60 95,551 0.52 General Holdings, Inc.  USD 30 10,766 0.17 General Mixing Corp.  USD 30 0.95,551 0.52 General Holdings, Inc.  USD 30 0.95,551 0.52 General Holdings, Inc.  USD 31 2,209 0.00 General Mixing Corp.  USD 32 2,208 0.05 General Mixing Corp.  USD 33 2,209 0.00 General Mixing. Corp.  USD 340 2,209 0.00 General Mixing. Corp.  USD 350 12,209 0.00 General Mixing. Corp.  USD 360 95,551 0.52 General Mixing. Corp.  USD 360 95,510 0.00 General Mixing. Corp.  US	-									
Costar Group, Inc.  USD 24 17.311 0.09 Fortive Corp.  USD 243 11.032 0.00 Fortune Brands Innovations, Inc.  USD 43 10.639 0.06 Fortune Brands Innovations, Inc.  USD 43 10.639 0.06 Fortune Brands Innovations, Inc.  USD 43 10.639 0.06 Fox Corp. 'A' USD 166 5.041 0.00 Convertise Holdings, Inc. 'A' USD 168 5.041 0.00 Convertise Holdings, Inc.  USD 288 32.282 0.17 Franklin Resources, Inc.  USD 49 4.115 0.00 Convertise Holdings, Inc.  USD 360 95.551 0.52 General Holdings, Inc.  USD 360 95.551 0.52 General Holdings, Inc.  USD 360 95.551 0.52 General Holdings, Inc.  USD 360 9.00 0.05 General Holdings, Inc.  USD 37 11.557 0.00 General Holdings, Inc.  USD 47 11.557 0.00 General Holdings, Inc.  USD 47 11.557 0.00 General Hold										
Coterra Energy, Inc.  (USD 433 10,639 0.06 Fox Corp. "A USD 166 5,041 0.00 Crown Castle, Inc., REIT USD 288 13,282 0.17 Frankfilm Resources, Inc.  (USD 288 13,282 0.17 Frankfilm Resources, Inc., USD 156 4,115 0.00 Crown Castle, Inc., REIT USD 288 13,282 0.17 Frankfilm Resources, Inc., USD 156 4,115 0.00 Crown Holdings, Inc.  (USD 150 43 14,494 0.08 Cummins, Inc.  (USD 78 18,899 0.10 Gen Digital, Inc., USD 39 139 3,322 0.00 Darabeth Corp.  (USD 166 5,246 0.03 0.36 General Holdings, Inc., USD 39 3,323 0.00 Darabeth Corp.  (USD 360 95,551 0.05 General Holdings, Inc., USD 39 3,323 0.00 Darabeth Corp.  (USD 360 95,551 0.05 General Holdings, Inc., USD 360 50,274 0.07 Darabeth Restaurants, Inc.  (USD 136 9,79,288 0.035 General Holdings, Inc., USD 360 50,274 0.07 Darabeth Restaurants, Inc., USD 136 0.07 0.288 0.035 General Holdings, Inc., USD 360 50,274 0.07 Darabeth Restaurants, Inc., USD 136 0.07 0.288 0.035 General Holdings, Inc., USD 360 50,274 0.07 Darabeth Corp.  (USD 167 9,288 0.035 General Holdings, Inc., USD 30 0.00 50,274 0.07 Darabeth Corp.  (USD 167 9,288 0.035 General Holdings, Inc., USD 30 0.00 50,274 0.07 Darabeth Corp.  (USD 167 9,288 0.035 General Holdings, Inc., USD 30 0.00 50,274 0.07 Darabeth Corp.  (USD 167 9,288 0.035 General Holdings, Inc., USD 30 0.07 0.07 Darabeth Corp.  (USD 167 9,288 0.035 General Holdings, Inc., USD 30 0.07 0.07 Darabeth Corp.  (USD 167 9,288 0.035 General Holdings, Inc., USD 30 0.07 0.07 Darabeth Corp.  (USD 167 1,284 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	CoStar Group, Inc.			17,311					12,465	0.07
Crowderine Holdings, Inc. No.   USD   118   12,424   0.07   Fox Corp. 18   USD   77   2,191   0.01	Costco Wholesale Corp.									0.02
Crown Castle, Inc., ŘETÍ USD 288 32,282 0.17 Franklin Resources, Inc. USD 156 4,115 0.02 (crown Holdings, Inc. USD 166 5,426 0.03 freeport-Mokho8an, Inc. USD 43 14,454 0.08 (CSX corp. USD 1,155 35,782 0.19 Gartner, Inc. USD 43 14,454 0.08 (CSX corp. USD 1,155 35,782 0.19 Gartner, Inc. USD 319 14,454 0.08 (CVS Health Corp. USD 722 67,283 0.36 General Holdings, Inc. USD 35 3,322 0.02 Damaher Corp. USD 166 0.09,5531 0.52 General Pharmac Corp. USD 164 0.07 0.00 General Hills, Inc. USD 360 0.09,5531 0.02 General Holdings, Inc. USD 360 0.07 0.00 General Hills, Inc. USD 660 0.07,274 0.27 Damaher Corp. USD 136 0.00 0.00 General Hills, Inc. USD 660 0.05,274 0.27 Damaher Corp. USD 136 0.00 0.00 General Hills, Inc. USD 660 0.00 0.00 General Hills, Inc. USD 781 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.										
CSX CORP.   USD   1,155   35,782   0,19   Garfner, Inc.   USD   43   1,454   0,00	Crown Castle, Inc., REIT									0.02
Cummins, Inc.  (USD 78   18,899   0.10   0.60   0.1	Crown Holdings, Inc.									0.16
CVS Health Corp. USD 30 0,722 67,283 0,36 General Holdings, Inc. USD 36 0,9551 0,52 General Paymanics Corp. USD 166 0,5551 0,52 General Paymanics Corp. USD 166 0,52,24 0,52 General Electric Co. USD 600 50,274 0,27 0,27 0,27 0,27 0,27 0,27 0,27 0,27										
Danaher (Orp.   USD   360   95.551   O.52   General Dynamics Corp.   USD   124   30.766   O.17   Darden Restaurants, inc.   USD   67   9.268   O.55   General Horris (Cro.   USD   326   27.335   O.15   Darden Restaurants, inc.   USD   136   9.996   O.05   General Mills, inc.   USD   326   27.335   O.15   Davitra, inc.   USD   136   9.996   O.05   General Mills, inc.   USD   326   27.335   O.15   Dever & Co.   USD   151   64.743   O.35   Genuine Parts Co.   USD   77   13.860   O.07   Dell Technologies, inc. 'C'   USD   152   5.711   O.33   Gilead Sciences, inc.   USD   699   59.915   O.32   Delta Air Lines, inc.   USD   352   11.567   O.06   Global Payments, inc.   USD   149   14.799   O.08   Delta Air Lines, inc.   USD   352   22.082   O.12   Globad Payments, inc.   USD   85   6.360   O.03   Devon Increpty Corp.   USD   359   22.082   O.12   Globaddy, inc. 'A'   USD   85   6.360   O.03   Devon Increpty, inc.   USD   158   15.843   O.79   Halliburton Co.   USD   499   19.636   O.34   Diamondback Energy, inc.   USD   158   15.843   O.79   Halliburton Co.   USD   175   13.270   O.07   Discover Financial Services   USD   160   14.675   O.08   Mabro, inc.   USD   175   13.270   O.07   Dollar Tee, inc.   USD   156   14.675   O.08   Halliburton Co.   USD   177   4.332   O.02   Dollar Tee, inc.   USD   144   70.30   O.04   HeliCorp. 'A'   USD   175   12.70   O.07   Dominion Energy, inc.   USD   144   70.30   O.04   HeliCorp. 'A'   USD   159   7.396   O.04   Dominion Energy, inc.   USD   144   70.30   O.04   HeliCorp. 'A'   USD   159   149   0.682   O.05   O										
Datadog Inc. 'A'	Danaher Corp.					-				0.17
Dalvita, Inc.  USD 30 2,240 0.01 General Motors Co.  USD 781 26,273 0.14 Deere & Co.  USD 151 64,743 0.35 Genuine Parts Co.  USD 689 59,151 0.32 Delta Air Clines, Inc.  USD 182 5,711 0.03 Gliead Sciences, Inc.  USD 183 52 11,567 0.06 Global Payments, Inc.  USD 183 37,77 0.02 Global Payments, Inc.  USD 180 339 22,082 0.12 Global Payments, Inc.  USD 180 399 22,082 0.12 Global Payments, Inc.  USD 180 399 22,082 0.12 Global Payments, Inc.  USD 180 399 22,082 0.12 Global Payments, Inc.  USD 180 63,869 0.30 Deexcom, Inc.  USD 97 13,268 0.07 Halliburton Co.  USD 97 13,268 0.07 Halliburton Co.  USD 158 15,843 0.09 Hardford Financial Services Group, Inc.  USD 158 15,843 0.09 Hardford Financial Services Group, Inc.  USD 150 14,675 0.08 (The Payment Comp.) Inc.  USD 110 6,096 0.03 Hasbro, Inc.  USD 110 6,096 0.03 Hasbro, Inc.  USD 116 16,407 0.09 Healthpeak Properties, Inc., REIT USD 171 4,332 0.02 Deminors Prizza, Inc.  USD 116 16,407 0.09 Healthpeak Properties, Inc., REIT USD 295 7,396 0.04 Deminors Prizza, Inc.  USD 116 16,407 0.09 Healthpeak Properties, Inc., REIT USD 295 7,396 0.04 Deminors Prizza, Inc.  USD 116 16,407 0.09 Healthpeak Properties, Inc., REIT USD 38 4,554 0.02 Deminors Prizza, Inc.  USD 117 2,4332 0.02 Deminors Prizza, Inc.  USD 147 7,004 11 14,245 0.04 HEICO Corp. "USD 38 4,554 0.02 Deminors Prizza, Inc.  USD 171 15,322 0.08 Healthpeak Properties, Inc., REIT USD 38 4,554 0.02 Deminors Prizza, Inc.  USD 172 15,332 0.04 Herry Schell, Inc.  USD 173 18,338 0.02 Herry Schell, Inc.  USD 174 7,004 11 Herry Schell, Inc.  USD 175 18,325 0.08 Herry Schell, Inc.  USD 177 1,0427 0.06 Herry Schell, Inc.  USD 178 18,338 0.02 Herry Schell, Inc.  USD 179 18,245 0.05 Herry Schell, Inc.  USD 179 18,245 0.	Darden Restaurants, Inc.									0.27
Deere & Co.    USD   151   64,743   0.35   6enuine Parts Co.   USD   77   13,360   0.07     Dell Technologies, Inc. "C   USD   142   5,711   0.03     Dell Technologies, Inc. "C   USD   352   11,567   0.06     Dell Fachrologies, Inc. "C   USD   352   11,567   0.06     Dell Stript Visibowa, Inc.   USD   149   14,799   0.08     Dell Stript Visibowa, Inc.   USD   149   14,799   0.08     Devon Inc.   USD   359   22,082   0.12   60had Payments, Inc.   USD   55   6,360   0.03     Devon Inc.   USD   212   24,007   0.13   60had Payments, Inc.   USD   186   63,869   0.34     Damondback Energy, Inc.   USD   158   15,843   0.09   Hartford Financial Services Group, Inc.   USD   499   19,636   0.11     Digital Realty Trust, Inc., REIT   USD   159   14,675   0.08   (The Department) Services Group, Inc.   USD   159   14,675   0.08   (The Department) Services Group, Inc.   USD   150   14,675   0.08   (The Department) Services Group, Inc.   USD   150   14,675   0.08   (The Department) Services Group, Inc.   USD   110   0.096   0.03     Doucis General Corp.   USD   124   30,535   0.16   HCA Healthcare, Inc.   USD   17   28,075   0.15     Dollar General Corp.   USD   16   16,407   0.09   Healthpeak Properties, Inc., REIT   USD   295   7,396   0.04     Dominion Energy, Inc.   USD   144   7,030   0.04   Henry Schein, Inc.   USD   38   4,554   0.02     Dominion Spizza, Inc.   USD   144   7,030   0.04   Henry Schein, Inc.   USD   18   18,757   0.10     Dower Corp.   USD   172   15,332   0.08   Hewlett Packad Enterprise Co.   USD   179   11,284   0.06     Dower Group, USD   175   15,332   0.08   Hewlett Packad Enterprise Co.   USD   179   17,829   0.04     Dower Group, USD   176   15,332   0.08   Hewlett Packad Enterprise Co.   USD   179   11,284   0.06     DECENTANCIA, USD   136   19,796   0.11   Hess Corp.   USD   159   7,742   0.06     DECENTANCIA, USD   136   19,796   0.11   Hess Corp.   USD   159   7,742   0.06     DECENTANCIA, USD   136   19,796   0.11   Hess Corp.   USD   159   7,787   0.04     Dower Group, Inc.   USD   144   17										
Dell Terchnologies, Inc. "C"  USD 142 5.711 0.03 Gilead Sciences, Inc. USD 689 59.151 0.32 Delta Air Lines, Inc. USD 150 149 14.799 0.08 DENTSPLY SIRONA, Inc. USD 118 3.757 0.02 Globe Life, Inc. USD 50 6.028 0.03 Dexcorn, Inc. USD 359 2.20.82 0.12 Globe Life, Inc. USD 85 6.360 0.03 Dexcorn, Inc. USD 212 24.007 0.13 Goldman Sachs Group, Inc. (The) USD 186 6.360 0.03 Dexcorn, Inc. USD 150 158 15.843 0.09 Hallburton Co. USD 158 15.843 0.09 Hallburton Co. USD 158 15.843 0.09 Hallburton Co. USD 150 150 14.675 0.08 (The) USD 175 13.270 0.07 Docusign, Inc. "WSD 110 6.096 0.03 Hasbro, Inc. "USD 110 6.096 0.03 Hasbro, Inc. "USD 110 6.096 0.03 Hasbro, Inc. "USD 116 16.407 0.09 Healthbeak Properties, Inc., REIT USD 150 124 30.535 0.16 HCA Healthbeak Properties, Inc., REIT USD 159 6.582 0.04 HeliCo Corp. USD 177 28.075 0.15 Dominios Pieza, Inc. USD 144 7.030 0.04 HeliCo Corp. USD 122 3.380 0.00 Dominios Pieza, Inc. USD 144 7.030 0.04 HeliCo Corp. USD 225 3.380 0.00 Doorloash, Inc. "A' USD 144 7.030 0.04 HeliCo Corp. USD 150 144 7.030 0.04 Henry Schein, Inc. USD 150 144 7.030 0.04 Henry Schein, Inc. USD 150 181 18,757 0.10 Dow, Inc. USD 166 12.458 0.07 HeliCo Corp. USD 150 151 18,757 0.10 Dow, Inc. USD 166 12.458 0.07 Helico Corp. USD 150 150 150 150 150 150 150 150 150 150	Deere & Co.									0.07
DENTSPLY SIRONA, Inc.  USD 118 3,757 0.02 Globe Life, Inc.  USD 50 6,028 0.03 0.03 Dexcm, Inc.  USD 212 24,007 0.13 Globady, Inc. ("I USD 85 6,360 0.03 Dexcm, Inc.  USD 97 13,268 0.07 Alabhard Schergy, Inc.  USD 158 15,843 0.09 Hartford Financial Services Group, Inc. (The) USD 196 63,869 0.24 0.00 USD 197 11,268 0.07 Halliburton Co.  USD 150 158 15,843 0.09 Hartford Financial Services Group, Inc. ("Inc. USD 71 4,332 0.02 USD 197 11,268 0.07 Halliburton Co.  USD 110 6,096 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 71 4,332 0.02 USD 197 12,433 0.02 USD 197 12,43 0.05 0.16 Harbord Financial Services Group, Inc. ("Inc. USD 116 16,609 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 116 16,609 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 116 16,609 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 116 16,609 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 116 16,609 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 116 16,609 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 116 16,609 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 116 16,609 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 116 16,609 0.03 Harbord Financial Services Group, Inc. ("Inc. USD 117 24,332 0.02 Hock Enterpty, Inc. USD 117 24,332 0.02 Hock Enterpty, Inc. ("Inc. USD 117 24,332 0.02 Healthcare, Inc. USD 117 24,005 0.04 Healthcare, Inc. USD 38 4,555 0.02 HEICO Corp. ("Inc. USD 13 4,555 0.02 HeICO Corp. ("Inc. USD 152 21,557 0.12 Dow, Inc. USD 126 3,339 0.03 HeICO Corp. USD 152 21,557 0.12 Dow, Inc. USD 126 3,339 0.03 HeICO Corp. USD 152 12,557 0.12 Dow, Inc. USD 170 15,332 0.08 Heico Group, Inc. USD 150 152 21,557 0.12 Dow, Inc. USD 170 15,332 0.08 Heico Group, Inc. USD 150 152 21,557 0.12 Dow, Inc. USD 170 15,332 0.08 Heico Group, Inc. USD 150 150 150 150 150 150 150 150 150 150	Dell Technologies, Inc. 'C'				0.03	Gilead Sciences, Inc.			59,151	0.32
Devon Energy Corp.  USD 359 22.082 0.12 Gobaddy, Inc. 'A' USD 85 6.360 0.03 Devocm, Inc.  USD 12 24.007 0.13 Goldman Sachs Group, Inc. (The) USD 186 6.369 0.34 Diamondback Energy, Inc.  USD 158 15,843 0.07 Halliburton Co.  USD 499 19,636 0.11 USD 150 14,675 0.08 Halliburton Co.  USD 150 14,675 0.08 Halliburton Co.  USD 110 6.096 0.03 Halbron, Inc.  USD 111 16 16,407 0.09 Healthpeak Properties, Inc., REIT USD 295 7,396 0.04 Dominion Energy, Inc.  USD 116 16,407 0.09 Healthpeak Properties, Inc., REIT USD 295 7,396 0.04 Dominion Fizza, Inc.  USD 19 6.582 0.04 HEICO Corp. 'A' USD 38 4,554 0.02 Dominion Fizza, Inc.  USD 19 6.582 0.04 Heiro Corp. 'A' USD 38 4,554 0.02 Dominion Fizza, Inc.  USD 17 10,427 0.06 Hearthpeak Properties, Inc., USD 15 18,275 0.15 0.00 Dominion, Inc.  USD 37 10,427 0.06 Hearthpeak Properties Co.  USD 387 19,501 0.11 Hess Corp.  USD 172 15,332 0.08 Hewlett Packard Enterprise Co.  USD 172 15,332 0.08 Hewlett Packard Enterprise Co.  USD 173 18,736 0.10 Home Depot, Inc. (The)  USD 150 174 5,391 0.09 0.09 Dupont de Nemours, Inc.  USD 150 111 4,251 0.02 Home Depot, Inc. (The)  USD 150 174 5,291 0.03 Dupont de Nemours, Inc.  USD 150 111 4,251 0.02 Home Depot, Inc. (The)  USD 150 172 15,332 0.08 Hewlett Packard Enterprise Co.  USD 111 4,251 0.02 Home Depot, Inc. (The)  USD 159 7,79 0.04 Dupont de Nemours, Inc.  USD 159 7,79 0.04 Dupont de Nemours, Inc.  USD 160 175 178,29 0.09 Dupont de Nemours, Inc.  USD 176 174 2,510 0.09 Hewlett Packard Enterprise Co.  USD 177 5,074 0.03 Home Depot, Inc. (The)  USD 180 177 18,29 0.09 Dupont de Nemours, Inc.  USD 190 190 190 190 190 190 190 190 190 190										0.08
Dexcom, Inc.										
Digital Realty Trust, Inc., REIT USD 158 15,843 0.09 Harffor Financial Services Group, Inc.  USD 175 13,270 0.07 DocuSign, Inc. 'A' USD 110 6,096 0.03 Hasbro, Inc. USD 171 4,332 0.02 Dollar General Corp. USD 124 30,535 0.16 HcA Healthcare, Inc. USD 117 28,075 0.15 Dollar Tree, Inc. USD 116 16,407 0.09 Healthbeak Properties, Inc., REIT USD 295 7,396 0.04 Dominion Energy, Inc. USD 184 7,030 0.04 HEICO Corp. USD 22 3,380 0.02 DoorDash, Inc. 'A' USD 144 7,030 0.04 HEICO Corp. 'USD 38 45,54 0.02 DoorDash, Inc. 'A' USD 77 10,427 0.06 Hershey Co. The) Dow, Inc. USD 387 19,501 0.11 Dow, Inc. USD 172 15,332 0.08 Hewlett Packard Enterprise Co. USD 172 15,332 0.08 Hewlett Packard Enterprise Co. USD 173 10,249 0.06 Duke Energy Corp. USD 23 43,565 0.24 Hologic, Inc. USD 181 18,787 0.10 Duke Energy Corp. USD 273 18,736 0.10 Home Depot, Inc. (The) USD 181 18,828 0.10 Dux Energy Corp. USD 174 4,510 0.00 Dux Energy Corp. USD 175 13,332 0.08 Hewlett Packard Enterprise Co. USD 177 11,284 0.06 DXC Technology Co. USD 178 13,339 0.02 Homework Inc. (USD 177 12,427 0.06 East West Bancorp, Inc. USD 179 14,251 0.02 Das East West Bancorp, Inc. USD 179 178,29 0.06 DXC Technology Co. USD 166 5,375 0.03 Homework Inc. USD 177 1,242 0.04 Eastman Chemical Co. USD 186 6 5,375 0.03 Homework Inc. USD 298 12,358 0.07 Hell Theorems Inc. USD 179 178,09 0.00 Das Hearth Packard Enterprise Co. USD 180 180 180 180 180 180 180 180 180 180	Dexcom, Inc.									0.34
Discover Financial Services USD 150 14,675 0.08 (The) USD 175 13,270 0.07 DocuSign, Inc. 'A' USD 110 6,6.996 0.03 Hasbro, Inc. USD 71 4,332 0.02 Dollar General Corp. USD 124 30,535 0.16 HcA Healthcare, Inc. USD 117 28,075 0.15 Dollar Tree, Inc. USD 116 16,407 0.09 Healthpeak Properties, Inc., REIT USD 295 7,396 0.04 Dominion Energy, Inc. USD 458 28,085 0.15 HEICO Corp. USD 22 3,380 0.02 Dominion's Pizza, Inc. USD 19 6,582 0.04 HEICO Corp. USD 38 4,554 0.02 Dominion's Pizza, Inc. USD 19 6,582 0.04 HEICO Corp. USD 38 4,554 0.02 Dominion's Pizza, Inc. USD 19 6,582 0.04 HEICO Corp. USD 74 5,910 0.03 Dover Corp. USD 77 10,427 0.06 Hershey Co. (The) USD 81 18,757 0.10 Dov. Inc. USD 387 19,501 0.11 Hess Corp. USD 5152 21,557 0.12 Dow. Inc. USD 387 19,501 0.11 Hess Corp. USD 152 21,557 0.12 Dow. Inc. USD 172 15,332 0.08 Hewlett Packard Enterprise Co. USD 707 11,284 0.06 DIF Energy Corp. USD 423 43,565 0.24 Hollogic, Inc. USD 137 10,249 0.06 DuPont de Nemours, Inc. USD 273 18,736 0.10 Home Depot, Inc. (The) USD 137 10,249 0.06 DUX Technology Co. USD 166 3,339 0.02 Honeywell International, Inc. USD 369 79,077 0.43 East West Bancorp, Inc. USD 77 5,074 0.03 Hornel Foods Corp. USD 166 13,365 0.04 Honeywell International, Inc. USD 369 79,077 0.43 Eastman Chemical Co. USD 298 12,358 0.07 Hollow Holdings, Inc. USD 369 79,077 0.43 Eastman Chemical Co. USD 298 12,358 0.07 Hollow Holle, Inc. 'B' USD 393 6,308 0.03 Eaton Corp. pic USD 245 2,994 0.02 Honeywell International, Inc. USD 366 13,059 0.07 Edwards Lifescinects Corp. USD 340 25,367 0.11 Hubbell, Inc. 'B' USD 39 1,1181 0.06 Edwards Lifescinects Corp. USD 340 25,367 0.11 Hubbell, Inc. 'B' USD 39 1,1181 0.06 Entergy Corp. USD 323 41,835 0.03 Illumina, Inc. USD 86 17,389 0.09 Entergy Corp. USD 323 41,835 0.03 Illumina, Inc. USD 86 17,389 0.09 Entergy Corp. USD 323 41,835 0.03 Illumina, Inc. USD 223 11,652 0.08 Entergy Corp. USD 323 41,835 0.03 Illumina, Inc. USD 223 11,652 0.08	Diamondback Energy, Inc.	USD	97					499	19,636	0.11
DocuSign, Inc. 'A'         USD         110         6,096         0.03         Hasbro, Inc.         USD         71         4,332         0.02           Dollar General Corp.         USD         124         30,535         0.16         HCA Healthcare, Inc.         USD         117         28,075         0.15           Domlino's Pizza, Inc.         USD         458         28,085         0.15         HEICO Corp.         USD         22         3,380         0.02           Domino's Pizza, Inc.         USD         19         6,582         0.04         HEICO Corp. 'A'         USD         22         3,380         0.02           Dower Corp.         USD         144         7,030         0.04         Hency Schein, Inc.         USD         74         5,910         0.03           Dower Corp.         USD         77         10,427         0.06         Hershey Co. (The)         USD         74         5,910         0.03           Dow, Inc.         USD         137         10,427         0.06         Hershey Co. (The)         USD         81         18,757         0.10           DR Horton, Inc.         USD         172         15,332         0.08         Hewlett Packard Enterprise Co.         USD         152							IISD	175	13 270	0.07
Dollar Tree, Inc.  USD  116 16,407 0.09  Healthpeak Properties, Inc., REIT  USD  22 3,380 0.02  Dominion Energy, Inc.  USD  458 28,085 0.15  HEICO Corp., USD  22 3,380 0.02  Dominion's Pizza, Inc.  USD  458 28,085 0.15  HEICO Corp., USD  22 3,380 0.02  Dominion's Pizza, Inc.  USD  38 4,554 0.02  Dominion's Pizza, Inc.  USD  38 4,554 0.02  Domorbash, Inc. 'A'  USD  387 19,501 0.11  Hess Corp.  USD  387 19,501 0.11  USD  387 19,501 0.11  USD  387 19,501 0.11  USD  387 11,284 0.06  DIF Energy Cor.  USD  USD  172 15,332 0.08  Hewlett Packard Enterprise Co.  USD  USD  173 11,284 0.06  DIF Energy Cor.  USD  USD  174 12,488 0.07  Hilton Worldwide Holdings, Inc.  USD  USD  USD  USD  USD  USD  USD  US										0.02
Dominion Energy, Inc.  USD 488 28,085 0.15 HEICO Corp.  USD 22 3,380 0.02 Dominion Fireza, Inc.  USD 19 6,582 0.04 HEICO Corp. A' USD 38 4,554 0.02 Dominion's Pizza, Inc.  USD 144 7,030 0.04 Henry Schein, Inc.  USD 38 4,554 0.02 Dover Corp.  USD 77 10,427 0.06 Hershey Co. (The) USD 81 18,757 0.10 Dow, Inc.  USD 387 19,501 0.11 Hess Corp.  USD 172 15,332 0.08 Hewlett Packard Enterprise Co.  USD 172 15,332 0.08 Hewlett Packard Enterprise Co.  USD 173 12,458 0.07 Hewlett Packard Enterprise Co.  USD 170 11,284 0.06 DIF Energy Corp.  USD 423 43,565 0.24 Hologic, Inc.  USD 137 10,249 0.06 DUPont de Nemours, Inc.  USD 273 18,736 0.10 DNC Technology Co.  USD 126 3,339 0.02 Honeywell International, Inc.  USD 369 79,077 0.43 Dover Corp.  USD 111 4,251 0.02 Honeywell International, Inc.  USD 369 79,077 0.43 East West Bancorp, Inc.  USD 159 125 14,225 0.08 East West Bancorp, Inc.  USD 298 12,358 0.07 Horward Foods Corp.  USD 136 19,796 0.11 Hubbell, Inc. 'B' USD 30 7,040 0.04 Edwards Lifesciences Corp.  USD 343 158,409 0.06 Humington Ingalls Industries, Inc.  USD 37 7,807 0.04 Edwards Lifesciences Corp.  USD 343 158,409 0.06 IDEX Corp.  USD 152 21,557 0.12 IDEX Laboratories, Inc.  USD 46 13,059 0.07 Ediling And The Corp.  USD 298 12,358 0.07 Hy, Inc.  USD 37 7,807 0.04 Edwards Lifesciences Corp.  USD 340 25,367 0.14 Hubbell, Inc. 'B' USD 30 7,040 0.04 Edwards Lifesciences Corp.  USD 343 158,409 0.06 IDEX Corp.  USD 446 18,766 0.10 Enhergis, Inc.  USD 35 31,220 0.11 Illimits Tool Works, Inc.  USD 46 18,766 0.10 Enhergis, Inc.  USD 36 17,389 0.09 Entergry, Inc.  USD 323 41,835 0.23 Illimina, Inc.  USD 323 11,655 0.00	Dollar General Corp.						USD	117		0.15
Domino's Pizza, Inc.  USD 19 6,582 0.04 HEICO Corp. 'A'  USD 38 4,554 0.02  DoorDash, Inc. 'A'  USD 77 10,427 0.06  Hershey Co. (The)  USD 81 18,757 0.10  Dow, Inc.  USD 387 19,501 0.11  Dow, Inc.  USD 387 19,501 0.11  Dow, Inc.  USD 172 15,332 0.08  Hewlett Packard Enterprise Co.  USD 106 12,458 0.07  Hilton Worldwide Holdings, Inc.  USD 137 10,249 0.06  DIVE Energy Corp.  USD 126 3,339 0.02  DIVE Technology Co.  USD 126 3,339 0.02  DYNatrace, Inc.  USD 177 5,074 0.03  Hornel Foods Corp.  USD 152 21,557  USD 163 177,829 0.096  DXC Technology Co.  USD 177 5,074 0.03  Hornel Foods Corp.  USD 159 7,242 0.04  Honewheld International, Inc.  USD 159 7,242 0.04  Hornel Foods Corp.  USD 159 7,242 0.04  Howmet Aerospace, Inc.  USD 298 12,358 0.07  Hy. Inc.  USD 202 7,861 0.04  Hy. Inc.  USD 202 7,861 0.04  HubSpot, Inc.  USD 27 7,807 0.04  Humington Ingalls Industries, Inc.  USD 27 7,807 0.04  Humington Ingalls Industries, Inc.  USD 27 7,807 0.04  Humington Ingalls Industries, Inc.  USD 26 11,336 0.10  Electronic Arith, Inc.  USD 26 13,339 0.09  Humington Ingalls Industries, Inc.  USD 26 15,375 0.12  Humington Ingalls Industries, Inc.  USD 26 5,375 0.13  Illumina, Inc.  USD 26 11,386 0.10  Entergy Corp.  USD 169 0.33  Humina, Inc.  USD 26 11,386 0.10  Electronic Arithman, Inc.  USD 26 11,386 0.10  Electronic Arithman Inc.  USD 26 11,386 0.10  Electronic Arithman Inc.  USD 26 11,386 0.10  Electronic Arithman Inc.  USD 26 5,375 0.12  Illumina, Inc.  USD 26 0.11  Electronic Arithman Inc.  USD 27 1,807 0.04  DOWN Inc.  USD	Dollar Tree, Inc.									
Door Dash, Inc. 'A'   USD   144   7,330   0.04   Henry Schein, Inc.   USD   74   5,910   0.03	07.									
Dover Corp.         USD         77         10,427         0.06         Hershey Co. (The)         USD         81         18,757         0.10           Dow, Inc.         USD         387         19,501         0.11         Hess Corp.         USD         152         21,557         0.12           DR Horton, Inc.         USD         172         15,332         0.08         Hewlett Packard Enterprise Co.         USD         707         11,284         0.06           DTE Energy Co.         USD         106         12,458         0.07         Hilton Worldwide Holdings, Inc.         USD         149         18,828         0.10           DuPont de Nemours, Inc.         USD         273         18,736         0.10         Hole perot, Inc. (The)         USD         156         37,7829         0.06           DXC Technology Co.         USD         126         3,339         0.02         Honeywell International, Inc.         USD         369         79,077         0.43           Dynatrace, Inc.         USD         111         4,251         0.02         Horizon Therapeutics plc         USD         159         72,42         0.04           East West Bancorp, Inc.         USD         57         5,074         0.03         Horrelapeutics						•				0.03
DR Horton, Inc.  USD  172  15,332  0.08  Hewlett Packard Enterprise Co.  USD  707  11,284  0.06  DTE Energy Co.  USD  106  12,458  0.07  Hillton Worldwide Holdings, Inc.  USD  137  10,249  0.06  DuPont de Nemours, Inc.  USD  137  10,249  0.06  DuPont de Nemours, Inc.  USD  DXC Technology Co.  DVSD  111  4,251  0.02  Hone Pepot, Inc. (The)  USD  159  169  177,829  0.96  DVSD  160  178,829  0.96  DVSD  178,829  0.96  DVSD  187,829  0.96  DVSD  187,829  0.96  DVSD  187,829  0.96  DVSD  187,829  0.96  DVSD  188,736  0.10  Home Depot, Inc. (The)  USD  190  190  190  190  191  190  190  19	Dover Corp.	USD	77							0.10
DTE Energy Co.  USD  106  12,458  0.07  Hilton Worldwide Holdings, Inc.  USD  149  18,828  0.10  Duke Energy Corp.  USD  137  10,249  0.06  DUPONT de Nemours, Inc.  USD  137  10,249  0.06  DXC Technology Co.  USD  126  3,339  0.02  Honeywell International, Inc.  USD  1369  79,077  0.43  Dynatrace, Inc.  USD  111  4,251  0.02  Horizon Therapeutics plc  USD  125  14,225  0.08  East West Bancorp, Inc.  East Mest Bancorp, Inc.  USD  66  5,375  0.03  Hormel Foods Corp.  Howhere Aerospace, Inc., REIT  USD  393  6,308  0.03  Eaton Corp. plc  USD  298  12,358  0.07  HP, Inc.  USD  486  13,059  0.07  Edolab, Inc.  Edwards Lifesciences Corp.  USD  340  25,367  0.14  HubSpot, Inc.  USD  70  35,853  0.19  Elanco Animal Health, Inc.  USD  40  USD  419  18,828  0.10  0.10  Home Depot, Inc. (The)  USD  137  10,249  0.06  Home Depot, Inc. (The)  USD  369  79,077  0.43  Dynatrace, Inc.  USD  125  14,225  0.08  Hormel Foods Corp.  USD  159  7,242  0.04  Hownet Aerospace, Inc., REIT  USD  393  6,308  0.03  Eaton Corp. plc  USD  298  12,358  0.07  HP, Inc.  USD  486  13,059  0.07  Edolab, Inc.  Edwards Lifesciences Corp.  USD  30  7,040  0.04  Edwards Lifesciences Corp.  USD  340  25,367  0.14  Humana, Inc.  USD  79  35,853  0.19  Elanco Animal Health, Inc.  USD  79  31,181  0.06  Electronic Arts, Inc.  USD  43  158,409  0.86  IDEX Corp.  USD  41  9,362  0.05  Emerson Electric Co.  USD  43  158,409  0.86  IDEX Corp.  USD  46  18,766  0.10  Enphase Energy, Inc.  USD  46  18,766  0.10  Entlegris, Inc.  USD  86  17,389  0.09  Entlegris, Inc.  USD  10,04  Entlegris, Inc.  USD	Dow, Inc.									
Duke Energy Corp.         USD         423         43,665         0.24         Hologic, Inc.         USD         137         10,249         0.06           DuPont de Nemours, Inc.         USD         273         18,736         0.10         Home Depot, Inc. (The)         USD         563         177,829         0.96           DXC Technology Co.         USD         126         3,339         0.02         Honeywell International, Inc.         USD         369         79,077         0.43           Dynatrace, Inc.         USD         111         4,251         0.02         Horizon Therapeutics plc         USD         125         14,225         0.08           East West Bancorp, Inc.         USD         77         5,074         0.03         Hornel Foods Corp.         USD         159         7,242         0.04           East Mest Bancorp, Inc.         USD         166         5,375         0.03         Hornel Foods Corp.         USD         159         7,242         0.04           East Mest Bancorp, Inc.         USD         199         34,372         0.19         Hownet Aerospace, Inc.         USD         393         6,308         0.03           East Mest Bancorp, Inc.         USD         298         12,358         0.07										
DXC Technology Co.         USD         126         3,339         0.02         Honeywell International, Inc.         USD         369         79,077         0.43           Dynatrace, Inc.         USD         111         4,251         0.02         Horizon Therapeutics plc         USD         125         14,225         0.08           East West Bancorp, Inc.         USD         77         5,074         0.03         Hormel Foods Corp.         USD         159         7,242         0.04           East man Chemical Co.         USD         66         5,375         0.03         Host Hotels & Resorts, Inc., REIT         USD         393         6,308         0.03           Eaton Corp. plc         USD         219         34,372         0.19         Hownet Aerospace, Inc.         USD         202         7,961         0.04           eBay, Inc.         USD         298         12,358         0.07         HP, Inc.         USD         486         13,059         0.07           Eclolab, Inc.         USD         136         19,796         0.11         Hubspot, Inc.         USD         30         7,040         0.04           Edwards Lifesciences Corp.         USD         340         25,367         0.14         Humana, Inc.	Duke Energy Corp.					9 .				0.06
Dynatrace, Inc.         USD         111         4,251         0.02         Horizon Therapeutics plc         USD         125         14,225         0.08           East West Bancorp, Inc.         USD         77         5,074         0.03         Horren Foods Corp.         USD         159         7,242         0.04           Eastman Chemical Co.         USD         66         5,375         0.03         Host Hotels & Resorts, Inc., REIT         USD         393         6,308         0.03           Eaton Corp. plc         USD         219         34,372         0.19         Howmet Aerospace, Inc.         USD         202         7,961         0.04           eBay, Inc.         USD         136         19,796         0.11         Hubbell, Inc. 'B'         USD         30         7,040         0.04           Edison International         USD         210         13,360         0.07         HubSpot, Inc.         USD         27         7,807         0.04           Edwards Lifesciences Corp.         USD         340         25,367         0.14         Humana, Inc.         USD         70         35,853         0.19           Elanco Animal Health, Inc.         USD         245         2,994         0.02         Huntington Ingalls I	DuPont de Nemours, Inc.									0.96
East West Bancorp, Inc.  USD 77 5,074 0.03 Hormel Foods Corp.  USD 159 7,242 0.04  Eastman Chemical Co.  USD 66 5,375 0.03 Host Hotels & Resorts, Inc., REIT USD 393 6,308 0.03  Eaton Corp. plc USD 219 34,372 0.19 Howmet Aerospace, Inc.  USD 298 12,358 0.07 HP, Inc.  USD 486 13,059 0.07  Ecolab, Inc.  USD 30 7,040 0.04  Edison International USD 210 13,360 0.07 Hubbell, Inc. 'B' USD 30 7,040 0.04  Edwards Lifesciences Corp.  USD 340 25,367 0.14 Humana, Inc.  USD 245 2,994 0.02 Huntington Bancshares, Inc.  USD 70 35,853 0.19  Eletcrionic Arts, Inc.  Eletcronic Arts, Inc.  USD 433 158,409 0.86 IDEX Corp.  USD 325 31,220 0.17 IDEXX Laboratories, Inc.  USD 46 18,766 0.10  Enphase Energy, Inc.  USD 82 5,378 0.03  Illimois Tool Works, Inc.  USD 86 17,389 0.08  Entegris, Inc.  USD 82 1,600 0.07 Incyte Corp.  USD 10 18,112 0.04  EOG Resources, Inc.  USD 223 11,652 0.06  EOG Resources, Inc.  USD 223 11,652 0.06										
Eastman Chemical Co. USD 66 5,375 0.03 Host Hotels & Resorts, Inc., REIT USD 393 6,308 0.03 Eaton Corp. plc USD 219 34,372 0.19 Howmet Aerospace, Inc. USD 202 7,961 0.04 eBay, Inc. USD 298 12,358 0.07 HP, Inc. USD 486 13,059 0.07 Ecolab, Inc. USD 136 19,796 0.11 Hubbell, Inc. 'B' USD 30 7,040 0.04 Edison International USD 210 13,360 0.07 HubSpot, Inc. USD 27 7,807 0.04 Edwards Lifesciences Corp. USD 340 25,367 0.14 Humana, Inc. USD 70 35,853 0.19 Elanco Animal Health, Inc. USD 245 2,994 0.02 Huntington Bancshares, Inc. USD 793 11,181 0.06 Electronic Arts, Inc. USD 433 158,409 0.86 IDEX Corp. USD 325 31,220 0.17 IDEXX Laboratories, Inc. USD 46 18,766 0.10 Enphase Energy, Inc. USD 82 5,378 0.03 Illumina, Inc. USD 86 17,389 0.08 Entergy, Inc. USD 82 5,378 0.03 Illumina, Inc. USD 86 17,389 0.08 Entergy Corp. USD 112 12,600 0.07 Incyte Corp. USD 101 8,112 0.04 EOG Resources, Inc. USD 223 11,652 0.06										0.04
eBay, Inc.         USD         298         12,358         0.07         HP, Inc.         USD         486         13,059         0.07           Ecolab, Inc.         USD         136         19,796         0.11         Hubbell, Inc. 'B'         USD         30         7,040         0.04           Edison International         USD         210         13,360         0.07         HubSpot, Inc.         USD         27         7,807         0.04           Edwards Lifesciences Corp.         USD         340         25,367         0.14         Humana, Inc.         USD         70         35,853         0.19           Elanco Animal Health, Inc.         USD         245         2,994         0.02         Huntington Bancshares, Inc.         USD         793         11,181         0.06           Electronic Arts, Inc.         USD         144         17,594         0.10         Huntington Ingalls Industries, Inc.         USD         793         11,181         0.06           Eli Lilly & Co.         USD         433         158,409         0.86         IDEX Corp.         USD         41         9,362         0.05           Emerson Electric Co.         USD         325         31,220         0.17         IDEXX Laboratories, Inc.	Eastman Chemical Co.							393		0.03
Ecolab, Inc.         USD         136         19,796         0.11         Hubbell, Inc. 'B'         USD         30         7,040         0.04           Edison International         USD         210         13,360         0.07         HubSpot, Inc.         USD         27         7,807         0.04           Edwards Lifesciences Corp.         USD         340         25,367         0.14         Humana, Inc.         USD         70         35,853         0.19           Elanco Animal Health, Inc.         USD         245         2,994         0.02         Huntington Bancshares, Inc.         USD         793         11,181         0.06           Electronic Arts, Inc.         USD         144         17,594         0.10         Huntington Ingalls Industries, Inc.         USD         22         5,075         0.03           Eli Lilly & Co.         USD         433         158,409         0.86         IDEX Corp.         USD         41         9,362         0.05           Emerson Electric Co.         USD         325         31,220         0.17         IDEXX Laboratories, Inc.         USD         46         18,766         0.10           Entegris, Inc.         USD         82         5,378         0.03         Illimois Tool Works,	Eaton Corp. plc									0.04
Edison International USD 210 13,360 0.07 HubSpot, Inc. USD 27 7,807 0.04 Edwards Lifesciences Corp. USD 340 25,367 0.14 Humana, Inc. USD 70 35,853 0.19 Elanco Animal Health, Inc. USD 245 2,994 0.02 Huntington Bancshares, Inc. USD 793 11,181 0.06 Electronic Arts, Inc. USD 433 158,409 0.86 IDEX Corp. USD 431 158,409 0.86 IDEX Corp. USD 41 9,362 0.05 Emerson Electric Co. USD 325 31,220 0.17 IDEXX Laboratories, Inc. USD 46 18,766 0.10 Enphase Energy, Inc. USD 82 5,378 0.03 Illumina, Inc. USD 85 154 33,926 0.18 Entergy, Corp. USD 112 12,600 0.07 Incyte Corp. USD 86 17,389 0.09 Entergy Corp. USD 112 12,600 0.07 Incyte Corp. USD 101 8,112 0.04 EOG Resources, Inc. USD 223 11,652 0.06										
Edwards Lifesciences Corp.  USD 340 25,367 0.14 Humana, Inc.  USD 70 35,853 0.19  Elanco Animal Health, Inc.  USD 245 2,994 0.02 Huntington Bancshares, Inc.  USD 793 11,181 0.06  Electronic Arts, Inc.  USD 245 2,994 0.10 Huntington Ingalls Industries, Inc.  USD 22 5,075 0.03  Eli Lilly & Co.  USD 433 158,409 0.86 IDEX Corp.  USD 41 9,362 0.05  Emerson Electric Co.  USD 325 31,220 0.17 IDEXX Laboratories, Inc.  USD 46 18,766 0.10  Entegris, Inc.  USD 46 18,766 0.18  Entegris, Inc.  USD 82 5,378 0.03 Illumina, Inc.  USD 85 17,389 0.09  Entergy Corp.  USD 10 8,112 0.04  EOG Resources, Inc.  USD 22 11,652 0.06	Edison International									0.04
Elanco Animal Health, Inc.       USD       245       2,994       0.02       Huntington Bancshares, Inc.       USD       793       11,181       0.06         Electronic Arts, Inc.       USD       144       17,594       0.10       Huntington Ingalls Industries, Inc.       USD       22       5,075       0.03         Eli Lilly & Co.       USD       433       158,409       0.86       IDEX Corp.       USD       41       9,362       0.05         Emerson Electric Co.       USD       325       31,220       0.17       IDEXX Laboratories, Inc.       USD       46       18,766       0.10         Entegris, Inc.       USD       75       19,872       0.11       Illinois Tool Works, Inc.       USD       154       33,926       0.18         Entegris, Inc.       USD       82       5,378       0.03       Illumina, Inc.       USD       86       17,389       0.09         Entergy Corp.       USD       112       12,600       0.07       Incyte Corp.       USD       101       8,112       0.04         EOG Resources, Inc.       USD       323       41,835       0.23       Ingersoll Rand, Inc.       USD       223       11,652       0.06	Edwards Lifesciences Corp.			25,367		Humana, Inc.	USD	70	35,853	0.19
Eli Lilly & Co. USD 433 158,409 0.86 IDEX Corp. USD 41 9,362 0.05 Emerson Electric Co. USD 325 31,220 0.17 IDEXX Laboratories, Inc. USD 46 18,766 0.10 Enphase Energy, Inc. USD 75 19,872 0.11 Illinois Tool Works, Inc. USD 154 33,926 0.18 Entegris, Inc. USD 82 5,378 0.03 Illumina, Inc. USD 86 17,389 0.09 Entergy Corp. USD 112 12,600 0.07 Incyte Corp. USD 101 8,112 0.04 EOG Resources, Inc. USD 323 41,835 0.23 Ingersoll Rand, Inc. USD 223 11,652 0.06	Elanco Animal Health, Inc.	USD	245							0.06
Emerson Electric Co.         USD         325         31,220         0.17         IDEXX Laboratories, Inc.         USD         46         18,766         0.10           Enphase Energy, Inc.         USD         75         19,872         0.11         Illinois Tool Works, Inc.         USD         154         33,926         0.18           Entegris, Inc.         USD         82         5,378         0.03         Illumina, Inc.         USD         86         17,389         0.09           Entergy Corp.         USD         112         12,600         0.07         Incyte Corp.         USD         101         8,112         0.04           EOG Resources, Inc.         USD         323         41,835         0.23         Ingersoll Rand, Inc.         USD         223         11,652         0.06										
Enphase Energy, Inc.         USD         75         19,872         0.11         Illinois Tool Works, Inc.         USD         154         33,926         0.18           Entegris, Inc.         USD         82         5,378         0.03         Illumina, Inc.         USD         86         17,389         0.09           Entergy Corp.         USD         112         12,600         0.07         Incyte Corp.         USD         101         8,112         0.04           EOG Resources, Inc.         USD         323         41,835         0.23         Ingersoll Rand, Inc.         USD         223         11,652         0.06										0.05
Entergy Corp. USD 112 12,600 0.07 Incyte Corp. USD 101 8,112 0.04 EOG Resources, Inc. USD 323 41,835 0.23 Ingersoll Rand, Inc. USD 223 11,652 0.06	Enphase Energy, Inc.					Illinois Tool Works, Inc.	USD	154	33,926	0.18
EOG Resources, Inc. USD 323 41,835 0.23 Ingersoll Rand, Inc. USD 223 11,652 0.06	Entegris, Inc.									0.09
										0.04
	EPAM Systems, Inc.	USD	323	10,488	0.23		USD	38	11,187	0.06

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Intel Corp. Intercontinental Exchange, Inc.	USD	2,268	59,943 31,495	0.32 0.17	Monster Beverage Corp.	USD	209	21,220 24,240	0.11 0.13
International Business Machines Corp.	USD USD	307 497	70,022	0.17	Moody's Corp. Morgan Stanley	USD USD	87 724	61,554	0.13
International Flavors & Fragrances, Inc.	USD	140	14,678	0.08	Mosaic Co. (The)	USD	187	8,204	0.04
International Paper Co.	USD	195	6,753	0.04	Motorola Solutions, Inc.	USD	92	23,709	0.13
Interpublic Group of Cos., Inc. (The) Intuit, Inc.	USD USD	214 155	7,128 60,329	0.04 0.33	MSCI, Inc. 'A' Nasdag, Inc.	USD USD	44 186	20,467 11,411	0.11
Intuit, inc. Intuitive Surgical, Inc.	USD	194	51,478	0.28	NetApp, Inc.	USD	119	7,147	0.04
Invesco Ltd.	USD	250	4,498	0.02	Netflix, Inc.	USD	245	72,246	0.39
Invitation Homes, Inc., REIT	USD	319	9,455	0.05	Neurocrine Biosciences, Inc.	USD	53	6,330	0.03
IQVIA Holdings, Inc. Iron Mountain, Inc., REIT	USD USD	102 160	20,899 7,976	0.11 0.04	Newmont Corp. News Corp. 'A'	USD USD	436 210	20,579 3,822	0.11
Jack Henry & Associates, Inc.	USD	40	7,022	0.04	News Corp. 'B'	USD	65	1,199	0.01
Jacobs Solutions, Inc.	USD	70	8,405	0.05	NextEra Energy, Inc.	USD	1,092	91,291	0.49
JB Hunt Transport Services, Inc. Jefferies Financial Group, Inc.	USD USD	46 101	8,021 3,462	0.04 0.02	NIKE, Inc. 'B' NiSource, Inc.	USD USD	692 223	80,971 6,115	0.44
JM Smucker Co. (The)	USD	59	9,349	0.02	Norfolk Southern Corp.	USD	127	31,295	0.03
Johnson & Johnson	USD	1,437	253,846	1.37	Northern Trust Corp.	USD	115	10,176	0.05
Johnson Controls International plc	USD	378	24,192	0.13	Northrop Grumman Corp.	USD	80	43,649	0.24
JPMorgan Chase & Co. <sup>1</sup> Juniper Networks, Inc.	USD USD	1,612 178	216,169 5,689	1.17 0.03	NRG Energy, Inc. Nucor Corp.	USD USD	127 141	4,041 18,585	0.02
Kellogg Co.	USD	141	10,045	0.05	NVIDIA Corp.	USD	1,368	199,920	1.08
Keurig Dr Pepper, Inc.	USD	467	16,653	0.09	NVR, Inc.	USD	2	9,225	0.05
KeyCorp	USD	513	8,936	0.05	Occidental Petroleum Corp.	USD	400	25,196	0.14
Keysight Technologies, Inc. Kimberly-Clark Corp.	USD USD	98 185	16,765 25,114	0.09 0.14	Okta, Inc. 'A' Old Dominion Freight Line, Inc.	USD USD	83 50	5,671 14,189	0.03
Kimco Realty Corp., REIT	USD	340	7,201	0.04	Omnicom Group, Inc.	USD	112	9,136	0.05
Kinder Morgan, Inc.	USD	1,087	19,653	0.11	ON Semiconductor Corp.	USD	238	14,844	0.08
KKR & Co., Inc.	USD	317	14,715	0.08	ONEOK, Inc.	USD	246	16,162	0.09
KLA Corp. Kraft Heinz Co. (The)	USD USD	78 438	29,408 17,831	0.16 0.10	Oracle Corp. O'Reilly Automotive, Inc.	USD USD	845 34	69,070 28,697	0.37 0.16
Kroger Co. (The)	USD	456 358	15,960	0.10	Otis Worldwide Corp.	USD	229	17,933	0.10
L3Harris Technologies, Inc.	USD	105	21,862	0.12	Owens Corning	USD	51	4,350	0.02
Laboratory Corp. of America Holdings	USD	49	11,539	0.06	PACCAR, Inc.	USD	191	18,903	0.10
Lam Research Corp. Lamb Weston Holdings, Inc.	USD USD	75 79	31,523 7,059	0.17 0.04	Packaging Corp. of America Palantir Technologies, Inc. 'A'	USD USD	51 968	6,523 6,215	0.04
Las Vegas Sands Corp.	USD	181	8,701	0.05	Palo Alto Networks, Inc.	USD	165	23,024	0.12
Lear Corp.	USD	32	3,969	0.02	Paramount Global 'A'	USD	5	98	0.00
Leidos Holdings, Inc.	USD	75	7,889	0.04	Paramount Global 'B'	USD	278	4,693	0.03
Lennar Corp. 'A' Lennar Corp. 'B'	USD USD	140 8	12,670 598	0.07 0.00	Parker-Hannifin Corp. Paychex, Inc.	USD USD	71 176	20,661 20,339	0.11 0.11
Lennox International, Inc.	USD	18	4,306	0.02	Paycom Software, Inc.	USD	27	8,378	0.05
Liberty Broadband Corp. 'A'	USD	9	683	0.00	Paylocity Holding Corp.	USD	23	4,468	0.02
Liberty Broadband Corp. 'C'	USD	66	5,034	0.03 0.01	PayPal Holdings, Inc.	USD	627	44,655	0.24 0.74
Liberty Media CorpLiberty SiriusXM 'A' Liberty Media CorpLiberty SiriusXM 'C'	USD USD	41 84	1,612 3,287	0.01	PepsiCo, Inc. PerkinElmer, Inc.	USD USD	757 69	136,760 9,675	0.74
Lincoln National Corp.	USD	85	2,611	0.01	Pfizer, Inc.	USD	3,085	158,075	0.85
Live Nation Entertainment, Inc.	USD	79	5,509	0.03	PG&E Corp.	USD	885	14,390	0.08
LKQ Corp.	USD	139 128	7,424 62,271	0.04 0.34	Philip Morris International, Inc.	USD	852	86,231 27,061	0.47 0.15
Lockheed Martin Corp. Loews Corp.	USD USD	128	6,300	0.03	Phillips 66 Pinnacle West Capital Corp.	USD USD	260 62	4,714	0.13
Lowe's Cos., Inc.	USD	341	67,941	0.37	Pinterest, Inc. 'A'	USD	323	7,842	0.04
LPL Financial Holdings, Inc.	USD	44	9,511	0.05	Pioneer Natural Resources Co.	USD	131	29,919	0.16
Lucid Group, Inc. Lumen Technologies, Inc.	USD USD	323 523	2,206 2,730	0.01 0.01	Plug Power, Inc. PNC Financial Services Group, Inc. (The)	USD USD	288 222	3,563 35,063	0.02 0.19
LyondellBasell Industries NV 'A'	USD	140	11,624	0.06	Pool Corp.	USD	21	6,349	0.03
M&T Bank Corp.	USD	95	13,781	0.07	PPG Industries, Inc.	USD	129	16,220	0.09
Marathon Oil Corp.	USD	349	9,447	0.05	PPL Corp. Principal Financial Group, Inc.	USD	405	11,834	0.06
Marathon Petroleum Corp. Markel Corp.	USD USD	258 7	30,029 9,222	0.16 0.05	Principal Financial Gloup, Inc. Procter & Gamble Co. (The)	USD USD	125 1,302	10,490 197,331	0.06 1.07
MarketAxess Holdings, Inc.	USD	21	5,857	0.03	Progressive Corp. (The)	USD	322	41,767	0.23
Marriott International, Inc. 'A'	USD	148	22,036	0.12	Prologis, Inc., REIT	USD	507	57,154	0.31
Marsh & McLennan Cos., Inc. Martin Marietta Materials, Inc.	USD	273 34	45,176 11,491	0.24 0.06	Prudential Financial, Inc. PTC, Inc.	USD	202	20,091 6,962	0.11 0.04
Marvell Technology, Inc.	USD USD	469	17,372	0.06	Public Service Enterprise Group, Inc.	USD USD	58 274	16,788	0.04
Masco Corp.	USD	124	5,787	0.03	Public Storage, REIT	USD	87	24,377	0.13
Mastercard, Inc. 'A'	USD	467	162,390	0.88	PulteGroup, Inc.	USD	125	5,691	0.03
Match Group, Inc. McCormick & Co., Inc.	USD USD	153 138	6,348 11,439	0.03 0.06	Qorvo, Inc. QUALCOMM, Inc.	USD USD	56	5,076 67,723	0.03 0.37
McDonald's Corp.	USD	403	106,203	0.57	Quanta Services, Inc.	USD	616 79	11,258	0.06
McKesson Corp.	USD	78	29,259	0.16	Quest Diagnostics, Inc.	USD	63	9,856	0.05
Merck & Co., Inc.	USD	1,393	154,553	0.83	Raymond James Financial, Inc.	USD	106	11,326	0.06
Meta Platforms, Inc. 'A' MetLife, Inc.	USD USD	1,236 362	148,740 26,198	0.80 0.14	Raytheon Technologies Corp. Realty Income Corp., REIT	USD USD	808 345	81,543 21,883	0.44 0.12
Mettler-Toledo International, Inc.	USD	12	17,345	0.14	Regency Centers Corp., REIT	USD	345 85	5,313	0.12
MGM Resorts International	USD	175	5,868	0.03	Regeneron Pharmaceuticals, Inc.	USD	59	42,568	0.23
Microchip Technology, Inc.	USD	302	21,216	0.11	Regions Financial Corp.	USD	514	11,082	0.06
Micron Technology, Inc. Microsoft Corp.	USD	597 4.007	29,838 982,543	0.16 5.31	Reinsurance Group of America, Inc. 'A' Republic Services, Inc. 'A'	USD	37	5,257 14,576	0.03
Mid-America Apartment Communities,	USD	4,097	702,343	3.31	ResMed, Inc.	USD USD	113 81	14,576	0.08
Inc., REIT	USD	63	9,890	0.05	Rivian Automotive, Inc. 'A'	USD	301	5,547	0.03
Moderna, Inc.	USD	182	32,691	0.18	ROBLOX Corp. 'A'	USD	199	5,664	0.03
Molina Healthcare, Inc. Molson Coors Beverage Co. 'B'	USD USD	32 103	10,567 5,307	0.06 0.03	Rockwell Automation, Inc. Roku, Inc. 'A'	USD	63	16,227	0.09 0.01
Mondelez International, Inc. 'A'	USD	751	50,054	0.03	ROKU, INC. A Rollins, Inc.	USD USD	67 127	2,727 4,641	0.01
MongoDB, Inc. 'A'	USD	38	7,480	0.04	Roper Technologies, Inc.	USD	58	25,061	0.14
Monolithic Power Systems, Inc.	USD	25	8,840	0.05	Ross Stores, Inc.	USD	191	22,169	0.12

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Royal Caribbean Cruises Ltd.	USD	121	5,981	0.03	VMware, Inc. 'A'	USD	114	13,995	0.08
Royalty Pharma plc 'A'	USD	204	8,062	0.04	Voya Financial, Inc.	USD	53	3,259	0.02
S&P Global, Inc. Salesforce, Inc.	USD USD	183 550	61,294 72,925	0.33 0.39	Vulcan Materials Co. W R Berkley Corp.	USD USD	73 112	12,783 8,128	0.07 0.04
SBA Communications Corp., REIT 'A'	USD	59	16,538	0.09	Walgreens Boots Alliance, Inc.	USD	394	14,720	0.08
Schlumberger Ltd.	USD	779	41,645	0.22	Walmart, Inc.	USD	776	110,029	0.59
Seagate Technology Holdings plc	USD	106	5,577	0.03	Walt Disney Co. (The)	USD	1,002	87,054	0.47
Seagen, Inc. Sealed Air Corp.	USD	76 79	9,767 3,941	0.05 0.02	Waste Management, Inc. Waters Corp.	USD USD	205 33	32,160 11,305	0.17
SEI Investments Co.	USD USD	79 56	3,265	0.02	Watsco, Inc.	USD	33 18	4,489	0.00
Sempra Energy	USD	173	26,735	0.14	WEC Energy Group, Inc.	USD	173	16,220	0.09
Sensata Technologies Holding plc	USD	84	3,392	0.02	Wells Fargo & Co.	USD	2,094	86,461	0.47
ServiceNow, Inc. Sherwin-Williams Co. (The)	USD	111	43,098 30,853	0.23 0.17	Welltower, Inc., REIT West Pharmaceutical Services, Inc.	USD	260	17,043 9,649	0.09
Signature Bank	USD USD	130 35	4,033	0.17	Western Digital Corp.	USD USD	41 175	5,521	0.03
Simon Property Group, Inc., REIT	USD	180	21,146	0.11	Westinghouse Air Brake Technologies	435	17.5		
Sirius XM Holdings, Inc.	USD	385	2,248	0.01	Corp.	USD	100	9,981	0.05
Skyworks Solutions, Inc.	USD	88	8,019	0.04	Westlake Corp. Westrock Co.	USD USD	19 140	1,948 4,922	0.01
Snap, Inc. 'A' Snap-on, Inc.	USD USD	553 29	4,949 6,626	0.03 0.04	Weyerhaeuser Co., REIT	USD	404	12,524	0.03
Snowflake, Inc. 'A'	USD	157	22,536	0.12	Whirlpool Corp.	USD	30	4,244	0.02
Southern Co. (The)	USD	598	42,703	0.23	Williams Cos., Inc. (The)	USD	669	22,010	0.12
Southwest Airlines Co.	USD	326	10,976	0.06	Workday, Inc. 'A'	USD	110	18,406 8,909	0.10
Splunk, Inc. SS&C Technologies Holdings, Inc.	USD USD	82 120	7,059 6,247	0.04	WP Carey, Inc., REIT WW Grainger, Inc.	USD USD	114 25	13,906	0.03
Stanley Black & Decker, Inc.	USD	81	6,085	0.03	Wynn Resorts Ltd.	USD	57	4,701	0.03
Starbucks Corp.	USD	631	62,595	0.34	Xcel Energy, Inc.	USD	301	21,103	0.11
State Street Corp.	USD	202	15,669	0.08	Xylem, Inc.	USD	99	10,946	0.06
Steel Dynamics, Inc. STERIS plc	USD USD	92 55	8,988 10,158	0.05 0.05	Yum! Brands, Inc. Zebra Technologies Corp. 'A'	USD USD	155 28	19,852 7,179	0.11
Stryker Corp.	USD	185	45,231	0.03	Zillow Group, Inc. 'A'	USD	32	999	0.01
Sun Communities, Inc., REIT	USD	68	9,724	0.05	Zillow Group, Inc. 'C'	USD	90	2,899	0.02
SVB Financial Group	USD	32	7,364	0.04	Zimmer Biomet Holdings, Inc.	USD	115	14,663	0.08
Synchrony Financial	USD	248	8,149	0.04 0.14	Zions Bancorp NA Zoetis, Inc. 'A'	USD USD	82 256	4,031 37,517	0.02
Synopsys, Inc. Sysco Corp.	USD USD	84 279	26,820 21,330	0.14	Zoom Video Communications, Inc. 'A'	USD	121	8,197	0.04
T Rowe Price Group, Inc.	USD	123	13,414	0.07	ZoomInfo Technologies, Inc. 'A'	USD	149	4,486	0.02
Take-Two Interactive Software, Inc.	USD	87	9,059	0.05	Zscaler, Inc.	USD	46	5,147	0.03
Tapestry, Inc.	USD	132	5,027	0.03 0.05	United States total		-	17,962,332	97.02
Targa Resources Corp. Target Corp.	USD USD	124 253	9,114 37,707	0.05					97.02
TE Connectivity Ltd.	USD	175	20,090	0.11	Uruguay (31 December 2021: 0.00%) MercadoLibre, Inc.	USD	25	21,156	0.11
Teledyne Technologies, Inc.	USD	26	10,398	0.06	Mercadolibre, Inc.	นรม	- 25	21,130	0.11
Teleflex, Inc.	USD	26	6,490	0.04	Uruguay total			21,156	0.11
Teradyne, Inc. Tesla, Inc.	USD USD	86 1,475	7,512 181,691	0.04 0.98	Total investments in Equities		-		
Texas Instruments, Inc.	USD	499	82,445	0.45	Total investments in Equities		-	18,441,886	99.61
Texas Pacific Land Corp.	USD	3	7,033	0.04					
Textron, Inc.	USD	115	8,142 118.949	0.04					
Thermo Fisher Scientific, Inc. TJX Cos., Inc. (The)	USD USD	216 638	50,785	0.64 0.27					
T-Mobile US, Inc.	USD	328	45,920	0.25					
Tractor Supply Co.	USD	61	13,723	0.07					
Trade Desk, Inc. (The) 'A' TransDigm Group, Inc.	USD	245	10,983 17,630	0.06 0.10					
TransUnion	USD USD	28 106	6,016	0.03					
Travelers Cos., Inc. (The)	USD	129	24,186	0.13					
Trimble, Inc.	USD	136	6,876	0.04					
Truist Financial Corp.	USD	729	31,369	0.17					
Twilio, Inc. 'A' Tyler Technologies, Inc.	USD USD	96 23	4,700 7,415	0.03 0.04					
Tyson Foods, Inc. 'A'									
Uber Technologies, Inc.	USD	159	9,898	0.05					
	USD	1,096	27,104	0.15					
UDR, Inc., REIT	USD USD	1,096 168	27,104 6,507	0.15 0.04					
UDR, Inc., REIT UGI Corp.	USD USD USD	1,096 168 115	27,104 6,507 4,263	0.15 0.04 0.02					
UDR, Inc., REIT	USD USD USD USD	1,096 168 115 28	27,104 6,507 4,263 13,134	0.15 0.04					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc.	USD USD USD	1,096 168 115	27,104 6,507 4,263 13,134 69,990 6,786	0.15 0.04 0.02 0.07 0.38 0.04					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B'	USD USD USD USD USD USD USD	1,096 168 115 28 338 180 401	27,104 6,507 4,263 13,134 69,990 6,786 69,710	0.15 0.04 0.02 0.07 0.38 0.04 0.38					
UDR, Inc., REIT  UGI Corp.  Ulta Beauty, Inc.  Union Pacific Corp.  United Airlines Holdings, Inc.  United Parcel Service, Inc. 'B'  United Rentals, Inc.	USD USD USD USD USD USD USD USD	1,096 168 115 28 338 180 401 38	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07					
UDR, Inc., REIT  UGI Corp.  Ulta Beauty, Inc.  Union Pacific Corp.  United Airlines Holdings, Inc.  United Rentals, Inc.  United Rentals, Inc.  UnitedHealth Group, Inc.	USD USD USD USD USD USD USD USD USD	1,096 168 115 28 338 180 401 38 513	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. United Health Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B'	USD	1,096 168 115 28 338 180 401 38 513 134 35	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. United Health Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp	USD	1,096 168 115 28 338 180 401 38 513 134 35 743	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03 0.18					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. UnitedHealth Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp Vail Resorts, Inc.	USD	1,096 168 115 28 338 180 401 38 513 134 35 743 22	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402 5,244	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03 0.18					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. United Health Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp	USD	1,096 168 115 28 338 180 401 38 513 134 35 743 22 212	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402 5,244 26,894	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03 0.18					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. United Health Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp Vail Resorts, Inc. Valero Energy Corp. Veeva Systems, Inc. 'A' Ventas, Inc., REIT	USD	1,096 168 115 28 338 180 401 38 513 134 35 743 22	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402 5,244 26,894 12,426 9,911	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03 0.18 0.03 0.15 0.07					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. UnitedHealth Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp Vail Resorts, Inc. Valero Energy Corp. Veeva Systems, Inc. 'A' Ventas, Inc., REIT VeriSign, Inc.	USD	1,096 168 115 28 338 180 401 38 513 134 35 743 22 212 77 220 51	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402 5,244 26,894 12,426 9,911 10,477	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03 0.18 0.03 0.15 0.05					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. UnitedHealth Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp Vail Resorts, Inc. Valero Energy Corp. Veeva Systems, Inc. 'A' Vertas, Inc., REIT VeriSign, Inc. Verisk Analytics, Inc. 'A'	USD	1,096 168 115 28 338 180 401 38 513 134 35 743 22 212 77 220 51 86	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402 5,244 26,894 12,426 9,911 10,477 15,172	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 0.02 0.03 0.15 0.07 0.05 0.06 0.08					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. United Health Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp Vail Resorts, Inc. Valero Energy Corp. Veeva Systems, Inc. 'A' Ventas, Inc., REIT Verisign, Inc. Verisk Analytics, Inc. 'A' Verizon Communications, Inc.	USD	1,096 168 115 28 338 180 401 38 513 134 35 743 22 212 77 220 51 86 2,308	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402 5,244 26,894 12,426 9,911 10,477 15,172 90,935	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03 0.18 0.03 0.15 0.07 0.05 0.06					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. UnitedHealth Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp Vail Resorts, Inc. Valero Energy Corp. Veeva Systems, Inc. 'A' Vertas, Inc., REIT VeriSign, Inc. Verisk Analytics, Inc. 'A'	USD	1,096 168 115 28 338 180 401 38 513 134 35 743 22 212 77 220 51 86	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402 5,244 26,894 12,426 9,911 10,477 15,172	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03 0.18 0.03 0.15 0.07 0.05 0.06 0.08 0.49					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. Union Pacific Corp. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. United Health Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp Vail Resorts, Inc. Valero Energy Corp. Veeva Systems, Inc. 'A' Ventas, Inc., REIT VeriSign, Inc. Verisk Analytics, Inc. 'A' Vertzen Communications, Inc. VF Corp. Viatris, Inc.	USD	1,096 168 115 28 338 180 401 38 513 134 35 743 22 212 77 220 51 86 2,308 141 182 702	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402 5,244 26,894 12,426 9,911 10,477 15,172 90,935 40,718 5,025 7,813	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03 0.15 0.07 0.05 0.06 0.08 0.49 0.22					
UDR, Inc., REIT UGI Corp. Ulta Beauty, Inc. United Airlines Holdings, Inc. United Parcel Service, Inc. 'B' United Rentals, Inc. United Rentals, Inc. United Health Group, Inc. Unity Software, Inc. Universal Health Services, Inc. 'B' US Bancorp Vail Resorts, Inc. Valero Energy Corp. Veeva Systems, Inc. 'A' Ventas, Inc., REIT VeriSign, Inc. Verisk Analytics, Inc. 'A' Vertex Pharmaceuticals, Inc. VF Corp.	USD     USD	1,096 168 115 28 338 180 401 38 513 134 35 743 22 212 77 220 51 86 2,308 141 182	27,104 6,507 4,263 13,134 69,990 6,786 69,710 13,506 271,982 3,831 4,931 32,402 5,244 26,894 12,426 9,911 10,477 15,172 90,935 40,718 5,025	0.15 0.04 0.02 0.07 0.38 0.04 0.38 0.07 1.47 0.02 0.03 0.18 0.03 0.15 0.07 0.05 0.06 0.08 0.49					

Schedule of Investments (continued)

As at 31 December 2022

Financial Futures Contracts

Security Description	No. of Contracts	Currency	Underlying Exposure USD	Counterparty	Fair Value USD	% of Net Assets
United States (31 December 2021: (0.01)%) S&P 500 Micro E-Mini Index, 17/03/2023	3	USD	59,218	Citibank NA	(1,303)	(0.01)
United States total					(1,303)	(0.01)
Total unrealised loss on Financial Futures Contracts (31	December 2021: (0.01)%)				(1,303)	(0.01)

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash, cash collateral and margin cash			18,441,886 (1,303) 19,672	99.61 (0.01) 0.11
Cash equivalents  Undertaking for collective investment schemes (31 December 2021: 0.26%)	Currency	Quantity/ Nominal Value	44.40	0.25
JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>1</sup> <b>Total Cash equivalents</b> Other assets and liabilities	USD	46,694	46,694 46,694 6,862	0.25 0.25 0.04
Net asset value attributable to holders of redeemable participating shares		:	18,513,811	100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Collective investment schemes Other assets  Total Assets				99.56 0.25 0.19 100.00

<sup>&</sup>lt;sup>1</sup>A related party to the Fund.

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities					Switzerland CRISPR Therapeutics AG	USD	375	15,244	0.08
Bahamas OneSpaWorld Holdings Ltd.	USD	275	2,566	0.01	Switzerland total	435		15,244	0.08
Bahamas total			2,566	0.01	Thailand Fabrinet	USD	— 175	22,438	0.12
Bermuda Argo Group International Holdings Ltd.	USD	166	4,291	0.02	Thailand total	usp	1/5 —	22,438	0.12
Assured Guaranty Ltd. Axis Capital Holdings Ltd.	USD USD	289 366	17,993 19,826	0.09 0.10	United Kingdom		_		
Enstar Group Ltd. James River Group Holdings Ltd.	USD USD	66 179	15,249 3,743	0.08 0.02	Capri Holdings Ltd. Janus Henderson Group plc	USD USD	618 631	35,424 14,841	0.18 0.08
RenaissanceRe Holdings Ltd. SiriusPoint Ltd.	USD USD	209 408	38,504 2,407	0.20 0.01	LivaNova plc Myovant Sciences Ltd.	USD USD	255 208	14,163 5,608	0.07 0.03
Triton International Ltd.	USD	294 —	20,222	0.11	nVent Electric plc	USD	801 _	30,814	0.16
Bermuda total Canada		_	122,235	0.63	United Kingdom total  United States		_	100,850	0.52
AbCellera Biologics, Inc. Aurinia Pharmaceuticals, Inc.	USD USD	1,004 682	10,170 2,946	0.05 0.02	10X Genomics, Inc. 'A' 1Life Healthcare, Inc.	USD USD	460 807	16,762 13,485	0.09 0.07
IMAX Corp.	USD	220	3,225	0.02	1st Source Corp.	USD	82	4,353	0.02
Ivanhoe Electric, Inc. Mercer International, Inc.	USD USD	72 194	875 2,258	0.00	23andMe Holding Co. 'A' 2U, Inc.	USD USD	1,378 368	2,976 2,307	0.02 0.01
Resolute Forest Products, Inc.	USD	218	4,707	0.02	3D Systems Corp.	USD	630	4,662	0.02
Tilray Brands, Inc. '2' Uranium Energy Corp.	USD USD	2,938 1,753	7,903 6,802	0.04 0.04	8x8, Inc. 908 Devices, Inc.	USD USD	571 103	2,467 785	0.01 0.00
<del>-</del>	dJD				A O Smith Corp.	USD	617	35,317	0.18
Canada total		_	38,886	0.20	A10 Networks, Inc. AAON, Inc.	USD USD	306 201	5,089 15,139	0.03 0.08
Colombia Tecnoglass, Inc.	USD	96	2,954	0.02	AAR Corp.	USD	161	7,229	0.04
	dJD	_			Abercrombie & Fitch Co. 'A' ABM Industries, Inc.	USD USD	241 318	5,521 14,126	0.03 0.07
Colombia total		_	2,954	0.02	Academy Sports & Outdoors, Inc.	USD	384	20,175	0.10
Costa Rica Establishment Labs Holdings, Inc.	USD	106	6,959	0.04	Acadia Healthcare Co., Inc. ACADIA Pharmaceuticals, Inc.	USD USD	436 576	35,892 9,170	0.19 0.05
-	นวม	100 _			Acadia Realty Trust, REIT	USD	452	6,486	0.03
Costa Rica total		_	6,959	0.04	ACI Worldwide, Inc. Aclaris Therapeutics, Inc.	USD	543	12,489 3,859	0.06 0.02
Ireland Alkermes plc	USD	788	20,590	0.11	Acuity Brands, Inc.	USD USD	245 156	25,835	0.02
Cimpress plc	USD	95	2,623	0.01	Acushnet Holdings Corp.	USD	156	6,624	0.03
Perrigo Co. plc Prothena Corp. plc	USD USD	646 191	22,022 11,508	0.11	ACV Auctions, Inc. 'A' AdaptHealth Corp. 'A'	USD USD	564 365	4,630 7,015	0.02 0.04
	นวม	191			Adaptive Biotechnologies Corp.	USD	524	4,003	0.02 0.04
Ireland total		_	56,743	0.29	Addus HomeCare Corp. Adeia, Inc.	USD USD	76 496	7,561 4,702	0.04
Israel JFrog Ltd.	USD	290	6,186	0.03	Adient plc	USD	456	15,819	0.08
Mobileye Global, Inc. 'A'	USD	225	7,888	0.03	ADT, Inc. Adtalem Global Education, Inc.	USD USD	1,023 215	9,279 7,632	0.05 0.04
Playtika Holding Corp.	USD	434 _	3,693	0.02	ADTRAN Holdings, Inc. Advanced Drainage Systems, Inc.	USD	336	6,313 25,247	0.03 0.13
Israel total		_	17,767	0.09	Advanced Energy Industries, Inc. AdvanSix, Inc.	USD USD USD	308 179 134	15,355 5,095	0.08
Kazakhstan Freedom Holding Corp.	USD	80	4,658	0.02	Advantage Solutions, Inc. AECOM	USD USD	441 669	917 56,818	0.00
Kazakhstan total		_	4,658	0.02	Aerojet Rocketdyne Holdings, Inc. AeroVironment, Inc.	USD USD	364 119	20,359 10,194	0.11 0.05
Luxembourg Perimeter Solutions SA	USD	 727	6,645	0.03	AerSale Corp. Affiliated Managers Group, Inc.	USD USD	75 181	1,216 28,676	0.01 0.15
Luxembourg total	035	-			Affirm Holdings, Inc. 'A'	USD	1,006	9,728	0.05
-		_	6,645	0.03	AGCO Corp. Agiliti, Inc.	USD USD	296 159	41,052 2,593	0.21 0.01
Netherlands Core Laboratories NV	USD	221	4,480	0.02	Agilysys, Inc.	USD	96	7,597	0.04
Netherlands total		_	4.400	0.03	Agios Pharmaceuticals, Inc. AGNC Investment Corp., REIT	USD USD	263 2,745	7,385 28,411	0.04 0.15
Norway		_	4,480	0.02	Agree Realty Corp., REIT Air Lease Corp. 'A'	USD USD	425 495	30,145 19,018	0.16 0.10
FREYR Battery SA	USD	483 _	4,192	0.02	Air Transport Services Group, Inc. Alamo Group, Inc.	USD USD	276 49	7,170 6,938	0.04
Norway total		_	4,192	0.02	Alarm.com Holdings, Inc. Alaska Air Group, Inc.	USD	240	11,875 25,936	0.06
Puerto Rico EVERTEC, Inc.	USD	314	10,167	0.05	Albany International Corp. 'A'	USD USD	604 149	25,936 14,690	0.13
First BanCorp	USD	894	11,372	0.06	Alcoa Corp.	USD	850	38,649	0.20
OFG Bancorp Popular, Inc.	USD USD	228 358	6,284 23,742	0.03	Alector, Inc. Alexander & Baldwin, Inc., REIT	USD USD	291 348	2,686 6,518	0.01 0.03
Puerto Rico total	435	_	51,565	0.27	Alexander's, Inc., REIT Alight, Inc. 'A'	USD USD	11 1,286	2,421 10,751	0.01 0.06
Singapore		_			Alignment Healthcare, Inc. Alkami Technology, Inc.	USD USD	393 176	4,622 2,568	0.02 0.01
Kulicke & Soffa Industries, Inc.	USD	278 _	12,304	0.06	Allegiant Travel Co. 'A' Allegro MicroSystems, Inc.	USD USD	74 310	5,031 9,306	0.03 0.05
Singapore total Sweden		_	12,304	0.06	ALLETE, Inc. Allison Transmission Holdings, Inc.	USD USD	274 458	17,676 19,053	0.09 0.10
Autoliv, Inc.	USD	375 _	28,717	0.15	Allogene Therapeutics, Inc. Allscripts Healthcare Solutions, Inc.	USD USD	432 527	2,717 9,296	0.01 0.05
Sweden total		_	28,717	0.15	Alpha Metallurgical Resources, Inc. Alphatec Holdings, Inc.	USD USD	70 338	10,247 4,174	0.05 0.02
					Altair Engineering, Inc. 'A'	USD	249	11,322	0.06

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Alteryx, Inc. 'A'	USD	295	14,948	0.08	AutoNation, Inc.	USD	165	17,704	0.09
Altice USA, Inc. 'A'	USD	1,030	4,738	0.02	Avanos Medical, Inc.	USD	223	6,034	0.03
Altra Industrial Motion Corp. Altus Power, Inc. 'A'	USD USD	313 179	18,702 1,167	0.10 0.01	AvePoint, Inc. Avid Bioservices, Inc.	USD USD	417 295	1,714 4,062	0.01
Amalgamated Financial Corp.	USD	86	1,981	0.01	Avid Technology, Inc.	USD	159	4,228	0.02
Ambarella, Inc.	USD	175	14,390	0.07	Avidity Biosciences, Inc.	USD	320	7,101	0.04
AMC Entertainment Holdings, Inc. 'A'	USD	2,482	10,102	0.05	AvidXchange Holdings, Inc.	USD	632	6,282	0.03
AMC Networks, Inc. 'A' Amedisys, Inc.	USD USD	133 155	2,084 12,949	0.01 0.07	Avient Corp. Avis Budget Group, Inc.	USD USD	406 120	13,707 19,672	0.07 0.10
Amerant Bancorp, Inc. 'A'	USD	123	3,301	0.02	Avista Corp.	USD	355	15,741	0.10
Ameresco, Inc. 'A'	USD	162	9,257	0.05	Avnet, Inc.	USD	440	18,295	0.09
American Arrlines Group, Inc.	USD	3,124	39,737	0.21	Axalta Coating Systems Ltd.	USD	1,073	27,329 12,460	0.14 0.06
American Assets Trust, Inc., REIT American Axle & Manufacturing Holdings,	USD	249	6,598	0.03	Axcelis Technologies, Inc. Axon Enterprise, Inc.	USD USD	157 323	53,595	0.08
Inc.	USD	545	4,262	0.02	Axonics, Inc.	USD	238	14,882	0.08
American Eagle Outfitters, Inc.	USD	836	11,671	0.06	Axos Financial, Inc.	USD	256	9,784	0.05
American Equity Investment Life Holding Co.	USD	333	15,191	0.08	Axsome Therapeutics, Inc. AZEK Co., Inc. (The) 'A'	USD USD	165 522	12,726 10,607	0.07 0.05
American Homes 4 Rent, REIT 'A'	USD	1,475	44,456	0.23	Azenta, Inc.	USD	360	20,959	0.03
American States Water Co.	USD	177	16,381	0.08	AZZ, Inc.	USD	120	4,824	0.02
American Weel Corp. 'A'	USD	1,165	3,297 3,860	0.02 0.02	B Riley Financial, Inc.	USD	76	2,599	0.01
American Woodmark Corp. Americold Realty Trust, Inc., REIT	USD USD	79 1,294	36,633	0.02	B&G Foods, Inc.	USD	342	3,813	0.02
Ameris Bancorp	USD	313	14,755	0.08	Badger Meter, Inc. Balchem Corp.	USD USD	140 155	15,264 18,927	0.08
AMERISAFE, Inc.	USD	93	4,833	0.02	Bally's Corp.	USD	133	2,578	0.01
Amicus Therapeutics, Inc.	USD	1,201	14,664	0.08	Banc of California, Inc.	USD	268	4,269	0.02
Amkor Technology, Inc. AMN Healthcare Services, Inc.	USD USD	477 207	11,438 21,284	0.06 0.11	BancFirst Corp.	USD	83	7,319	0.04
Amphastar Pharmaceuticals, Inc.	USD	181	5,072	0.03	Bancorp, Inc. (The) Bank of Hawaii Corp.	USD USD	269 192	7,634 14,892	0.04
Amplitude, Inc. 'A'	USD	258	3,117	0.02	Bank OZK	USD	532	21,312	0.00
Amprius Technologies, Inc.	USD	61	484	0.00	BankUnited, Inc.	USD	370	12,569	0.06
Amylyx Pharmaceuticals, Inc. Amyris, Inc.	USD USD	190 1,086	7,020 1,662	0.04	Banner Corp.	USD	163	10,302	0.05
AnaptysBio, Inc.	USD	95	2,944	0.01	Barnes Group, Inc. Beacon Roofing Supply, Inc.	USD USD	241 241	9,845 12,722	0.05 0.07
Andersons, Inc. (The)	USD	152	5,318	0.03	Beam Therapeutics, Inc.	USD	285	11,146	0.06
Antero Midstream Corp.	USD	1,672	18,041	0.09	Beauty Health Co. (The)	USD	482	4,386	0.02
Antero Resources Corp. Anywhere Real Estate, Inc.	USD USD	1,326 531	41,093 3,393	0.21 0.02	Belden, Inc.	USD	207	14,883	0.08
Apartment Income REIT Corp.	USD	734	25,184	0.13	BellRing Brands, Inc. Benchmark Electronics, Inc.	USD USD	645 168	16,538 4,484	0.09
Apartment Investment & Management					Benson Hill, Inc.	USD	605	1,543	0.02
Co., REIT 'A'	USD	725	5,162	0.03	Berkshire Hills Bancorp, Inc.	USD	220	6,578	0.03
Apellis Pharmaceuticals, Inc. API Group Corp.	USD USD	452 967	23,373 18,189	0.12 0.09	Berry Global Group, Inc.	USD	602	36,379	0.19
Apogee Enterprises, Inc.	USD	107	4,757	0.02	Beyond Meat, Inc. BGC Partners, Inc. 'A'	USD USD	288 1,558	3,545 5,874	0.02
Apollo Commercial Real Estate Finance,				0.00	Big Lots, Inc.	USD	138	2,029	0.03
Inc., REIT Apollo Medical Holdings, Inc.	USD USD	620 191	6,671 5,652	0.03 0.03	BigCommerce Holdings, Inc.	USD	290	2,535	0.01
Appfolio, Inc. 'A'	USD	91	9,590	0.05	BioCryst Pharmaceuticals, Inc.	USD	896	10,286	0.05
Appian Corp. 'A'	USD	195	6,349	0.03	Biohaven Ltd. BioLife Solutions, Inc.	USD USD	308 162	4,275 2,948	0.02
Apple Hospitality REIT, Inc.	USD	1,022	16,127	0.08	BJ's Restaurants, Inc.	USD	112	2,946	0.02
Applied Industrial Technologies, Inc. AppLovin Corp. 'A'	USD USD	185 592	23,316 6,234	0.12 0.03	BJ's Wholesale Club Holdings, Inc.	USD	649	42,938	0.22
AptarGroup, Inc.	USD	312	34,314	0.03	Black Hills Corp.	USD	313	22,016	0.11
Arbor Realty Trust, Inc., REIT	USD	823	10,855	0.06	Black Knight, Inc. Blackbaud, Inc.	USD USD	749 214	46,251 12,596	0.24 0.07
ArcBest Corp.	USD	118	8,265	0.04	Blackline, Inc.	USD	262	17,625	0.09
Arcellx, Inc. Arch Resources, Inc.	USD USD	131 87	4,058 12,423	0.02 0.06	Blackstone Mortgage Trust, Inc., REIT 'A'	USD	837	17,719	0.09
Archrock, Inc.	USD	638	5,729	0.03	Blink Charging Co.	USD	193	2,117	0.01
Arconic Corp.	USD	489	10,347	0.05	Bloom Energy Corp. 'A' Bloomin' Brands, Inc.	USD USD	862 425	16,481 8,551	0.09 0.04
Arcosa, Inc.	USD	233	12,661	0.07	Blucora, Inc.	USD	228	5,821	0.04
Arcus Biosciences, Inc. Arcutis Biotherapeutics, Inc.	USD USD	250 194	5,170 2,871	0.03	Blue Owl Capital, Inc. 'A'	USD	1,686	17,872	0.09
Ares Management Corp. 'A'	USD	750	51,330	0.01	Blueprint Medicines Corp.	USD	288	12,617	0.07
Arko Corp.	USD	349	3,022	0.02	Boise Cascade Co. BOK Financial Corp.	USD USD	187 138	12,841 14,323	0.07 0.07
ARMOUR Residential REIT, Inc.	USD	545	3,068	0.02	Boot Barn Holdings, Inc.	USD	142	8,878	0.05
Armstrong World Industries, Inc. Array Technologies, Inc.	USD USD	220 666	15,090 12,874	0.08 0.07	Boston Beer Co., Inc. (The) 'A'	USD	47	15,487	0.08
Arrow Electronics, Inc.	USD	296	30,953	0.16	Bowlero Corp.	USD	184	2,480	0.01
Arrowhead Pharmaceuticals, Inc.	USD	508	20,604	0.11	Box, Inc. 'A' Boyd Gaming Corp.	USD USD	686 381	21,355 20,776	0.11
Artisan Partners Asset Management, Inc.	1165	220	0.504	0.05	Brady Corp. 'A'	USD	222	10,456	0.05
'A' Arvinas, Inc.	USD USD	320 233	9,504 7,971	0.05 0.04	Brandywine Realty Trust, REIT	USD	817	5,025	0.03
Asana, Inc. 'A'	USD	360	4,957	0.03	Braze, Inc. 'A'	USD	157	4,283	0.02
Asbury Automotive Group, Inc.	USD	106	19,000	0.10	Bread Financial Holdings, Inc. Bridgebio Pharma, Inc.	USD USD	237 518	8,925 3,947	0.05 0.02
ASGN, Inc.	USD	241	19,637	0.10	Bright Health Group, Inc.	USD	1,241	3,947 807	0.02
Ashland, Inc. Aspen Aerogels, Inc.	USD USD	238 263	25,592 3,101	0.13 0.02	Bright Horizons Family Solutions, Inc.	USD	275	17,352	0.09
AssetMark Financial Holdings, Inc.	USD	103	2,369	0.01	Brighthouse Financial, Inc.	USD	333	17,073	0.09
Associated Banc-Corp.	USD	716	16,532	0.09	Brightsphere Investment Group, Inc. BrightSpire Capital, Inc., REIT 'A'	USD	156	3,210 2,835	0.02
Assurant, Inc.	USD	253	31,640	0.16	BrightView Holdings, Inc.	USD USD	455 199	2,033 1,371	0.01
Astec Industries, Inc. ATI, Inc.	USD USD	110 619	4,473 18,483	0.02 0.10	Brinker International, Inc.	USD	209	6,669	0.03
Atkore, Inc.	USD	197	22,344	0.10	Brink's Co. (The)	USD	224	12,031	0.06
Atlantic Union Bankshares Corp.	USD	358	12,580	0.06	Brixmor Property Group, Inc., REIT	USD	1,440	32,645	0.17
Atlas Air Worldwide Holdings, Inc.	USD	123	12,398	0.06	Broadmark Realty Capital, Inc., REIT Broadstone Net Lease, Inc., REIT 'A'	USD USD	638 825	2,271 13,373	0.01
AtriCure, Inc.	USD	223	9,897 4,476	0.05 0.02	Brookdale Senior Living, Inc.	USD	889	2,427	0.01
Atrion Corp.	USD	8	44/6			ase		2,127	0.01

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
BRP Group, Inc. 'A'	USD	296	7,441	0.04	Cleveland-Cliffs, Inc.	USD	2,482	39,985	0.21
Bruker Corp.	USD	487	33,286	0.17	Clover Health Investments Corp. 'A'	USD	1,551	1,442	0.01
Brunswick Corp. Buckle, Inc. (The)	USD USD	348 141	25,084 6,394	0.13 0.03	CNO Financial Group, Inc. CNX Resources Corp.	USD USD	544 901	12,430 15,173	0.06
Builders FirstSource, Inc.	USD	707	45,870	0.24	Coca-Cola Consolidated, Inc.	USD	23	11,784	0.06
Bumble, Inc. 'A'	USD	377	7,936	0.04	Coeur Mining, Inc.	USD	1,337	4,492	0.02
Butterfly Network, Inc.	USD	684	1,683	0.01	Cogent Biosciences, Inc.	USD	316	3,653	0.02
BWX Technologies, Inc. C3.ai, Inc. 'A'	USD	438	25,439 4,521	0.13 0.02	Cogent Communications Holdings, Inc. Cohen & Steers, Inc.	USD	209 119	11,930	0.06 0.04
Cable One, Inc.	USD USD	404 24	17,085	0.02	Coherent Corp.	USD USD	667	7,683 23,412	0.04
Cabot Corp.	USD	270	18,047	0.09	Coherus Biosciences, Inc.	USD	308	2,439	0.01
CACI International, Inc. 'A'	USD	112	33,666	0.17	Cohu, Inc.	USD	230	7,371	0.04
Cactus, Inc. 'A'	USD	289	14,525	0.07	Columbia Banking System, Inc.	USD	374	11,269	0.06
Cadence Bank Cadre Holdings, Inc.	USD	869 74	21,430 1,490	0.11	Columbia Financial, Inc. Columbia Sportswear Co.	USD USD	181 168	3,913 14,713	0.02
Calavo Growers, Inc.	USD USD	85	2,499	0.01	Comfort Systems USA, Inc.	USD	171	19,679	0.08
Caleres, Inc.	USD	175	3,899	0.02	Commerce Bancshares, Inc.	USD	548	37,302	0.19
California Resources Corp.	USD	359	15,620	0.08	Commercial Metals Co.	USD	565	27,289	0.14
California Water Service Group	USD	263	15,948	0.08	CommScope Holding Co., Inc.	USD	998	7,335	0.04
Calix, Inc. Callon Petroleum Co.	USD USD	272 244	18,613 9,050	0.10 0.05	Community Bank System, Inc. Community Trust Bancorp, Inc.	USD USD	259 73	16,304 3,353	0.08
Cal-Maine Foods, Inc.	USD	180	9,801	0.05	CommVault Systems, Inc.	USD	213	13,385	0.07
Camping World Holdings, Inc. 'A'	USD	190	4,241	0.02	Compass Diversified Holdings	USD	298	5,433	0.03
Cannae Holdings, Inc.	USD	355	7,331	0.04	Compass Minerals International, Inc.	USD	162	6,642	0.03
Cano Health, Inc.	USD	882	1,208	0.01 0.03	Compass, Inc. 'A'	USD	1,215	2,831	0.01
Capitol Federal Financial, Inc. Cardiovascular Systems, Inc.	USD USD	620 195	5,363 2,656	0.03	Comstock Resources, Inc. Concentrix Corp.	USD USD	433 204	5,936 27,165	0.03 0.14
CareDx, Inc.	USD	255	2,910	0.02	Conduent, Inc.	USD	791	3,204	0.02
CareTrust REIT, Inc.	USD	462	8,584	0.04	Confluent, Inc. 'A'	USD	739	16,435	0.08
Cargurus, Inc. 'A'	USD	444	6,220	0.03	CONMED Corp.	USD	146	12,941	0.07
Carlisle Cos., Inc. Carpenter Technology Corp.	USD USD	249 233	58,677 8,607	0.30 0.04	Consensus Cloud Solutions, Inc. CONSOL Energy, Inc.	USD USD	84 157	4,516 10,205	0.02 0.05
Cars.com, Inc.	USD	233 292	4,021	0.04	Construction Partners, Inc. 'A'	USD	198	5,285	0.03
Carter's, Inc.	USD	185	13,803	0.07	ContextLogic, Inc. 'A'	USD	2,700	1,317	0.01
Carvana Co. 'A'	USD	474	2,247	0.01	Corcept Therapeutics, Inc.	USD	460	9,343	0.05
Casella Waste Systems, Inc. 'A'	USD	243	19,272	0.10	Core & Main, Inc. 'A'	USD	344	6,643	0.03
Casey's General Stores, Inc. Cassava Sciences, Inc.	USD USD	180 180	40,383 5,317	0.21 0.03	CoreCivic, Inc. Corporate Office Properties Trust, REIT	USD USD	564 540	6,520 14,008	0.03 0.07
Castle Biosciences, Inc.	USD	118	2,778	0.01	Corsair Gaming, Inc.	USD	183	2,483	0.01
Catalyst Pharmaceuticals, Inc.	USD	459	8,537	0.04	CorVel Corp.	USD	44	6,395	0.03
Cathay General Bancorp	USD	355	14,480	0.07	Coty, Inc. 'A'	USD	1,750	14,980	0.08
Cavco Industries, Inc.	USD	40	9,050	0.05 0.06	Courses Inc.	USD	363	28,739	0.15
CBIZ, Inc. CBL & Associates Properties, Inc., REIT	USD USD	245 118	11,478 2,723	0.00	Coursera, Inc. Cousins Properties, Inc., REIT	USD USD	403 727	4,767 18,386	0.02
CCC Intelligent Solutions Holdings, Inc.	USD	507	4,411	0.02	Cowen, Inc. 'A'	USD	127	4,905	0.03
Celldex Therapeutics, Inc.	USD	226	10,073	0.05	Cracker Barrel Old Country Store, Inc.	USD	106	10,042	0.05
Celsius Holdings, Inc.	USD	192	19,976	0.10	Crane Holdings Co.	USD	230	23,103	0.12
Centerspace, REIT Central Garden & Pet Co.	USD	74 47	4,342 1,760	0.02	Credit Acceptance Corp. Credo Technology Group Holding Ltd.	USD USD	30 430	14,232 5,723	0.07 0.03
Central Garden & Pet Co. 'A'	USD USD	197	7,053	0.01	Crocs, Inc.	USD	295	31,987	0.03
Central Pacific Financial Corp.	USD	131	2,657	0.01	Cross Country Healthcare, Inc.	USD	170	4,517	0.02
Century Aluminum Co.	USD	246	2,012	0.01	CryoPort, Inc.	USD	235	4,077	0.02
Century Communities, Inc.	USD	137	6,851	0.04	CS Disco, Inc.	USD	81	512	0.00
Cerence, Inc. Cerevel Therapeutics Holdings, Inc.	USD USD	188 308	3,484 9,714	0.02 0.05	CSG Systems International, Inc. CTS Corp.	USD USD	152 152	8,694 5,992	0.04
Certara, Inc.	USD	503	8,083	0.04	CubeSmart, REIT	USD	1,078	43,389	0.22
ChampionX Corp.	USD	958	27,772	0.14	Cue Health, Inc.	USD	460	952	0.00
ChargePoint Holdings, Inc.	USD	1,258	11,989	0.06	Cullen/Frost Bankers, Inc.	USD	309	41,313	0.21
Chart Industries, Inc. Cheesecake Factory, Inc. (The)	USD USD	200 231	23,046 7,325	0.12 0.04	Curtiss-Wright Corp. Cushman & Wakefield plc	USD USD	183 781	30,559 9,731	0.16 0.05
Chefs' Warehouse, Inc. (The)	USD	162	5,391	0.04	Custom Truck One Source. Inc.	USD	296	1,871	0.03
Chegg, Inc.	USD	601	15,187	0.08	Customers Bancorp, Inc.	USD	146	4,138	0.02
Chemed Corp.	USD	72	36,751	0.19	CVB Financial Corp.	USD	631	16,248	0.08
Chemours Co. (The)	USD	725	22,199	0.11	Cvent Holding Corp. 'A'	USD	302	1,631	0.01
Chesapeake Energy Corp. Chesapeake Utilities Corp.	USD USD	515 128	48,601 15,127	0.25 0.08	CVR Energy, Inc. Cytokinetics, Inc.	USD USD	138 454	4,325 20,802	0.02
Chewy, Inc. 'A'	USD	444	16,464	0.09	Dana. Inc.	USD	607	9,184	0.05
Children's Place, Inc. (The)	USD	62	2,258	0.01	Darling Ingredients, Inc.	USD	770	48,194	0.25
Chimera Investment Corp., REIT	USD	1,113	6,121	0.03	Dave & Buster's Entertainment, Inc.	USD	202	7,159	0.04
Chinook Therapeutics, Inc.	USD	216	5,659	0.03	Deciphera Pharmaceuticals, Inc.	USD	237	3,884	0.02
Choice Hotels International, Inc. Chord Energy Corp.	USD USD	133 198	14,981 27,088	0.08 0.14	Deckers Outdoor Corp. Definitive Healthcare Corp. 'A'	USD USD	127 182	50,693 2,000	0.26 0.01
Churchill Downs, Inc.	USD	158	33,406	0.17	Delek US Holdings, Inc.	USD	335	9,045	0.05
Ciena Corp.	USD	712	36,298	0.19	Deluxe Corp.	USD	206	3,498	0.02
CinCor Pharma, Inc.	USD	90	1,106	0.01	Denali Therapeutics, Inc.	USD	529	14,711	0.08
Cinemark Holdings, Inc.	USD	510	4,417	0.02	Denbury, Inc.	USD	238	20,711	0.11
Cirrus Logic, Inc. City Holding Co.	USD	267	19,886 6,702	0.10 0.03	Denny's Corp. Designer Brands, Inc. 'A'	USD	276	2,542 2,386	0.01
Civitas Resources, Inc.	USD USD	72 247	14,309	0.03	Desktop Metal, Inc. 'A'	USD USD	244 1,112	2,386 1,512	0.01
Claros Mortgage Trust, Inc.	USD	585	8,605	0.04	Diamond Offshore Drilling, Inc.	USD	488	5,075	0.03
Clean Energy Fuels Corp.	USD	835	4,342	0.02	DiamondRock Hospitality Co., REIT	USD	1,003	8,215	0.04
Clean Harbors, Inc.	USD	240	27,389	0.14	DICE Therapeutics, Inc.	USD	163	5,086	0.03
Clear Channel Outdoor Holdings, Inc. 'A'	USD	2,267	2,380	0.01	Dick's Sporting Goods, Inc.	USD	267	32,117	0.17
Clear Secure, Inc. 'A' Clearfield, Inc.	USD USD	361 55	9,902 5,178	0.05 0.03	Digi International, Inc. Digital Turbine, Inc.	USD USD	170 428	6,213 6,523	0.03
Clearway Energy, Inc. 'A'	USD	166	4,967	0.03	Digital Furbine, Inc. DigitalBridge Group, Inc.	USD	703	7,691	0.03
Clearway Energy, Inc. 'C'	USD	395	12,589	0.07	DigitalOcean Holdings, Inc.	USD	291	7,412	0.04

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Dillard's, Inc. 'A'	USD	17	5,494	0.03	Everbridge, Inc.	USD	190	5,620	0.03
Dime Community Bancshares, Inc. Dine Brands Global, Inc.	USD	156	4,965	0.03	EverCommerce, Inc.	USD	140	1,042	0.01
Dine Brands Global, Inc. Diodes, Inc.	USD USD	75 219	4,845 16,675	0.03 0.09	Evercore, Inc. 'A' Everi Holdings, Inc.	USD USD	171 427	18,653 6,127	0.10
DISH Network Corp. 'A'	USD	1,208	16,960	0.09	Evo Payments, Inc. 'A'	USD	233	7,885	0.03
Diversey Holdings Ltd.	USD	374	1,593	0.01	Evolent Health, Inc. 'A'	USD	443	12,439	0.06
DocGo, Inc.	USD	396	2,800	0.01	Evoqua Water Technologies Corp.	USD	584	23,126	0.12
Dolby Laboratories, Inc. 'A' Domo, Inc. 'B'	USD	294	20,739 2,079	0.11 0.01	EW Scripps Co. 'A' Exelixis, Inc.	USD	276	3,640	0.02
Donaldson Co., Inc.	USD USD	146 589	34,674	0.01	Exilservice Holdings, Inc.	USD USD	1,543 158	24,750 26,770	0.13
Donnelley Financial Solutions, Inc.	USD	121	4,677	0.02	eXp World Holdings, Inc.	USD	346	3,834	0.02
Dorman Products, Inc.	USD	136	10,998	0.06	Expensify, Inc. 'A'	USD	215	1,898	0.01
DoubleVerify Holdings, Inc. 'Rights'	USD	352	7,730	0.04	Exponent, Inc.	USD	243	24,079	0.12
Douglas Emmett, Inc., REIT	USD	844	13,234	0.07	Extreme Networks, Inc.	USD	630	11,535	0.06
Doximity, Inc. 'A' DraftKings, Inc. 'A'	USD USD	546 2,152	18,324 24,511	0.09 0.13	Fair Isaac Corp. FARO Technologies, Inc.	USD USD	119 88	71,231 2,588	0.37 0.01
Drattkings, Inc. A Dril-Quip, Inc.	USD	163	4,429	0.13	Fastly, Inc. 'A'	USD	530	4,341	0.01
Driven Brands Holdings, Inc.	USD	264	7,210	0.04	Fate Therapeutics, Inc.	USD	396	3,996	0.02
Dropbox, Inc. 'A'	USD	1,296	29,004	0.15	FB Financial Corp.	USD	169	6,108	0.03
DT Midstream, Inc.	USD	465	25,696	0.13	Federal Agricultural Mortgage Corp. 'C'	USD	44	4,959	0.03
Duck Creek Technologies, Inc.	USD	360	4,338	0.02	Federal Signal Corp.	USD	292	13,569	0.07
Duckhorn Portfolio, Inc. (The) Dun & Bradstreet Holdings, Inc.	USD USD	203 1,047	3,364 12,836	0.02	Federated Hermes, Inc. 'B' FibroGen, Inc.	USD USD	403 420	14,633 6,728	0.08
Duolingo, Inc. 'A'	USD	1,047	8,464	0.07	Figs, Inc. 'A'	USD	605	4,072	0.03
Dutch Bros, Inc. 'A'	USD	143	4,031	0.02	First Advantage Corp.	USD	278	3,614	0.02
Dycom Industries, Inc.	USD	141	13,198	0.07	First American Financial Corp.	USD	495	25,908	0.13
Dynavax Technologies Corp.	USD	570	6,065	0.03	First Bancorp/Southern Pines	USD	170	7,283	0.04
E2open Parent Holdings, Inc.	USD	820	4,813	0.02	First Busey Corp.	USD	244	6,032	0.03
Eagle Bancorp, Inc.	USD	152	6,699 23,382	0.03 0.12	First Citizens BancShares, Inc. 'A' First Commonwealth Financial Corp.	USD	58	43,985 6,259	0.23
Eagle Materials, Inc. Earthstone Energy, Inc. 'A'	USD USD	176 183	25,362	0.12	First Financial Bancorp	USD USD	448 452	10,952	0.03
Easterly Government Properties, Inc., REIT	USD	105	2,001	0.01	First Financial Bankshares, Inc.	USD	624	21,466	0.11
'A'	USD	433	6,179	0.03	First Foundation, Inc.	USD	242	3,468	0.02
Eastern Bankshares, Inc.	USD	773	13,334	0.07	First Hawaiian, Inc.	USD	614	15,989	0.08
EastGroup Properties, Inc., REIT	USD	210	31,093	0.16	First Horizon Corp.	USD	2,574	63,063	0.33
Ebix, Inc. EchoStar Corp. 'A'	USD USD	113 167	2,255 2,786	0.01 0.01	First Industrial Realty Trust, Inc., REIT	USD	635	30,645	0.16
Ecovyst, Inc.	USD	332	2,780	0.01	First Interstate BancSystem, Inc. 'A' First Merchants Corp.	USD USD	432 287	16,697 11,799	0.09
Edgewell Personal Care Co.	USD	246	9,481	0.05	FirstCash Holdings, Inc.	USD	182	15,818	0.08
Editas Medicine, Inc. 'A'	USD	328	2,909	0.02	Fisker, Inc.	USD	760	5,525	0.03
Elastic NV	USD	369	19,004	0.10	Five Below, Inc.	USD	266	47,047	0.24
Element Solutions, Inc.	USD	1,086	19,754	0.10	Five9, Inc.	USD	337	22,869	0.12
elf Beauty, Inc. Elme Communities, REIT	USD	238 420	13,161 7,476	0.07 0.04	Floor & Decor Holdings, Inc. 'A'	USD	510	35,511	0.18
Embecta Corp.	USD USD	420 276	6,980	0.04	Flowers Foods, Inc. Flowserve Corp.	USD USD	922	26,498 19,236	0.14
EMCOR Group, Inc.	USD	229	33,917	0.18	Fluor Corp.	USD	627 677	23,465	0.10
Emergent BioSolutions, Inc.	USD	211	2,492	0.01	Flushing Financial Corp.	USD	136	2,636	0.01
Empire State Realty Trust, Inc., REIT 'A'	USD	639	4,307	0.02	Flywire Corp.	USD	301	7,365	0.04
Employers Holdings, Inc.	USD	130	5,607	0.03	FNB Corp.	USD	1,686	22,002	0.11
Enact Holdings, Inc. Enanta Pharmaceuticals, Inc.	USD USD	141 92	3,401 4,280	0.02 0.02	Focus Financial Partners, Inc. 'A'	USD	281	10,473	0.05
Encompass Health Corp.	USD	478	28,589	0.15	Foot Locker, Inc. Forestar Group, Inc.	USD USD	383 80	14,474 1,233	0.07 0.01
Encore Capital Group, Inc.	USD	114	5,465	0.03	ForgeRock, Inc. 'A'	USD	177	4,030	0.02
Encore Wire Corp.	USD	88	12,105	0.06	FormFactor, Inc.	USD	370	8,225	0.04
Endeavor Group Holdings, Inc. 'A'	USD	835	18,821	0.10	Forrester Research, Inc.	USD	54	1,931	0.01
Energizer Holdings, Inc. Energy Recovery, Inc.	USD	337	11,306	0.06	Forward Air Corp.	USD	128	13,426	0.07
Energy Recovery, Inc. Enerpac Tool Group Corp. 'A'	USD USD	268 271	5,491 6,897	0.03 0.04	Four Corners Property Trust, Inc., REIT	USD	403	10,450	0.05
EnerSys	USD	196	14,473	0.04	Fox Factory Holding Corp. Franchise Group, Inc.	USD USD	203 134	18,520 3,192	0.10
Enfusion, Inc. 'A'	USD	63	609	0.00	Franklin BSP Realty Trust, Inc., REIT	USD	397	5,121	0.03
EngageSmart, Inc.	USD	144	2,534	0.01	Franklin Electric Co., Inc.	USD	187	14,913	0.08
Enova International, Inc.	USD	153	5,871	0.03	Fresh Del Monte Produce, Inc.	USD	149	3,902	0.02
Enovis Corp. Enovix Corp.	USD	228	12,203 6,506	0.06 0.03	Freshpet, Inc.	USD	231	12,190	0.06
EnPro Industries, Inc.	USD USD	523 99	10,760	0.03	Freshworks, Inc. 'A' Frontdoor, Inc.	USD USD	774 388	11,386 8,070	0.06
Ensign Group, Inc. (The)	USD	266	25,166	0.13	Frontier Communications Parent, Inc.	USD	1,070	27,264	0.04
Enterprise Financial Services Corp.	USD	177	8,666	0.04	Frontier Group Holdings, Inc.	USD	176	1,808	0.01
Entrada Therapeutics, Inc.	USD	83	1,122	0.01	FTI Consulting, Inc.	USD	165	26,202	0.14
Envestnet, Inc.	USD	265	16,350	0.08	fuboTV, Inc.	USD	938	1,632	0.01
Envista Holdings Corp. Enviva, Inc.	USD	783	26,364 7,840	0.14 0.04	FuelCell Energy, Inc.	USD	1,948	5,415	0.03
ePlus, Inc.	USD USD	148 128	5,668	0.04	Fulgent Genetics, Inc. Fulton Financial Corp.	USD	97	2,889 13,548	0.01 0.07
EPR Properties, REIT	USD	360	13,579	0.03	GameStop Corp. 'A'	USD USD	805 1,212	22,374	0.07
EQRx, Inc.	USD	1,093	2,689	0.01	Gaming & Leisure Properties, Inc., REIT	USD	1,237	64,435	0.12
Equitrans Midstream Corp.	USD	2,080	13,936	0.07	Gap, Inc. (The)	USD	1,015	11,449	0.06
Equity Commonwealth, REIT	USD	530	13,234	0.07	Gates Industrial Corp. plc	USD	484	5,522	0.03
Erie Indemnity Co. 'A'	USD	119	29,598	0.15	GATX Corp.	USD	170	18,078	0.09
Esab Corp. ESCO Technologies, Inc.	USD USD	249 125	11,683 10,943	0.06 0.06	Genpact Ltd.	USD	810	37,519	0.19
ESS Tech, Inc.	USD	125 259	10,943	0.00	Gentex Corp. Gentherm, Inc.	USD USD	1,127 159	30,733 10,381	0.16
Essent Group Ltd.	USD	517	20,101	0.10	Genworth Financial, Inc. 'A'	USD	2,397	12,680	0.05
Essential Properties Realty Trust, Inc.,	-30	~÷*			GEO Group, Inc. (The)	USD	591	6,471	0.03
REIT	USD	684	16,053	0.08	German American Bancorp, Inc.	USD	133	4,961	0.03
Essential Utilities, Inc.	USD	1,147	54,746	0.28	Getty Realty Corp., REIT	USD	203	6,872	0.04
	USD	226	21,330	0.11	Gevo, Inc.	USD	1,119	2,126	0.01
Euronet Worldwide, Inc. European Wax Center, Inc. 'A'	USD	125	1,556	0.01	Gibraltar Industries, Inc.	USD	152	6,974	0.04

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Ginkgo Bioworks Holdings, Inc.	USD	4,269	7,215	0.04	Holley, Inc.	USD	242	513	0.00
Gitlab, Inc. 'A' Glacier Bancorp, Inc.	USD USD	289 532	13,132 26,291	0.07 0.14	Home BancShares, Inc. Hope Bancorp, Inc.	USD USD	907 568	20,671 7,276	0.11 0.04
Gladstone Land Corp., REIT	USD	155	2,844	0.01	Horace Mann Educators Corp.	USD	195	7,287	0.04
Glaukos Corp.	USD	230	10,046	0.05	Hostess Brands, Inc. 'A'	USD	650	14,586	0.08
Global Industrial Co. Global Net Lease, Inc., REIT	USD USD	79 494	1,859 6,210	0.01 0.03	Houlihan Lokey, Inc. 'A' Howard Hughes Corp. (The)	USD USD	240 165	20,918 12,609	0.11 0.07
Globalstar, Inc.	USD	3,343	4,446	0.03	Hub Group, Inc. 'A'	USD	157	12,480	0.07
Globus Medical, Inc. 'A'	USD	369	27,406	0.14	Hudson Pacific Properties, Inc., REIT	USD	618	6,013	0.03
GMS, Inc.	USD	202	10,060	0.05	Huntsman Corp.	USD	867	23,825	0.12
Gogo, Inc. Golden Entertainment, Inc.	USD USD	306 104	4,517 3,890	0.02	Huron Consulting Group, Inc. Hyatt Hotels Corp. 'A'	USD USD	99 231	7,187 20,894	0.04
GoodRx Holdings, Inc. 'A'	USD	366	1,706	0.01	Hyzon Motors, Inc.	USD	400	620	0.00
Goodyear Tire & Rubber Co. (The)	USD	1,347	13,672	0.07	IAA, Inc.	USD	642	25,680	0.13
Goosehead Insurance, Inc. 'A'	USD	102	3,503	0.02 0.02	IAC, Inc. ICF International, Inc.	USD	376	16,694	0.09 0.04
GoPro, Inc. 'A' Gorman-Rupp Co. (The)	USD USD	621 110	3,093 2,818	0.02	Ichor Holdings Ltd.	USD USD	80 137	7,924 3,674	0.04
Gossamer Bio, Inc.	USD	367	796	0.00	ICU Medical, Inc.	USD	96	15,118	0.08
Graco, Inc.	USD	812	54,615	0.28	IDACORP, Inc.	USD	243	26,208	0.14
GrafTech International Ltd. Graham Holdings Co. 'B'	USD	924 19	4,398 11,480	0.02 0.06	IGM Biosciences, Inc. iHeartMedia, Inc. 'A'	USD	42	714 3,022	0.00
Grand Canyon Education, Inc.	USD USD	147	15,532	0.08	ImmunityBio, Inc.	USD USD	493 496	2,515	0.02
Granite Construction, Inc.	USD	211	7,400	0.04	ImmunoGen, Inc.	USD	954	4,732	0.02
Graphic Packaging Holding Co.	USD	1,476	32,841	0.17	Immunovant, Inc.	USD	267	4,739	0.02
Gray Television, Inc.	USD	408	4,566 3,150	0.02 0.02	Impinj, Inc.	USD	102	11,136	0.06
Green Brick Partners, Inc. Green Dot Corp. 'A'	USD USD	130 227	3,150	0.02	Inari Medical, Inc. Independence Realty Trust, Inc., REIT	USD USD	232 1,075	14,746 18,125	0.08
Green Plains, Inc.	USD	284	8,662	0.04	Independent Bank Corp.	USD	219	18,490	0.10
Greenbrier Cos., Inc. (The)	USD	155	5,197	0.03	Independent Bank Group, Inc.	USD	170	10,214	0.05
Greif, Inc. 'A'	USD	124	8,315	0.04	indie Semiconductor, Inc. 'A' Infinera Corp.	USD	306	1,784	0.01
Greif, Inc. 'B' Grid Dynamics Holdings, Inc.	USD USD	27 249	2,112 2,794	0.01 0.01	Informatica, Inc. 'A'	USD USD	918 181	6,187 2,948	0.03
Griffon Corp.	USD	225	8,053	0.01	Ingevity Corp.	USD	171	12,045	0.02
Grocery Outlet Holding Corp.	USD	420	12,260	0.06	Ingles Markets, Inc. 'A'	USD	69	6,656	0.03
Group 1 Automotive, Inc.	USD	71	12,806	0.07	Ingredion, Inc.	USD	315	30,848	0.16
Guardant Health, Inc. Guess?, Inc.	USD USD	491 160	13,355 3,310	0.07 0.02	Inhibrx, Inc. Innospec, Inc.	USD USD	145 119	3,573 12,240	0.02 0.06
Guidewire Software, Inc.	USD	408	25,524	0.13	Innovative Industrial Properties, Inc., REIT		119	12,240	0.00
Gulfport Energy Corp.	USD	56	4,124	0.02	'A'	USD	134	13,581	0.07
GXO Logistics, Inc.	USD	569	24,291	0.13	Innoviva, Inc.	USD	298	3,949 2,129	0.02
H&E Equipment Services, Inc. H&R Block, Inc.	USD USD	162 746	7,355 27,236	0.04 0.14	Inogen, Inc. Insight Enterprises, Inc.	USD USD	108 145	14,539	0.01
Haemonetics Corp.	USD	247	19,427	0.10	Insmed, Inc.	USD	650	12,987	0.07
Hagerty, Inc. 'A'	USD	150	1,262	0.01	Insperity, Inc.	USD	170	19,312	0.10
Hain Celestial Group, Inc. (The)	USD	427	6,909	0.04	Inspire Medical Systems, Inc. Installed Building Products, Inc.	USD USD	139 113	35,011 9,673	0.18 0.05
Halozyme Therapeutics, Inc. Hamilton Lane, Inc. 'A'	USD USD	650 171	36,985 10,923	0.19 0.06	Instructure Holdings, Inc.	USD	83	1,946	0.03
Hancock Whitney Corp.	USD	411	19,888	0.10	Intapp, Inc.	USD	72	1,796	0.01
Hanesbrands, Inc.	USD	1,676	10,659	0.06	Integer Holdings Corp.	USD	159	10,885	0.06
Hannon Armstrong Sustainable	IICD	426	12,345	0.06	Integra LifeSciences Holdings Corp. Integral Ad Science Holding Corp.	USD	367	20,578	0.11 0.01
Infrastructure Capital, Inc., REIT Hanover Insurance Group, Inc. (The)	USD USD	426 170	22,972	0.12	Intellia Therapeutics, Inc.	USD USD	178 410	1,565 14,305	0.01
Harley-Davidson, Inc.	USD	639	26,582	0.14	Inter Parfums, Inc.	USD	84	8,108	0.04
Harmonic, Inc.	USD	506	6,629	0.03	Interactive Brokers Group, Inc. 'A'	USD	493	35,669	0.18
Harmony Biosciences Holdings, Inc. HashiCorp, Inc. 'A'	USD USD	141 355	7,769 9,706	0.04 0.05	InterDigital, Inc. Interface, Inc. 'A'	USD USD	143 282	7,076 2,783	0.04
Hawaiian Electric Industries, Inc.	USD	526	22,013	0.03	International Bancshares Corp.	USD	253	11,577	0.06
Hawaiian Holdings, Inc.	USD	282	2,893	0.01	International Money Express, Inc.	USD	159	3,875	0.02
Hayward Holdings, Inc.	USD	484	4,550	0.02	International Seaways, Inc.	USD	194	7,182	0.04
HB Fuller Co. Health Catalyst, Inc.	USD USD	254 261	18,191 2,774	0.09 0.01	Intra-Cellular Therapies, Inc. InvenTrust Properties Corp., REIT	USD USD	423 324	22,385 7,669	0.12 0.04
Healthcare Services Group, Inc.	USD	353	4,236	0.01	Invitae Corp.	USD	1,097	2,040	0.04
HealthEquity, Inc.	USD	405	24,964	0.13	Ionis Pharmaceuticals, Inc.	USD	681	25,721	0.13
HealthStream, Inc.	USD	116	2,881	0.01	lonQ, Inc.	USD	717	2,474	0.01
Heartland Express, Inc. Heartland Financial USA, Inc.	USD USD	224 181	3,436 8,438	0.02 0.04	Iovance Biotherapeutics, Inc. IPG Photonics Corp.	USD	653	4,173 14,958	0.02
Hecla Mining Co.	USD	2,696	14,990	0.04	iRhythm Technologies, Inc.	USD USD	158 145	13,582	0.08
Helen of Troy Ltd.	USD	115	12,755	0.07	Iridium Communications, Inc.	USD	604	31,046	0.16
Helios Technologies, Inc.	USD	156	8,493	0.04	iRobot Corp.	USD	130	6,257	0.03
Helix Energy Solutions Group, Inc. Helmerich & Payne, Inc.	USD	685 505	5,055 25,033	0.03 0.13	Ironwood Pharmaceuticals, Inc. 'A' iStar, Inc., REIT	USD USD	634 406	7,855 3,098	0.04
Herbalife Nutrition Ltd.	USD USD	465	6,919	0.13	iTeos Therapeutics, Inc.	USD	117	2,285	0.02
Herc Holdings, Inc.	USD	121	15,920	0.08	Itron, Inc.	USD	214	10,839	0.06
Heritage Financial Corp.	USD	168	5,148	0.03	ITT, Inc.	USD	398	32,278	0.17
Hertz Global Holdings, Inc.	USD	803	12,358	0.06	IVERIC bio, Inc.	USD	611	13,082	0.07
Heska Corp. Hexcel Corp.	USD USD	48 405	2,984 23,834	0.02 0.12	J & J Snack Foods Corp. Jabil, Inc.	USD USD	73 646	10,929 44,057	0.06 0.23
HF Sinclair Corp.	USD	647	33,573	0.12	Jack in the Box, Inc.	USD	100	6,823	0.23
HighPeak Energy, Inc.	USD	65	1,487	0.01	Jackson Financial, Inc. 'A'	USD	284	9,880	0.05
Highwoods Properties, Inc., REIT	USD	505	14,130	0.07	Jamf Holding Corp.	USD	213	4,537	0.02
Hillenbrand, Inc. Hillman Solutions Corp.	USD USD	333 574	14,209 4,139	0.07 0.02	Janus International Group, Inc. JBG SMITH Properties, REIT	USD USD	377 474	3,589 8,997	0.02
Hilltop Holdings, Inc.	USD	218	6,542	0.02	JELD-WEN Holding, Inc.	USD	474	3,908	0.03
Hilton Grand Vacations, Inc.	USD	384	14,799	0.08	JetBlue Airways Corp.	USD	1,541	9,986	0.05
Hims & Hers Health, Inc.	USD	582	3,731	0.02	Joby Aviation, Inc.	USD	1,403	4,700	0.02
HireRight Holdings Corp. HNI Corp.	USD USD	99 199	1,174 5,658	0.01 0.03	John Bean Technologies Corp. John Wiley & Sons, Inc. 'A'	USD USD	153 205	13,973 8,212	0.07 0.04
mar corp.	นวบ	199	3,036	0.03	John Wiley & John, IIIC. A	นวบ	205	0,212	0.04

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Jones Lang LaSalle, Inc.	USD	229	36,496	0.19	Lyft, Inc. 'A'	USD	1,507	16,607	0.09
Kadant, Inc. Kaiser Aluminum Corp.	USD USD	56 77	9,947 5,849	0.05 0.03	M/I Homes, Inc. Macerich Co. (The), REIT	USD USD	134 1,023	6,188 11,519	0.03 0.06
Kaman Corp.	USD	134	2,988	0.02	MACOM Technology Solutions Holdings,	asb	1,023	11,517	0.00
KAR Auction Services, Inc.	USD	551	7,191	0.04	Inc.	USD	245	15,430	0.08
Karuna Therapeutics, Inc.	USD	133	26,135	0.13	Macy's, Inc.	USD	1,294	26,721	0.14
KB Home KBR, Inc.	USD	403	12,836 35,165	0.07 0.18	Madison Square Garden Entertainment Corp.	USD	127	5,711	0.03
Kearny Financial Corp.	USD USD	666 325	3,299	0.18	Madison Square Garden Sports Corp.	USD	91	16,683	0.09
Kelly Services, Inc. 'A'	USD	155	2,620	0.01	Madrigal Pharmaceuticals, Inc.	USD	58	16,835	0.09
Kemper Corp.	USD	307	15,104	0.08	Magnite, Inc.	USD	557	5,899	0.03
Kennametal, Inc.	USD	387	9,311	0.05	Magnolia Oil & Gas Corp. 'A' Malibu Boats, Inc. 'A'	USD USD	807 97	18,924 5,170	0.10
Kennedy-Wilson Holdings, Inc. Keros Therapeutics, Inc.	USD	562	8,840 4,034	0.05 0.02	Manhattan Associates, Inc.	USD	301	36,541	0.03
Kforce, Inc.	USD USD	84 94	5,154	0.02	ManpowerGroup, Inc.	USD	242	20,137	0.10
Kilroy Realty Corp., REIT	USD	504	19,490	0.10	Marathon Digital Holdings, Inc.	USD	528	1,806	0.01
Kinetik Holdings, Inc. 'A'	USD	100	3,308	0.02	Maravai LifeSciences Holdings, Inc. 'A'	USD	525	7,513	0.04
Kinsale Capital Group, Inc.	USD	103	26,937	0.14	Marcus & Millichap, Inc. Margeta, Inc. 'A'	USD USD	120	4,134 12,953	0.02
Kirby Corp.	USD	287	18,468 22,145	0.10 0.11	Marriott Vacations Worldwide Corp.	USD	2,120 184	24,765	0.07
Kite Realty Group Trust, REIT KKR Real Estate Finance Trust, Inc., REIT	USD USD	1,052 277	3,867	0.02	Marten Transport Ltd.	USD	276	5,459	0.03
Knight-Swift Transportation Holdings, Inc.	USD	2//	3,007	0.02	Masimo Corp.	USD	231	34,176	0.18
'A'	USD	770	40,356	0.21	Masonite International Corp.	USD	107	8,625	0.04
KnowBe4, Inc. 'A'	USD	414	10,259	0.05	MasTec, Inc.	USD	282	24,063	0.12
Knowles Corp.	USD	436	7,159	0.04 0.07	Matador Resources Co. Materion Corp.	USD USD	538 99	30,795 8,663	0.16 0.04
Kohl's Corp. Kontoor Brands, Inc.	USD USD	560 235	14,140 9,398	0.07	Mativ Holdings, Inc.	USD	261	5,455	0.04
Korn Ferry	USD	259	13,111	0.07	Matson, Inc.	USD	182	11,377	0.06
Kosmos Energy Ltd.	USD	2,190	13,928	0.07	Mattel, Inc.	USD	1,702	30,364	0.16
Kratos Defense & Security Solutions, Inc.	USD	599	6,182	0.03	Matterport, Inc.	USD	1,041	2,915	0.02
Krispy Kreme, Inc.	USD	319	3,292	0.02 0.00	Matthews International Corp. 'A' Maxar Technologies, Inc.	USD USD	147 354	4,475 18,316	0.02
Kronos Worldwide, Inc. Krystal Biotech, Inc.	USD USD	98 104	921 8,239	0.00	Maximus, Inc.	USD	290	21,266	0.09
Kura Oncology, Inc.	USD	298	3,698	0.02	MaxLinear, Inc. 'A'	USD	347	11,781	0.06
Kymera Therapeutics, Inc.	USD	188	4,692	0.02	McGrath RentCorp	USD	116	11,454	0.06
Kyndryl Holdings, Inc.	USD	981	10,909	0.06	MDC Holdings, Inc.	USD	270	8,532	0.04
Ladder Capital Corp., REIT 'A'	USD	537	5,391	0.03	MDU Resources Group, Inc.	USD	976	29,612	0.15 0.01
Lakeland Bancorp, Inc. Lakeland Financial Corp.	USD USD	311 121	5,477 8,829	0.03 0.05	MediaAlpha, Inc. 'A' Medical Properties Trust, Inc., REIT	USD USD	112 2,872	1,114 31,994	0.01
Lamar Advertising Co., REIT 'A'	USD	418	39,459	0.03	Medifast, Inc.	USD	53	6,114	0.03
Lancaster Colony Corp.	USD	95	18,744	0.10	Medpace Holdings, Inc.	USD	121	25,702	0.13
Landstar System, Inc.	USD	173	28,182	0.15	Merchants Bancorp	USD	122	2,967	0.02
Lantheus Holdings, Inc.	USD	330	16,817	0.09	Mercury General Corp.	USD	128	4,378	0.02
Laredo Petroleum, Inc. Latham Group, Inc.	USD USD	81 201	4,165 647	0.02	Mercury Systems, Inc. Meridian Bioscience, Inc.	USD USD	278 208	12,438 6,908	0.06
Lattice Semiconductor Corp.	USD	659	42,756	0.00	MeridianLink, Inc.	USD	97	1,332	0.01
Laureate Education, Inc. 'A'	USD	643	6,186	0.03	Merit Medical Systems, Inc.	USD	273	19,279	0.10
La-Z-Boy, Inc.	USD	206	4,701	0.02	Meritage Homes Corp.	USD	174	16,043	0.08
LCI Industries	USD	122	11,279	0.06	Mersana Therapeutics, Inc. Mesa Laboratories, Inc.	USD USD	432 24	2,532 3,989	0.01
Legalzoom.com, Inc. Leggett & Platt, Inc.	USD USD	454 637	3,514 20,531	0.02 0.11	Methode Electronics, Inc.	USD	174	7,720	0.02
Lemonade, Inc.	USD	214	2,928	0.02	MFA Financial, Inc., REIT	USD	435	4,285	0.02
LendingClub Corp.	USD	493	4,338	0.02	MGE Energy, Inc.	USD	173	12,179	0.06
Leslie's, Inc.	USD	723	8,828	0.05	MGIC Investment Corp.	USD	1,444	18,772	0.10
Levi Strauss & Co. 'A'	USD	472	7,325	0.04	MGP Ingredients, Inc. MicroStrategy, Inc. 'A'	USD	73	7,766 6,371	0.04
LGI Homes, Inc. Liberty Energy, Inc. 'A'	USD USD	97 744	8,982 11,911	0.05 0.06	Microvast Holdings, Inc.	USD USD	45 1,063	1,626	0.03
Liberty Latin America Ltd. 'A'	USD	175	1,318	0.00	MicroVision, Inc.	USD	787	1,849	0.01
Liberty Latin America Ltd. 'C'	USD	714	5,426	0.03	Middleby Corp. (The)	USD	258	34,546	0.18
Liberty Media CorpLiberty Braves 'A'	USD	50	1,634	0.01	Middlesex Water Co.	USD	84	6,608	0.03
Liberty Media CorpLiberty Braves 'C'	USD	178	5,737	0.03	MillerKnoll, Inc. Minerals Technologies, Inc.	USD USD	361	7,585 9,472	0.04 0.05
Liberty Media CorpLiberty Formula One 'A'	USD	115	6,144	0.03	Mirati Therapeutics, Inc.	USD	156 248	11,237	0.05
Liberty Media CorpLiberty Formula One	USD	113	0,1	0.03	Mirion Technologies, Inc.	USD	581	3,840	0.02
'C'	USD	991	59,242	0.31	Mission Produce, Inc.	USD	194	2,254	0.01
Life Storage, Inc., REIT	USD	408	40,188	0.21	Mister Car Wash, Inc.	USD	377	3,480	0.02
Life Time Group Holdings, Inc. LifeStance Health Group, Inc.	USD USD	268 448	3,205 2,213	0.02 0.01	MKS Instruments, Inc.	USD	274	23,216	0.12
Ligand Pharmaceuticals, Inc.	USD	77	5,144	0.01	Model N, Inc. ModivCare, Inc.	USD USD	160 61	6,490 5,474	0.03
Light & Wonder, Inc.	USD	452	26,487	0.14	Moelis & Co. 'A'	USD	304	11,664	0.05
Lightwave Logic, Inc.	USD	533	2,297	0.01	Mohawk Industries, Inc.	USD	253	25,862	0.13
Lincoln Electric Holdings, Inc.	USD	276	39,879	0.21	Momentive Global, Inc.	USD	609	4,263	0.02
Lions Cata Entertainment Corp. 'A'	USD	54	8,794	0.05	Monarch Casino & Resort, Inc.	USD	64	4,921	0.03
Lions Gate Entertainment Corp. 'A' Lions Gate Entertainment Corp. 'B'	USD USD	289 595	1,650 3,231	0.01 0.02	MoneyGram International, Inc.	USD	462	5,031	0.03
Lithia Motors, Inc. 'A'	USD	131	26,821	0.02	Monro, Inc. Montauk Renewables, Inc.	USD USD	155 304	7,006 3,353	0.04
Littelfuse, Inc.	USD	119	26,204	0.14	Montrose Environmental Group, Inc.	USD	130	5,771	0.02
Live Oak Bancshares, Inc.	USD	157	4,741	0.02	Moog, Inc. 'A'	USD	139	12,199	0.06
Livent Corp.	USD	860	17,088	0.09	Morningstar, Inc.	USD	121	26,207	0.14
LivePerson, Inc.	USD	336	3,407	0.02	Morphic Holding, Inc.	USD	142	3,799	0.02
LiveRamp Holdings, Inc. Louisiana-Pacific Corp.	USD USD	320 344	7,501 20,365	0.04 0.11	MP Materials Corp.	USD	444	10,780	0.06
LSB Industries, Inc.	USD	344 244	3,245	0.02	Mr Cooper Group, Inc. MSA Safety, Inc.	USD USD	341 175	13,684 25,233	0.07 0.13
LTC Properties, Inc., REIT	USD	194	6,893	0.02	MSC Industrial Direct Co., Inc. 'A'	USD	225	25,255 18,383	0.13
Lumentum Holdings, Inc.	USD	330	17,216	0.09	Mueller Industries, Inc.	USD	273	16,107	0.08
Luminar Technologies, Inc. 'A'	USD	1,124	5,564	0.03	Mueller Water Products, Inc. 'A'	USD	745	8,016	0.04
LXP Industrial Trust, REIT	USD	1,332	13,347	0.07	Multiplan Corp.	USD	1,135	1,305	0.01
Lyell Immunopharma, Inc.	USD	695	2,412	0.01					

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Murphy Oil Corp.	USD	701	30,150	0.16	Opendoor Technologies, Inc.	USD	2,438	2,828	0.01
Murphy USA, Inc. Myers Industries, Inc.	USD USD	99 175	27,674 3,890	0.14 0.02	OPKO Health, Inc. Option Care Health, Inc.	USD USD	1,948 742	2,435 22,327	0.01 0.12
MYR Group, Inc.	USD	79	7,274	0.02	Organon & Co.	USD	1,220	34,075	0.12
Myriad Genetics, Inc.	USD	390	5,659	0.03	Origin Bancorp, Inc.	USD	139	5,101	0.03
N-able, Inc.	USD	322	3,310	0.02	Ormat Technologies, Inc.	USD	235	20,323	0.10
Nabors Industries Ltd.	USD	44	6,814	0.04	Oscar Health, Inc. 'A'	USD	520	1,279	0.01
NanoString Technologies, Inc. Napco Security Technologies, Inc.	USD USD	208 140	1,658 3,847	0.01 0.02	Oshkosh Corp. OSI Systems, Inc.	USD USD	315 85	27,780 6,759	0.14
Natera, Inc.	USD	524	21,049	0.02	Otter Tail Corp.	USD	200	11,742	0.05
National Bank Holdings Corp. 'A'	USD	181	7,615	0.04	Outfront Media, Inc., REIT	USD	701	11,623	0.06
National Beverage Corp.	USD	112	5,211	0.03	Outset Medical, Inc.	USD	233	6,016	0.03
National Fuel Gas Co.	USD	439	27,789	0.14	Overstock.com, Inc.	USD	217	4,201	0.02
National Health Investors, Inc., REIT National HealthCare Corp.	USD	212 64	11,071 3,808	0.06 0.02	Ovintiv, Inc. Owens & Minor, Inc.	USD USD	1,193 363	60,497 7,089	0.31
National Instruments Corp.	USD USD	634	23,395	0.02	Oxford Industries, Inc.	USD	72	6,709	0.04
National Research Corp.	USD	67	2,499	0.01	Pacific Biosciences of California, Inc.	USD	999	8,172	0.04
National Retail Properties, Inc., REIT	USD	858	39,262	0.20	Pacific Premier Bancorp, Inc.	USD	456	14,391	0.07
National Storage Affiliates Trust, REIT	USD	407	14,701	0.08	Pacira BioSciences, Inc.	USD	220	8,494	0.04
National Vision Holdings, Inc.	USD	376	14,574	0.08	Pactiv Evergreen, Inc.	USD	191	2,170	0.01
Navient Corp. Navitas Semiconductor Corp.	USD USD	511 369	8,406 1,295	0.04 0.01	PacWest Bancorp PagerDuty, Inc.	USD USD	560 390	12,852 10,358	0.07 0.05
NBT Bancorp, Inc.	USD	204	8,858	0.01	Palomar Holdings, Inc.	USD	121	5,464	0.03
nCino, Inc.	USD	365	9,651	0.05	Papa John's International, Inc.	USD	154	12,676	0.07
NCR Corp.	USD	661	15,474	0.08	Par Pacific Holdings, Inc.	USD	266	6,185	0.03
Necessity Retail REIT, Inc. (The)	USD	640	3,795	0.02	PAR Technology Corp.	USD	129	3,363	0.02
Nektar Therapeutics 'A' Nelnet, Inc. 'A'	USD USD	892 86	2,016 7,805	0.01 0.04	Paragon 28, Inc. Paramount Group, Inc., REIT	USD USD	123 804	2,351 4,776	0.01
Neogen Corp.	USD	1,029	15,672	0.04	Park Hotels & Resorts, Inc., REIT	USD	1,081	12,745	0.02
NeoGenomics, Inc.	USD	607	5,609	0.03	Park National Corp.	USD	70	9,853	0.05
NETGEAR, Inc.	USD	138	2,499	0.01	Parsons Corp.	USD	158	7,308	0.04
NetScout Systems, Inc.	USD	329	10,696	0.06	Pathward Financial, Inc.	USD	140	6,027	0.03
Nevro Corp.	USD	169	6,692	0.03	Patrick Industries, Inc.	USD	103	6,242	0.03
New Fortress Energy, Inc. 'A' New Jersey Resources Corp.	USD USD	227 528	9,629 26,199	0.05 0.14	Patterson Cos., Inc. Patterson-UTI Energy, Inc.	USD USD	413 1,040	11,576 17,514	0.06 0.09
New Relic, Inc.	USD	280	15,806	0.08	Paya Holdings, Inc.	USD	415	3,266	0.02
New York Community Bancorp, Inc.	USD	3,269	28,113	0.15	Paycor HCM, Inc.	USD	225	5,506	0.03
New York Mortgage Trust, Inc., REIT	USD	1,798	4,603	0.02	Payoneer Global, Inc.	USD	940	5,142	0.03
New York Times Co. 'A'	USD	788	25,578	0.13	PBF Energy, Inc. 'A'	USD	545	22,225	0.11
Newell Brands, Inc. Newmark Group, Inc. 'A'	USD	1,808 616	23,649 4,910	0.12 0.03	PC Connection, Inc. PDC Energy, Inc.	USD USD	54 443	2,533 28,122	0.01 0.15
NewMarket Corp.	USD USD	33	10,267	0.05	Peabody Energy Corp.	USD	560	14,795	0.13
NexPoint Residential Trust, Inc., REIT	USD	110	4,787	0.02	Pebblebrook Hotel Trust, REIT	USD	631	8,449	0.04
Nexstar Media Group, Inc. 'A'	USD	181	31,680	0.16	Pediatrix Medical Group, Inc.	USD	402	5,974	0.03
NextDecade Corp.	USD	278	1,373	0.01	Pegasystems, Inc.	USD	197	6,745	0.03
NextGen Healthcare, Inc. NexTier Oilfield Solutions, Inc.	USD	265	4,977 6,985	0.03 0.04	Peloton Interactive, Inc. 'A'	USD	1,507	11,966	0.06 0.11
Nicolet Bankshares, Inc.	USD USD	756 64	5,107	0.04	Penn Entertainment, Inc. PennyMac Financial Services, Inc.	USD USD	745 150	22,127 8,499	0.11
Nikola Corp.	USD	1,634	3,529	0.02	PennyMac Mortgage Investment Trust,	usb	150	0,177	0.01
NMI Holdings, Inc. 'A'	USD	403	8,423	0.04	REIT	USD	431	5,340	0.03
Nordson Corp.	USD	258	61,332	0.32	Penske Automotive Group, Inc.	USD	120	13,792	0.07
Nordstrom, Inc.	USD	535	8,635	0.04	Penumbra, Inc. Perficient, Inc.	USD USD	182 166	40,488 11,592	0.21 0.06
Northern Oil & Gas, Inc. Northfield Bancorp, Inc.	USD USD	326 201	10,047 3,162	0.05 0.02	Performance Food Group Co.	USD	744	43,442	0.00
Northwest Bancshares, Inc.	USD	603	8,430	0.04	Permian Resources Corp. 'A'	USD	964	9,062	0.05
Northwest Natural Holding Co.	USD	169	8,043	0.04	Petco Health & Wellness Co., Inc. 'A'	USD	383	3,631	0.02
NorthWestern Corp.	USD	374	22,193	0.11	PGT Innovations, Inc.	USD	288	5,172	0.03
Norwegian Cruise Line Holdings Ltd.	USD	2,021	24,737	0.13	Phillips Edison & Co., Inc., REIT	USD	556	17,703	0.09
NOV, Inc. Novanta, Inc.	USD	1,913	39,963 23,370	0.21 0.12	Photronics, Inc. Phreesia, Inc.	USD USD	296 253	4,982 8,187	0.03 0.04
Novaria, inc.	USD USD	172 377	3,876	0.12	Physicians Realty Trust, REIT	USD	1,096	15,859	0.08
NOW, Inc.	USD	527	6,693	0.03	Piedmont Lithium, Inc.	USD	78	3,434	0.02
Nu Skin Enterprises, Inc. 'A'	USD	240	10,118	0.05	Piedmont Office Realty Trust, Inc., REIT 'A'	USD	587	5,383	0.03
Nutanix, Inc. 'A'	USD	1,106	28,811	0.15	Pilgrim's Pride Corp.	USD	216	5,126	0.03
NuVasive, Inc.	USD	250	10,310	0.05	Pinnacle Financial Partners, Inc. Piper Sandler Cos	USD	367	26,938 8,723	0.14 0.05
NV5 Global, Inc. Oak Street Health, Inc.	USD USD	60 561	7,939 12,067	0.04 0.06	Pitney Bowes, Inc.	USD USD	67 776	2,949	0.03
Oceaneering International, Inc.	USD	477	8,343	0.04	PJT Partners, Inc. 'A'	USD	118	8,695	0.04
OceanFirst Financial Corp.	USD	284	6,035	0.03	Planet Fitness, Inc. 'A'	USD	401	31,599	0.16
ODP Corp. (The)	USD	204	9,290	0.05	Planet Labs PBC	USD	908	3,950	0.02
Office Properties Income Trust, REIT	USD	231	3,084	0.02	Plexus Corp.	USD	133	13,690	0.07
OGE Energy Corp.	USD	1,121	44,336	0.23	Pliant Therapeutics, Inc. PMV Pharmaceuticals, Inc.	USD USD	161 155	3,112 1,349	0.02
O-I Glass, Inc. Olaplex Holdings, Inc.	USD USD	742 406	12,295 2,115	0.06 0.01	PNM Resources, Inc.	USD	413	20,150	0.10
Old National Bancorp	USD	1,408	25,316	0.01	Polaris, Inc.	USD	265	26,765	0.14
Old Republic International Corp.	USD	1,360	32,844	0.17	Portillo's, Inc. 'A'	USD	174	2,840	0.01
Olin Corp.	USD	612	32,399	0.17	Portland General Electric Co.	USD	428	20,972	0.11
Ollie's Bargain Outlet Holdings, Inc.	USD	277	12,975	0.07	Post Holdings, Inc.	USD	261	23,558	0.12
Omega Flex, Inc.	USD	14	1,306	0.01	PotlatchDeltic Corp., REIT Power Integrations, Inc.	USD USD	389 275	17,112 19,723	0.09 0.10
Omega Healthcare Investors, Inc., REIT OmniAb, Inc., 12.50 Earn-out	USD USD	1,123 29	31,388 0	0.16 0.00	Power Integrations, Inc. PowerSchool Holdings, Inc. 'A'	USD	153	3,531	0.10
OmniAb, Inc., 12.30 Earn-out	USD	29 29	0	0.00	PRA Group, Inc.	USD	192	6,486	0.02
Omnicell, Inc.	USD	212	10,689	0.06	Preferred Bank	USD	63	4,701	0.02
ONE Gas, Inc.	USD	260	19,687	0.10	Premier Financial Corp.	USD	170	4,585	0.02
OneMain Holdings, Inc. 'A' Onto Innovation, Inc.	USD USD	593 236	19,753 16,069	0.10 0.08	Premier, Inc. 'A' Prestige Consumer Healthcare, Inc.	USD USD	571 239	19,974 14,961	0.10 0.08

Schedule of Investments (continued)

Primiting Services Corp.   150   275   2,385   0.33   Primiting Services Corp.   150   255   2,525	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Pannotifs Ferrieres (ann.)  190									20,391	0.11
Plots is earth Scropp. Inc.  Procedurarinans Corr. (150) 2-25 5-466 6.073 567 feature, inc.  ISSN 12-25 5-467 6.073 567 6.073 567 feature, inc.  ISSN 12-25 5-467 6.073 567 6.07						, , , , , , , , , , , , , , , , , , , ,				0.02
Production Corp.  1950   26.9   4.477   0.07   Solin beach From Filt From   1950   1.109   17.77   7.46   1960   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   17.77   7.46   1970   1.109   1.109   1.109   1970   1.109   1.109   1.109   1970   1.109   1.109   1.109   1970   1.109   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970   1.109   1.109   1970	•									0.03
Processe Enchnologies, inf.         USD         332         15.644         AOS         Safety Microarce Group, Nr.         USD         17         5.398           Processe Confidence Corp.         USD         232         3.706         OS         Safety Microarce Group, Nr.         USD         7.598           Progress Confidence Corp.         USD         207         D.444         O.05         Safety Microarce Group, Nr.         USD         3.60         3.60         O.05         Safety Microarce Group, Nr.         USD         3.60         3.60         O.05         Safety Microarce Group, Nr.         USD         3.60         A.05         Safety Safety Middles, Nr.         USD         4.67         O.05         Safety Safety Middles, Nr.         USD         4.67         O.05         Safety Safety Middles, Nr.         USD         4.79         O.05         Safety Safety Middles, Nr.         USD         4.70         O.05         Safety Middles, Nr.         USD         2.70         Safety Middles, Nr.         USD         2.70	* *									0.07
Profice fieldings Corp. A' USD 122 3,3269 CDD 35499 [Insurance from June 1050 70 5,3299 Per Profice fieldings (Corp. USD 1050										0.05
PROS HORIZON COLUMN C	-									0.02
Progress Software Corp.  195   207   10,443   0.05   534 lin. III.  196   10,479   10,070   1										0.03 0.05
Progrym, III.  195   362   11.276   0.005   361/February Holdings, Inc.  195   466   12.666   0.2656   0.2556										0.03
Prometties Biosciences, Inc.   USD   166   18,260   0.07   Samarara, Inc.   W   USD   479   5054   PROSI Midney, Inc.   USD   140   4.770   0.02   Samarara, Inc.   W   USD   150										0.03
PROS Holdings, Inc.  1850 194 4-706 0.012 Samply spring Battery Inc.  1850 194 3-1967 0.16 Sampum Therapeulics, Inc.  1850 193 3-1967 0.16 Sampum Therapeulics, Inc.  1850 193 194 14-76 0.00 Sampum Therapeulics, Inc.  1850 197 197 7-76 0.00 Sampum Therapeulics, Inc.  1850 197 197 197 197 197 197 197 197 197 197			166				USD	479	5,954	0.03
Property Banchanes, Inc.  USD 439 33,997 01.6 Sangsmor Therappenics, Inc.  USD 431 33,997 01.6 Sangsmor Therappenics, Inc.  USD 431 33,99 00.2 Sarepta Therappenics, Inc.  USD 431 33,99 00.2 Sarepta Therappenics, Inc.  USD 435 13,309 00.2 Sarepta Therappenics, Inc.  USD 436 13,309 00.2 Sarepta Therappenics, Inc.  USD 437 13,409 00.2 Sarepta Therappenics, Inc.  USD 436 13,409 00.2 Sarepta Therappenics, Inc.  USD 436 13,409 00.2 Sarepta Therappenics, Inc.  USD 436 13,409 00.2 Sarepta Therappenics, Inc.  USD 426 13,409 00.2 Sarepta Therappenics, Inc.  USD 426 13,409 00.2 Sarepta Therappenics, Inc.  USD 426 13,409 00.2 Sarepta Therappenics, Inc.  USD 437 13,409 00.2 Sarepta Therappenics, Inc.  USD 438 13,409 00.2 Sarepta Therappenics, Inc.  USD 438 13,409 00.2 Sarepta Therappenics, Inc.  USD 137 13,409 00.2 Sarepta Therappenics, Inc.  USD 138 13,409 00.2 Sarepta Therappenics, Inc.  USD										0.01
Proteir a. Inc.    1959   922   3.476   0.02   Sammina Corp.   USD   275   15,755     1970 a lab., Inc.   USD   303   3.19   0.02   Same Threapendics, Inc.   USD   421   34,245     1970   197	-									0.04
Probate   Faminal Services, Inc.										0.02
Provident Financial Services, Inc.										0.28
PFC Therapeutics, Inc.    155										0.01
Pure Storage, Inc. "4"			345			ScanSource, Inc.	USD	122	3,565	0.02
PureCycle Technologies, Inc.										0.02
Pivil Corp.  USD 314 22.165 D.11 Schrodinger, inc.  USD 257 7.44 3.004 Schrodinger, inc.  USD 267 99.165 Coalear Chemical Corp.  USD 65 10,849 0.00 Schrodinger inc.  USD 10.65 10,849 0.00 Schrodinger, inc.  USD 10.65 10,849 0.00 Schrodinger, inc.  USD 11. 10.50 1.00 Schrodinger, inc.  USD 12. 13. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12										0.02
Q2 Holdings, Inc.  USD 277 7.443 0.04 Science Applications international Corp.  USD 52 5.522 0.03 Seaboard Corp.  USD 10 512 9.2320 Qualtrics international, Inc. "A" USD 52 5.522 0.03 Seaboard Corp.  USD 11 3.775 Quante Building Froducts Corp.  USD 12 13 3.775 Quante Building Froducts Corp.  USD 1.08 12 3.775 Quante Building Froducts Corp.  USD 1.08 12 3.775 Quante Building Froducts Corp.  USD 1.08 2.727 Quarte Retail, Inc.  USD 1.08 2.727 Quarte Retail, Inc.  USD 654 7.161 Quarte Building Froducts Corp.  USD 283 8.55 Quarte Building Froducts Corp.  USD 283 8.75 Quarte Building Froducts Corp.  USD 284 9.75 Quarte Building Froducts Corp.  USD 284 9.75 Quarte Building Froducts Corp.  USD 285 9.75 Quarte Building Froducts Corp.  USD 285 9.75 Quarte Building Froducts Corp.  USD 286 9.864 0.05 Quarte Building Froducts Corp.  USD 286 9.864 0.05 Quarte Building Froducts Corp.  USD 286 9.864 0.05 Quarte Building Fro										0.03
Qualete Chemical Corn.	•									0.02
Qualtris: international, Inc., "A" USD 532 5.522 0.03 Seaboard Corp. USD 167 18-742 0.10 Seaboard Corp. USD 159 3.765 0.02 Seaboard Entertainment, Inc. USD 190 10.167 Quantum Scape Corp. "A" USD 159 3.765 0.02 Seaboard Entertainment, Inc. USD 190 10.167 Quantum Scape Corp. "A" USD 257 22,017 0.11 Selective Insurance Group, Inc. USD 257 22,017 0.11 Selective Insurance Group, Inc. USD 258 2877 0.01 Selective Insurance Group, Inc. USD 258 2877 0.02 Semicional Entertainment, Inc. USD 258 2877 0.02 Semicional Semicional Selective Insurance Group, Inc. USD 259 1.02 Semicional Semicional Selective Insurance Group, Inc. USD 259 1.02 Semicional Selective Insurance Group, Inc. USD 259 1.02 Semicional Semicional Selective Insurance Group, Inc. USD 259 1.02 Semicional Semicional Selective Insurance Group, Inc. USD 259 1.02 Semicional Semicional Selective Insurance Group, Inc. USD 259 1.02 Semicional Selective Insurance Group, Inc. USD 259 1.02 Semicional Semicional Selective Insurance Group, Inc. USD 259 1.02 Semicional Semicional Selective Insurance Group, Inc. USD 259 1.02 Semicional Semiciona										0.05
Quante Sque Forp, 'a'         USD         159         3,765         O.U.         Seeder Medical Holdings Corp.         USD         190         10,167           Quantum Scape Corp, 'a'         USD         257         2,017         Out.         Select Medical Holdings Corp.         USD         500         12,618           Quarae Refall Inc.         USD         654         7,161         Out.         Select Medical Holdings Corp.         USD         303         38,939           RI RM, Inc.         USD         654         7,161         Out.         Semical Technology, Inc.         USD         22,98         2,867           RI RM, Inc.         USD         233         4,764         Out.         Semical Technology, Inc.         USD         2,28         2,867           Robbel, Inc.         USD         233         4,764         Out.         Service Corp.         USD         1,01         2,98         2,145           Raph Lauren Corp. 'A'         USD         188         2,92         2.01         Service Forp.         USD         1,02         2,92         2.01         Service Forp. International         USD         7,93         5,796         Rapid For, Inc.         USD         2,63         5,876         Rapid For, Inc.         USD         2				5,522		Seaboard Corp.				0.02
Quantumiscape Corp. "A"         USD         1.356         7.5975         O.04         Selective Medical Holdings Corp.         USD         500         12-54           Quidellortho Corp.         USD         1.618         2.637         0.01         Selective Insurance Group, Inc.         USD         303         8.093           REKCM, Inc.         USD         263         8.35         0.00         Senseonics Holdings, Inc.         USD         203         8.093           Rackback, Inc.         USD         263         8.35         0.00         Senseonics Holdings, Inc.         USD         203         8.093           Radidin Group, Inc.         USD         263         4.764         0.02         Senseonics Holdings, Inc.         USD         203         1.608           Radidin Crop, Inc.         USD         263         4.764         0.02         Service Corp.         USD         203         1.608         2.002         1.608         2.002         2.001         1.608         2.002         2.001         1.608         2.002         2.001         1.608         2.002         2.001         2.002         2.001         2.002         2.002         2.001         2.002         2.002         2.003         2.002         2.003         2.002	Qualys, Inc.	USD	167	18,742		Seacoast Banking Corp. of Florida	USD		10,667	0.06
Quidel Orbito Corp.										0.05
Ourate Refaal, Inc.  USD 16,18										0.06
RI RCM, Inc.  USD 654 7,161 0.04  Rackspare Fethnology, Inc.  USD 283 835 0.02  Radian Group, Inc.  USD 283 835 0.02  Radian Group, Inc.  USD 253 4,764 0.02  Sentinellone, Inc. "X USD 1.013 14,786  Ralph Lauren Corp." "USD 443 2-881  Ralph Lauren Corp." "USD 1.60  Service Corp. International USD 739 51,094  Range Resources Corp.  USD 1.60 29,023 0.11  Service Properties Trust, REIT USD 795  S.796  Range Resources Corp.  USD 1.60 29,023 0.15  Servisifier Banchares, Inc.  USD 285 9,884 0.05  SES Al Corp.  USD 681 2.145  Rayonier, Inc., REIT USD 793 22,171 0.12  Share Stanks, Inc.  USD 183 92,000 0.05  Servisifier Banchares, Inc.  USD 183 139 22,171 0.12  Share Stanks, Inc.  USD 183 139 22,100 0.05  Share Stanks, Inc.  USD 183 5,400 0.03  Share Stanks, Inc.  USD 183 139 38,274 0.02  Share Stanks, Inc.  USD 180 6,814 0.03  Share Stanks, I										0.13 0.04
Rackspace Technology, Inc. USD 283 835 0.00 Sensient Technologies Corp. USD 769 14.665 0.00 Sentient Technologies Corp. USD 1.03 14.780 RadMet, Inc. USD 253 4.764 0.02 Sentient Technologies Corp. USD 198 20.923 0.11 Service Corp. International USD 739 5.094 Rambus, Inc. USD 198 27 18.877 0.10 Sentient Corp. International USD 739 5.1094 Rambus, Inc. USD 255 9.684 0.05 SES AI Corp. USD 1.160 279.023 0.10 Senvice Properties Trust, REIT USD 795 5.796 Rapidr, Inc. USD 285 9.684 0.05 SES AI Corp. USD 198 229.100 0.15 Sharecare, Inc. USD 139 29.100 0.15 Sharecare, Inc. USD 139 29.100 0.15 Sharecare, Inc. USD 139 29.100 0.15 Sharecare, Inc. USD 139 39 29.100 0.15 Sharecare, Inc. USD 139 39 29.100 0.15 Sharecare, Inc. USD 129 37.795 Reata Pharmaceuticials, Inc. 'A' USD 133 5.073 0.03 Shehandon's Technologies Corp., Inc. 'A' USD 239 1.795 Reata Pharmaceuticials, Inc. 'A' USD 237 9.482 0.05 Shoals Technologies Corp., Inc. 'A' USD 239 1.795 Reata Pharmaceuticials, Inc. 'A' USD 239 3.8274 0.20 Shifted Pharments, Inc. 'A' USD 653 16.110 Regil Record Corp. USD 538 3.637 0.02 Shifted Pharments, Inc. 'A' USD 633 16.110 Regil Record Corp. USD 538 3.637 0.02 Shifted Pharments, Inc. 'A' USD 138 3.637 0.02 Shifted Pharments, Inc. 'A' USD 138 3.637 0.03 Shifted Pharments, Inc. 'A' USD 633 16.110 Regil Remord Corp. USD 369 38.274 0.20 Shifted Pharments, Inc. 'A' USD 134 3.5073 Regil Remord Corp. USD 363 3.637 0.03 Shifted Pharments, Inc. 'A' USD 134 3.5073 Regil Remord Corp. USD 363 8.647 0.04 Shifted Pharments, Inc. 'A' USD 134 3.5073 Regil Remord Corp. USD 363 8.292 0.02 Shifted Pharments, Inc. 'A' USD 134 3.5073 Regil Remord Corp. USD 363 8.292 0.03 Shifted Pharments, Inc. 'A' USD 134 3.5073 Regil Remord Corp. USD 363 8.292 0.03 Shifted Pharments, Inc. 'A' USD 134 3.5073 Regil Remord Corp. USD 363 8.292 0.03 Shifted Pharments, Inc. 'A' USD 134 3.3073 Repliance Group, Inc. 'A' USD 363 8.292 0.03 Shifted Pharments, Inc. 'A' USD 184 3.3093 Repliance Group, Inc. 'A' USD 363 8.4947 0.04 Shifted Pharments (Inc. USD 184 8.399 0.02 Shifte										0.04
Radinet (nc. USD 759 H.4.6.65 U.88 sentinellone, Inc. "A" USD 1,013 H.7.98 Radhet, Inc. USD 5253 H.7.64 U.85 C.9.23 U.11 Sentinellone, Inc. "A" USD 4.43 2.481 Ralpht Lauren Corp. "A" USD 198 U.5.9.23 U.11 Sentinellone, Inc. "A" U.5.0 T.7.9 5.1.094 Ranghe Resources Corp. USD 1.1.60 U.5.0 S.7.9 5.7.96 Range Resources Corp. USD 1.1.60 U.5.0 2.90.23 U.15 Sentinellone, Inc., REIT U.5.0 7.95 5.7.96 Range Resources Corp. USD 1.1.60 U.5.0 2.85 S.9.684 U.0.5 SES. Al Corp. U.5.0 6.81 2.1.45 Rayonier, Inc., REIT U.5.0 1.30 1.39 2.31.11 U.5.0 1.50 1.50 1.50 1.50 1.50 1.50 1.50										0.08
Ralph Lauren Corp. 'A' Rambus, Inc. USD 527 18.877 al. Service Corp. International USD 739 51,094 Range Resources Corp. USD 1160 29,023 0.15 ServisiFirst Bancshares, Inc. USD 285 9,684 0.05 SES AC Corp. USD 139 29,100 0.15 Scharces, Inc. USD 139 29,100 0.15 Scharces, Inc. USD 139 29,100 0.15 Scharces, Inc. Ready Capital Corp., REIT USD 73 22,171 0.12 Shake Shack, Inc. 'A' USD 128 51,510 2,416 Ready Capital Corp., REIT USD 485 54,03 0.03 Silf-Ready Capital Corp., REIT USD 133 5,053 0.03 Silf-Ready Capital Corp., REIT USD 517 2,192 0.05 Scharces, Inc. USD 139 5,053 0.03 Silf-Ready Capital Corp., REIT USD 538 3,636 0.02 Silf-Ready Capital Corp. Redin Corp. USD 517 2,192 0.01 Schorcewed Medical, Inc. USD 538 3,637 0.02 Silf-Ready Capital Corp. USD 319 38,274 0.05 Schorce Wedler, Inc. USD 130 36,244 0.05 Schorce Wedler, Inc. USD 130 430 6,424 0.03 Silgar Lewelers Ltd. USD 130 430 6,424 0.03 Silgar Lewelers Ltd. USD 231 55,486 0.29 Signify Health, Inc. 'A' USD 335 9,601 Relating Steel & Aluminum Co. USD 281 56,886 0.29 Silf-Ready Resource, Inc. USD 430 6,424 0.03 Silgar Health, Inc. 'A' USD 181 2,627 Renasant Corp. Renasant Corp. USD 240 5412 0.03 Silf-Ready Medical, Inc. USD 240 5,412 0.03 Silf-Ready Medical, Inc. USD 140 4,037 0.05 Silf-Ready Medical, Inc. USD 468 5,359 0.03 Silf-Ready Medical, Inc. USD 140 4,037 0.05 Silf-Ready Medical, Inc. USD 140 20,788 86 0.29 Silf-Ready Medical, Inc. USD 140 20,78				14,665	0.08					0.08
Rambus, Inc. Rambu										0.01
Range Resources Corp.  USD   1,160   29,023   0,15   5 ervis/First Bancshares, Inc.   USD   255   1,194   Rappioff, Inc.   USD   285   9,684   0,05   555   1,670   USD   0,681   2,148   2,392   2,3171   0,12   5 hake Shack, Inc. 'A'   USD   178   2,392										0.26
Rapid7, Inc.   USD   285   9.684   0.05   SES AI COPD   USD   681   2.145   2.458   2.468										0.03
Rayonier, Inc., REIT USD 703 23,171 0.12 Shake Shack, Inc. "A" USD 178 7,392 REG Bearings, Inc. USD 139 29,100 0.15 Shake Shack, Inc. "A" USD 2416 Ready Capital Corp., REIT USD 485 5,403 0.03 Shenandoah Telecommunications Co. USD 239 3,795 Alexa Pharmaceuticals, Inc. "A" USD 255 14,262 Red Rock Resorts, Inc. "A" USD 257 9,482 0.05 Shoals Technologies Group, Inc. "A" USD 255 14,262 Red Rock Resorts, Inc. "A" USD 257 9,482 0.05 Shoals Technologies Group, Inc. "A" USD 173 35,571 Redwood Trust, Inc., REIT USD 538 3,637 0.02 Shoular Serchnologies Group, Inc. "A" USD 173 35,571 Redwood Trust, Inc., REIT USD 538 3,637 0.02 Shoular Serchnologies Group, Inc. "A" USD 173 35,571 Redwood Trust, Inc., REIT USD 180 4,082 0.02 Signel Lewelers Ltd. USD 223 15,164 REGENNBIO, Inc. USD 180 4,082 0.02 Signel Lewelers Ltd. USD 223 15,164 REGENNBIO, Inc. USD 180 4,082 0.02 Signel Lewelers Ltd. USD 223 15,164 REGENNBIO, Inc. USD 430 6,424 0.03 Signel Lewelers Ltd. USD 233 5,600 Realay Therapeutics, Inc. USD 430 6,424 0.03 Signel Lewelers Ltd. USD 233 5,600 Realay Therapeutics, Inc. USD 440 6,424 0.03 Silke and Lewelers Ltd. USD 240 6,424 0.03 Silke and Lewelers Ltd. USD 240 15,6886 0.02 Silke and Lewelers Ltd. USD 240 15,6886 0.02 Silke and Lewelers Ltd. USD 162 21,978 Realant Corp. "USD 248 1,56880 0.02 Silke Road Medical, Inc. USD 162 21,978 Replaymen Group, Inc. "USD 248 1,568 8 1,369 0.03 Silke Road Medical, Inc. USD 164 22,978 Replaymen Group, Inc. "A" USD 248 41,989 0.02 Silke Road Medical, Inc. USD 407 15,478 Replaymen Group, Inc. "A" USD 248 41,989 0.02 Simpson Mandacturing Co., Inc. USD 240 13,176 0.01 Silke Card Medical, Inc. USD 240 13,176 0.01 Silke Road Medical, Inc. USD 240 13,176 0.01 Silke Road Medical, Inc. USD 240 14,146 0.06 Silke Road Medical, Inc. USD 240 14,176 0.06 Simpson Mandacturing Co., Inc. "USD 255 18,175 Regellmane Group, Inc. "A" USD 244 4,188 0.02 Silke Road Medical, Inc. USD 252 Silke Road Medical, Inc.	-									0.08
Red Rearings, Inc.  USD 139 29,100 0.15 Sharecare, Inc.  USD 135 5,033 0.03 Sharecare, Inc.  USD 239 3,795 Reata Pharmaceuticals, Inc. 'A' USD 133 5,053 0.03 Shift a Payments, Inc. 'A' USD 255 14,262 Read Rock Resorts, Inc. 'A' USD 255 14,262 Read Rock Resorts, Inc. 'A' USD 557 14,262 No. 10,50 Shift a Payments, Inc. 'A' USD 653 16,110 Redfin Corp.  Redfin Corp.  USD 517 2,192 0.01 Shockware Medical, Inc.  USD 139 38,274 0.20 Shockware Medical, Inc.  USD 114 6,010 Regal Reword Corp.  USD 139 38,274 0.20 Shockware Medical, Inc.  USD 114 6,010 Regal Reword Corp.  USD 180 4,082 0.05 Shockware Medical, Inc.  USD 129 115,164 REGENKRIO, Inc.  USD 180 4,082 0.03 Shifter Species Ltd.  USD 223 15,164 REGENKRIO, Inc.  USD 400 6,424 0.03 Signet Jewelers Ltd.  USD 233 5,601 REGENKRIO, Inc.  USD 401 6,424 0.03 Signet Jewelers Ltd.  USD 403 6,424 0.03 Signet Jewelers Ltd.  USD 403 6,424 0.03 Signet Jewelers Ltd.  USD 405 6,224 0.03 Signet Jewelers Ltd.  USD 407 6,224 0.03 Signet Jewelers Ltd.  USD 408 5,559 0.03 Silkon Laboratories, Inc.  USD 408 5,559 0.03 Silkon Laboratories, Inc.  USD 408 5,559 0.03 Silkon Laboratories, Inc.  USD 184 9,724 Renasant Corp.  Renasant Corp.  USD 267 10,037 0.05 Silwergate Capital Corp. 'A' USD 184 9,724 Renasant Corp.  Repaly Holdings Corp. 'A' USD 363 2,292 0.02 Simply Good Foods Co. (The) USD 407 15,478 Repligen Corp.  USD 404 5,424 0.03 Silwergate Capital Corp. 'A' USD 611 13,185 Repaly Holdings Corp. Inc.  USD 404 1,1416 0.05 Sirier Landscape Supply, Inc.  USD 405 4,243 0.04 Silvergate Capital Corp. Rel USD 205 18,175 Replimene Group, Inc.  USD 404 1,1416 0.05 Sirier Landscape Supply, Inc.  USD 205 18,175 Replimene Group, Inc.  USD 303 8,647 0.01 Sirier Center Corp.  REIT USD 886 12,103 Read Medical, Inc.  USD 404 4,188 0.02 Silvergate Capital Corp. Rel USD 352 8,184 Revance Therapeutics, Inc.  USD 305 7,926 Very Corp. Rel USD 353 8,144 8,188 0.02 Silvergate Capital Corp. Rel USD 364 8,149 8,184 0.02 Silvergate Capital Corp. Rel USD 364 8,149 8,184 0.02 Silvergate Capital Corp. Rel USD 36										0.04
Reata Pharmaceuticals, Inc. 'A' USD 333 5.053 0.03 Shiff Payments, Inc. 'A' USD 655 14.262 Red Rock Resorts, Inc. 'A' USD 653 16.110 Redfin Corp.  Redfin Corp. USD 517 2,192 0.01 Shockwave Medical, Inc. 'USD 173 35.571 (A.) 1.00 Shockwave Medical, Inc. 'USD 174 (A.) 1.00 Shockwave Me										0.01
Red Rock Resorts, Inc. 'A'         USD         237         9,482         0.05         Sholats Technologies Group, Inc. 'A'         USD         653         16,110           Redfin Corp.         USD         517         2,192         0.01         Shockwave Medical, Inc.         USD         133         35,577           Redword Trust, Inc., REIT         USD         538         3,637         0.02         Shuttertock, Inc.         USD         114         6,010           Regal Pennord         USD         180         4,082         0.02         Signet Jevelers Ltd.         USD         233         9,661           Relar Therapeutics, Inc.         USD         430         6,424         0.03         Sligant Holdings, Inc.         USD         401         20,788           Remity Global, Inc.         USD         468         5,359         0.03         Sliknor Laboratories, Inc.         USD         162         21,979           Remity Global, Inc.         USD         240         5,412         0.03         Sliknor Laboratories, Inc.         USD         151         2,627           Remity Global, Inc.         USD         240         5,412         0.03         Sliknor Abedical, Inc.         USD         151         2,627           Remity Global,		USD								0.02
Redfin Corp.   USD   517   2.192   0.01   Shockwave Medical, Inc.   USD   173   35.571   146.6010   Regal Bewnord Corp.   USD   538   3.637   0.02   Shutterstok, Inc.   USD   143   6.0710   Regal Bewnord Corp.   USD   319   38.274   0.20   Signet Jewelers Ltd.   USD   223   15.164   REGENXBIO, Inc.   USD   319   38.274   0.20   Signet Jewelers Ltd.   USD   235   35.574   0.20   35.164   REGENXBIO, Inc.   USD   335   9.601   0.203   35.164   0.204										0.07
Redwood Trust, Inc., REIT   USD   538   3.637   0.02   Shutterstock, Inc.   USD   114   6.010   Regal Rexnord Corp.   USD   319   38.274   0.20   Signet Heelth, Inc. 'A'   USD   223   15.164   REGENXBIO, Inc.   USD   180   4.082   0.02   Signify Health, Inc. 'A'   USD   335   9.601   Relay Therapeutics, Inc.   USD   430   6.424   0.03   Signa Holdings, Inc.   USD   401   20.788   Relay Therapeutics, Inc.   USD   430   6.424   0.03   Signa Holdings, Inc.   USD   401   20.788   Relaince Steel & Aluminum Co.   USD   468   5.359   0.03   Silk Road Medical, Inc.   USD   184   9.724   Rensaant Corp.   USD   267   10.037   0.05   Silvergate Cartal Corp. 'A'   USD   151   2.627   Rent-A-center, Inc.   USD   246   5.412   0.03   Silmonos First National Corp. 'A'   USD   611   13.185   Repay Holdings Corp. 'A'   USD   611   13.185   Repay Holdings Corp. 'A'   USD   461   41.989   0.22   Simpson Manufacturing Co., Inc.   USD   205   15.478   Repliligen Corp.   USD   248   41.989   0.22   Simpson Manufacturing Co., Inc.   USD   205   3.226   Republic Bancorp, Inc. 'A'   USD   205   3.226   Republic Bancorp, Inc. 'A'   USD   243   1.760   0.01   SITE Center Corp., REIT   USD   286   21.263   Resideo Technologies, Inc.   USD   43   1.760   0.01   SITE Center Corp., REIT   USD   286   21.263   Revalued Ferapeutics, Inc.   USD   363   8.647   0.04   Sike flags Entertainment Corp.   USD   277   25.458   Revalue Therapeutics, Inc.   USD   363   8.647   0.04   Sike flags Entertainment Corp.   USD   352   8.184   Revance Therapeutics, Inc.   USD   363   8.647   0.04   Sike flags Entertainment Corp.   USD   352   8.184   Revance Therapeutics, Inc.   USD   363   8.647   0.04   Sike flags Entertainment Corp.   USD   254   31.048   Revolve Group, Inc. 'A'   USD   642   26.932   Revolve Group, Inc. 'A'   USD   642   26.932   Revolve Group, Inc. 'A'   USD   364   31.304   Revolve Group, Inc. 'A'										0.08
Regal Rexondr Corp. USD 319 38,274 0.20 Signet Jewelers Ltd. USD 223 15,164 REGENNBIO, Inc. USD 180 4,082 0.02 Signet Jewelers Ltd. USD 335 9,601 Relay Therapeutics, Inc. USD 401 20,788 Reliance Steel & Aluminum Co. USD 281 56,886 0.29 Silicon Laboratories, Inc. USD 401 20,788 Reliance Steel & Aluminum Co. USD 281 56,886 0.29 Silicon Laboratories, Inc. USD 162 21,979 Remitly Global, Inc. USD 468 5,359 0.03 Silk Road Medical, Inc. USD 184 9,724 Renasant Corp. USD 267 10,037 0.05 Silvergate Capital Corp. 'A' USD 151 2,627 Renasant Corp. USD 240 5,412 0.03 Silmons First National Corp. 'A' USD 611 13,185 Repay Holdings Corp. 'A' USD 363 2,922 0.02 Simply Good Foods Co. (The) USD 407 15,478 Repligen Corp. USD 248 41,989 0.02 Silicon Handracturing Co., Inc. USD 205 18,175 Replilmune Group, Inc. USD 156 4,243 0.02 Silicon Handracturing Co., Inc. USD 205 18,175 Replilmune Group, Inc. USD 431 1,760 0.01 SITE Centres Corp., REIT USD 886 12,103 Resideo Technologies, Inc. USD 395 7,292 0.04 Silve Group, Inc. 'A' USD 288 8,124 Revance Therapeutics, Inc. USD 395 7,292 0.04 Silve Group, Inc. 'A' USD 255 8,184 Revance Therapeutics, Inc. USD 395 7,292 0.04 Silve Group, Inc. 'A' USD 264 8,104 Revance Therapeutics, Inc. USD 395 194 4,318 0.02 Sikvline Champion Corp. Revolute Thomatial Realty, Inc., REIT USD 881 48,138 0.02 Skyline Champion Corp. Revolute Group, Inc. 'A' USD 44,318 0.02 Sikvline Champion Corp. Revolute Group, Inc. 'A' USD 244 6,232 0.03 Silve Corp., REIT USD 366 10,318 RH USD 371 13,133 0.07 SM Corp. Replilde Corp., REIT USD 386 10,338 RH USD 371 13,133 0.07 SM Corp. Replilde Corp., REIT USD 386 10,398 Rib USD 371 13,133 0.07 SM Corp. USD 164 2,6932 Revolute Group, Inc. 'A' USD 44,318 0.02 Skyline Champion Corp. Replilde Corp., REIT USD 386 10,398 Rib Corp. Replilde Corp., REIT USD 386 10,398 Rib Corp. Rib Hampion Corp.	·									0.18
REĞENKBIO, Inc.										0.03
Relayr Fherapeutics, Inc.  USD 430 6.424 0.03 silgan Holdings, Inc.  USD 162 21,979 Remitty Global, Inc.  USD 281 56.886 0.29 sillion Laboratories, Inc.  USD 162 21,979 Remitty Global, Inc.  USD 267 10,037 0.05 silvergate Capital Corp. 'A' USD 151 2.627 Renasant Corp.  USD 267 10,037 0.05 silvergate Capital Corp. 'A' USD 611 13,185 Repay Holdings Corp. 'A' USD 363 2.922 0.02 simply Good Foods Co. (The) USD 269 407 15,478 Repligen Corp.  USD 484 41,989 0.22 simply Good Foods Co. (The) USD 208 32,226 Republic Bancorp, Inc.  USD 431 1,760 0.01 STE Centers Corp., REIT USD 208 32,226 Republic Bancorp, Inc. 'A' USD 431 1,760 0.01 STE Centers Corp., REIT USD 208 32,226 Republic Bancorp, Inc. 'A' USD 431 1,760 0.01 STE Centers Corp., REIT USD 886 12,103 Repay Holdings Corp.  USD 436 8,647 0.04 Skechers USA, Inc. 'A' USD 363 8,647 0.04 Skechers USA, Inc. 'A' USD 363 8,647 0.04 Skechers USA, Inc. 'A' USD 364 4,318 0.25 Sky Meet Inc.  USD 431 4,318 0.25 SkyWest, Inc.  USD 432 4,318 0.25 SkyWest, Inc.  USD 433 1,333 Slep Number Corp., USD 248 8,401 8,89 0.25 Sky Flags Entertainment Corp.  USD 363 8,647 0.04 Skechers USA, Inc. 'A' USD 364 8,648 8,647 0.04 Skechers USA, Inc. 'A' USD 364 8,648 8,649 0.04 Skechers USA, Inc. 'A' USD 264 7,855 SkyWest, Inc.  USD 371 13,133 0.75 Meern Republic, Inc.  USD 372 1,987 8,401 8,4										0.05
Remity Global, Inc. USD 468 5,359 0.03 Silk Road Medical, Inc. USD 184 9,724 Renasant Corp. USD 267 10,037 0.05 Silvergate Capital Corp. 'A' USD 151 2,627 Rent-A-Center, Inc. USD 240 5,412 0.03 Silwergate Capital Corp. 'A' USD 611 13,185 Repay Holdings Corp. 'A' USD 363 2,922 0.02 Simply Good Foods Co. (The) USD 407 15,478 Repligen Corp. USD 248 41,989 0.22 Simply Good Foods Co. (The) USD 407 15,478 Repligen Corp. USD 156 4,243 0.02 Simply Good Foods Co. (The) USD 208 3,226 Republic Bancorp, Inc. 'A' USD 43 1,264 0.00 SiTE Centers Corp., REIT USD 886 12,103 Resideo Technologies, Inc. USD 694 11,416 0.06 SiTE Centers Corp., REIT USD 886 12,103 Resideo Technologies, Inc. USD 694 11,416 0.06 SiTE Centers Corp., REIT USD 886 12,103 Resideo Technologies, Inc. USD 694 11,416 0.06 SiTE Centers Corp., REIT USD 886 12,103 SiTIme Corp. USD 78 7,926 Retail Opportunity Investments Corp. USD 78 7,926 Retail Opportunity Investments Corp. USD 78 7,926 Nove Corp., Inc. USD 395 7,292 0.04 SiTIme Corp. USD 78 7,926 REVOLUTION Medicines, Inc. USD 395 7,292 0.04 SiTIme Corp. USD 194 4,318 0.02 Sityline Champion Corp. USD 128 10,392 Revolve Group, Inc. 'A' USD 642 26,932 Revolve Group, Inc. 'A' USD 881 48,138 0.25 SixyWest, Inc. USD 881 48,138 0.25 SixyWest, Inc. USD 92 24,581 0.13 Sleep Number Corp. USD 254 13,084 Rex/not Industrial Realty, Inc., EIT USD 881 48,138 0.25 SkyWest, Inc. USD 92 24,581 0.13 Sleep Number Corp. USD 1,197 19,870 RingCentral, Inc. 'A' USD 588 20,480 Ring Gentral, Inc. 'A' USD 588 20,480 Ring Gentral, Inc. 'A' USD 588 20,480 Ring Gentral, Inc. 'A' USD 594 2,4581 0.13 Sleep Number Corp. USD 1,197 19,870 RingCentral, Inc. 'A' USD 588 20,480 Ring Group, Inc. 'A' USD 588 20,480 Ring Group, Inc. 'A' USD 588 20,480 Ring Gentral, Inc. 'A' USD 594 3,878 0.00 Sinch Rengy Co. USD 1,940 1,941 1,942 1,943 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1,944 1			430	6,424	0.03		USD	401	20,788	0.11
Renasart Corp. Rent-A-Center, Inc. Repilmune Group, Inc. USD 240 5.412 0.03 Silvergate Capital Corp. 'A' USD 611 13,185 Rept Holdings Corp. 'A' USD 363 2,922 0.02 Simply Good Foods Co. (The) USD 407 15,478 Reptilgen Corp. USD 248 41,989 0.22 Simply Good Foods Co. (The) USD 205 18,175 Reptilmune Group, Inc. USD 156 4,243 0.02 Simply Good Foods Co. (The) USD 205 18,175 Reptilmune Group, Inc. 'A' USD 208 3,226 Republic Bancorp, Inc. 'A' USD 248 41,989 0.02 Simply Good Foods Co. (The) USD 208 3,226 Republic Bancorp, Inc. 'A' USD 208 43 1,760 0.01 SITE Centers Corp., REIT USD 886 12,103 Resideo Technologies, Inc. USD 694 11,416 0.06 SiteOne Landscape Supply, Inc. USD 217 25,458 SiTIME Corp. USD 78 7,926 REIT USD 610 9,168 0.05 SiteOne Landscape Supply, Inc. USD 352 8,184 Revance Therapeutics, Inc. USD 395 7,292 0.04 SIM Group USD 128 10,392 REVOLUTION Medicines, Inc. USD 363 8,647 0.04 SIM Group USD 128 10,392 Revolve Group, Inc. 'A' USD 642 26,932 Revolve Group, Inc. 'A' USD 642 26,932 Revolve Group, Inc. 'A' USD 881 48,138 0.25 Skyline Champion Corp. USD 194 4,318 0.02 Skyline Champion Corp. USD 254 13,084 Rexford Industrial Realty, Inc., REIT USD 881 48,138 0.25 Skyline Champion Corp. USD 254 13,084 14,012 Reprolds Consumer Products, Inc. USD 814 6,232 0.03 SIM Corp. USD 194 6,232 0.03 SIM Corp. USD 196 10,318 RITH USD 306 10,318										0.11
Renta-Center, Inc.  USD 240 5,412 0.03 Simmons First National Corp. 'A' USD 407 15,478 Repay Holdings Corp. 'A' Repilgen Corp.  USD 363 2,922 0.02 Simply Good Foods Co. (The) USD 407 15,478 Repilgen Corp. USD 248 41,989 0.22 Simpson Manufacturing Co., Inc. USD 205 18,175 Repilmune Group, Inc. WSD 205 18,175 Repilmune Group, Inc. WSD 205 18,175 Repilmune Group, Inc. WSD 43 1,760 0.01 SITE Centers Corp., REIT USD 644 11,416 0.66 SiteOne Landscape Supply, Inc. WSD 78 7,926 SiteOne Landscape Supply, Inc. WSD 79 8 886 12,103 Reside Technologies, Inc. WSD 79 88 14,299 SiteOne Landscape Supply, Inc. WSD 79 8 1,297 SiteOne Lands										0.05
Repay Holdings Corp. 'A'         USD         363         2,922         0.02         Simply Good Foods Co. (The)         USD         407         15,478           Repligen Corp.         USD         248         41,989         0.22         Simpson Manufacturing Co., Inc.         USD         205         18,175           Replimune Group, Inc.         USD         156         4,243         0.02         Sircle in Broadcast Group, Inc. 'A'         USD         208         3,226           Republic Bancorp, Inc. 'A'         USD         43         1,760         0.01         SITE Centers Corp., REIT         USD         886         12,103           Reside Technologies, Inc.         USD         694         11,416         0.06         SiTime Corp.         USD         19         25,458           Retail Opportunity Investments Corp.,         Technologies, Inc.         USD         360         0.05         SiTime Corp.         USD         18         7,926           REVIOR Officines, Inc.         USD         363         8,647         0.04         Skechers USA, Inc. 'A'         USD         642         26,932           Revolve Group, Inc. 'A'         USD         381         48,138         0.25         Skyline Champion Corp.         USD         642         26,932										0.01 0.07
Repligen Corp.         USD         248         41,989         0.22         Simpson Manufacturing Co., Inc.         USD         205         18,175           Replimune Group, Inc.         USD         156         4,243         0.02         Sinclair Broadcast Group, Inc. 'A'         USD         208         3,226           Republic Bancorp, Inc. 'A'         USD         643         1,760         0.01         SITE Centers Corp., REIT         USD         886         12,103           Reside O Fechnologies, Inc.         USD         694         11,416         0.06         Site One Landscape Supply, Inc.         USD         217         25,458           Retail Opportunity Investments Corp         USD         610         9,168         0.05         Six Flags Entertailment Corp.         USD         352         8,184           Revance Therapeutics, Inc.         USD         395         7,292         0.04         SW Group         USD         128         10,392           Revolve Group, Inc. 'A'         USD         194         4,318         0.02         Skyline Champion Corp.         USD         254         13,084           Revolve Group, Inc. 'A'         USD         194         4,318         0.02         Skyline Champion Corp.         USD         254         13,0										0.08
Republic Bancorp, Inc. 'A'         USD         43         1,760         0.01         STITE Centers Corp., REIT         USD         886         12,103           Resideo Technologies, Inc.         USD         694         11,416         0.06         SiteOne Landscape Supply, Inc.         USD         217         25,458           REIT         USD         610         9,168         0.05         Six Flags Entertainment Corp.         USD         352         8,184           REVOLUTION Medicines, Inc.         USD         395         7,292         0.04         SyW Group         USD         128         10,392           REVOLUTION Medicines, Inc.         USD         363         8,647         0.04         Skechers USA, Inc. 'A'         USD         128         10,392           REVORUTION Medicines, Inc.         USD         194         4,318         0.025         SkyWine Champion Corp.         USD         124         13,094           Revorded Group, Inc. 'A'         USD         184         4,318         0.025         SkyWine Champion Corp.         USD         254         13,084           Revorded Group, Inc. 'A'         USD         881         48,138         0.025         SkyWest, Inc.         USD         USD         244         513,094 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.09</td></td<>										0.09
Resideo Technologies, Inc. Retail Opportunity Investments Corp., REIT USD 694 11,416 0.06 SitieOne Landscape Supply, Inc. SiTime Corp. USD 78 7,926 READ RETIT USD 610 9,168 0.05 Six Hags Entertainment Corp. USD 352 8,1844 Revance Therapeutics, Inc. USD 395 7,292 0.04 SJW Group USD 128 10,392 REVOLUTION Medicines, Inc. USD 642 26,932 REVOLUTION Medicines, Inc. USD 881 48,138 0.02 Skyline Champion Corp. USD 243 14,012 Reynolds Consumer Products, Inc. USD 881 48,138 0.25 SkyWest, Inc. USD 243 4,012 Reynolds Consumer Products, Inc. USD 92 24,581 0.13 Sleep Number Corp. USD 104 2,702 Rhythm Pharmaceuticals, Inc. USD 371 13,133 0.07 SM Energy Co. USD 588 20,480 Rigentral, Inc. 'A' USD 883 2,722 0.01 SmartRent, Inc. 'A' USD 588 24,718 RLI Corp. REIT USD 883 2,275 Sleep Number Corp. USD 588 20,480 Rojial Corp., REIT USD 883 2,275 Sleep Number Corp. USD 588 20,480 Rojial Corp., REIT USD 588 20,480 Rojial Corp., REIT USD 588 24,718 RLI Corp. RLI Lodging Trust, REIT USD 774 8,197 0.04 Simith & Wesson Brands, Inc. USD 3,923 18,085 Robinhood Markets, Inc. 'A' USD 554 3,878 0.02 Solid Power, Inc. USD 499 1,267 Rocket Lab USA, Inc. USD 594 1,267 Rocket Lab USA, Inc. USD 594 1,267 Rover Group, Inc. 'A' USD 506 81 3,991 Rover Group, Inc. 'A' USD 606 10,241								208		0.02
Retail Opportunity Investments Corp.,         USD         610         9,168         0.05         SiTime Corp.         USD         78         7,926           REIT         USD         610         9,168         0.05         Six Flags Entertainment Corp.         USD         352         8,184           Revance Therapeutics, Inc.         USD         395         7,292         0.04         SJW Group         USD         128         10,392           REVOLUTION Medicines, Inc.         USD         363         8,647         0.04         Skechers USA, Inc. 'A'         USD         642         26,932           Revolve Group, Inc. 'A'         USD         194         4,318         0.02         Skyline Champion Corp.         USD         254         13,084           Rexford Industrial Realty, Inc., REIT         USD         881         48,138         0.25         Skylwes, Inc.         USD         254         13,084           Reynolds Consumer Products, Inc.         USD         262         7,855         0.04         SL Green Realty Corp., REIT         USD         30         10,318           RH         USD         92         24,581         0.13         Sleep Number Corp.         USD         104         2,702           Rhythm Pharmaceuticals,										0.06
REIT Revance Therapeutics, Inc. REVOLUTION Medicines, Inc. USD 395 7,292 0.04 SJW Group USD 128 10,392 Revolve Group, Inc. 'A' Rover Group, In		USD	694	11,416	0.06					0.13
Revance Therapeutics, Inc.         USD         395         7,292         0.04         SIW Group         USD         128         10,392           REVOLUTION Medicines, Inc.         USD         363         8,647         0.04         Skechers USA, Inc. 'A'         USD         642         26,932           Revolve Group, Inc. 'A'         USD         194         4,318         0.02         Skyline Champion Corp.         USD         254         13,082           Rexford Industrial Realty, Inc., REIT         USD         881         48,138         0.25         Skyline Champion Corp.         USD         243         4,012           Reynolds Consumer Products, Inc.         USD         262         7,855         0.04         SL Green Realty Corp., REIT         USD         306         10,318           RH         USD         92         24,581         0.13         Sleep Number Corp.         USD         104         2,702           Rhythm Pharmaceuticals, Inc.         USD         371         13,133         0.07         SM Energy Co.         USD         1,197         19,870           Ribd Blockchain, Inc.         USD         803         2,722         0.01         Smartsent, Inc. 'A'         USD         588         20,480           Rith Capit		IISD	610	9 168	0.05					0.04
REVOLUTION Medicines, Inc.    Revolve Group, Inc. 'A'										0.04
Rexford Industrial Realty, Inc., REIT         USD         881         48,138         0.25         SkyWest, Inc.         USD         243         4,012           Reynolds Consumer Products, Inc.         USD         262         7,855         0.04         SL Green Realty Corp., REIT         USD         306         10,318           RH         USD         92         24,581         0.13         Sleep Number Corp.         USD         104         2,702           Rhythm Pharmaceuticals, Inc.         USD         214         6,232         0.03         SLM Corp.         USD         1,197         19,870           RingCentral, Inc. 'A'         USD         371         13,133         0.07         SM Energy Co.         USD         588         20,480           Riot Blockchain, Inc.         USD         803         2,722         0.01         SmartRent, Inc. 'A'         USD         588         1,429           Rithm Capital Corp., REIT         USD         22,275         18,587         0.10         Smartsheet, Inc. 'A'         USD         628         24,718           RLI Lodging Trust, REIT         USD         193         25,335         0.13         Smith & Wesson Brands, Inc.         USD         84         622           Robert Half Internatio	REVOLUTION Medicines, Inc.				0.04					0.14
Reynolds Consumer Products, Inc.         USD         262         7,855         0.04         SL Green Realty Corp., REIT         USD         306         10,318           RH         USD         92         24,581         0.13         Sleep Number Corp.         USD         104         2,702           Rhythm Pharmaceuticals, Inc.         USD         214         6,232         0.03         SLM Corp.         USD         1,197         19,870           RingCentral, Inc. 'A'         USD         371         13,133         0.07         SM Energy Co.         USD         588         20,480           Riot Blockchain, Inc.         USD         803         2,722         0.01         SmartRent, Inc. 'A'         USD         588         20,480           Rithm Capital Corp., REIT         USD         803         2,722         0.01         SmartRent, Inc. 'A'         USD         588         1,429           Rithm Capital Corp., REIT         USD         2,275         18,587         0.10         Smartsheet, Inc. 'A'         USD         588         1,429           RLJ Lodging Trust, REIT         USD         193         25,335         0.13         Smith & Wesson Brands, Inc.         USD         84         622           Robert Half International, Inc						Skyline Champion Corp.			13,084	0.07
RH USD 92 24,581 0.13 Sleep Number Corp. USD 104 2,702 Rhythm Pharmaceuticals, Inc. USD 214 6,232 0.03 SLM Corp. USD 1,197 19,870 SM Energy Co. USD 588 20,480 Riot Blockchain, Inc. (A' USD 588 24,718 RLI Corp. REIT USD 2,275 18,587 0.10 Smartsheet, Inc. (A' USD 588 24,718 RLI Corp. RUSD 193 25,335 0.13 Smith & Wesson Brands, Inc. USD 220 1,910 RL L dodging Trust, REIT USD 774 8,197 0.04 Snap One Holdings Corp. USD 8,44 622 Robert Half International, Inc. (A' USD 5,2443 19,886 0.10 Solar Winds Corp. USD 2,24 2,095 Rocket Cos., Inc. (A' USD 5,43 3,878 0.02 Solid Power, Inc. (A' USD 7,12 1,787 Rocket Lab USA, Inc. USD 1,046 3,943 0.02 SomaLogic, Inc. USD 6,78 841 Roivant Sciences Ltd. USD 5,20 4,155 0.02 Sonic Automotive, Inc. (A' USD 8,1 3,991 Rover Group, Inc. (A' USD 465 28,230 Royal Gold, Inc. USD 316 35,620 0.18 Sonos, Inc. (USD 5,000 USD 6,000 Royal Gold, Inc. (USD 3,600 USD 6,000						•				0.02
Rhythm Pharmaceuticals, Inc.         USD         214         6,232         0.03         SLM Corp.         USD         1,197         19,870           RingCentral, Inc. 'A'         USD         371         13,133         0.07         SM Energy Co.         USD         588         20,480           Riot Blockchain, Inc.         USD         803         2,722         0.01         SmartRent, Inc. 'A'         USD         588         1,429           Rithm Capital Corp., REIT         USD         2,275         18,587         0.10         Smartsheet, Inc. 'A'         USD         628         24,718           RLI Corp.         USD         193         25,335         0.13         Smith & Wesson Brands, Inc.         USD         220         1,910           RLJ Lodging Trust, REIT         USD         774         8,197         0.04         Snap One Holdings Corp.         USD         84         622           Robert Half International, Inc.         USD         522         38,539         0.20         Sofi Technologies, Inc.         USD         3,923         18,085           Robinhood Markets, Inc. 'A'         USD         2,443         19,886         0.10         SolarWinds Corp.         USD         294         2,097           Rocket Cos., Inc.										0.05
RingCentral, Inc. 'A'         USD         371         13,133         0.07         SM Energy Co.         USD         588         20,480           Riot Blockchain, Inc.         USD         803         2,722         0.01         SmartRent, Inc. 'A'         USD         588         1,429           Rithm Capital Corp., REIT         USD         2,275         18,587         0.10         Smartsheet, Inc. 'A'         USD         628         24,718           RLI Corp.         USD         193         25,335         0.13         Smith & Wesson Brands, Inc.         USD         220         1,910           RLJ Lodging Trust, REIT         USD         774         8,197         0.04         Snap One Holdlings Corp.         USD         84         622           Robert Half International, Inc.         USD         522         38,539         0.20         Sofi Technologies, Inc.         USD         3,923         18,085           Robinhood Markets, Inc. 'A'         USD         2,443         19,886         0.10         SolarWinds Corp.         USD         3,923         18,085           Rocket Cos., Inc. 'A'         USD         554         3,878         0.02         Solid Power, Inc.         USD         499         1,267           Rocket Lab USA,										0.01
Riot Blockchain, Inc.         USD         803         2,722         0.01         SmartRent, Inc. 'A'         USD         588         1,429           Rithm Capital Corp., REIT         USD         2,275         18,587         0.10         Smartsheet, Inc. 'A'         USD         628         24,718           RLI Corp.         USD         193         25,335         0.13         Smith & Wesson Brands, Inc.         USD         220         1,910           RLJ Lodging Trust, REIT         USD         774         8,197         0.04         Snap One Holdings Corp.         USD         84         622           Robert Half International, Inc.         USD         522         38,539         0.20         SoFi Technologies, Inc.         USD         3,923         18,085           Robinhood Markets, Inc. 'A'         USD         2,443         19,886         0.10         SolarWinds Corp.         USD         3,923         18,085           Rocket Cos., Inc. 'A'         USD         554         3,878         0.02         Solid Power, Inc.         USD         499         1,267           Rocket Lab USA, Inc.         USD         1,046         3,943         0.02         SomaLogic, Inc.         USD         712         1,787           Rocket Pharmaceu										0.10 0.11
Rithm Capital Corp., REIT         USD         2,275         18,587         0.10         Smartsheet, Inc. 'A'         USD         628         24,718           RLI Corp.         USD         193         25,335         0.13         Smith & Wesson Brands, Inc.         USD         220         1,910           RLJ Lodging Trust, REIT         USD         774         8,197         0.04         Snap One Holdings Corp.         USD         84         622           Robert Half International, Inc.         USD         522         38,539         0.20         SoFi Technologies, Inc.         USD         3,923         18,085           Robinhood Markets, Inc. 'A'         USD         2,443         19,886         0.10         SolarWinds Corp.         USD         224         2,097           Rocket Cos., Inc. 'A'         USD         554         3,878         0.02         Solid Power, Inc.         USD         499         1,267           Rocket Lab USA, Inc.         USD         1,046         3,943         0.02         SomaLogic, Inc.         USD         712         1,787           Rocket Pharmaceuticals, Inc.         USD         520         4,155         0.02         Sonic Automotive, Inc. 'A'         USD         81         3,991           Rover	-									0.01
RLJ Lodging Trust, REIT  USD 774 8,197 0.04 Snap One Holdings Corp.  USD 84 622 Robert Half International, Inc.  USD 522 38,539 0.20 SoFi Technologies, Inc.  USD 3,923 18,085 Robinhood Markets, Inc. 'A'  USD 2,443 19,886 0.10 SolarWinds Corp.  USD 224 2,097 Rocket Cos., Inc. 'A'  USD 554 3,878 0.02 Solid Power, Inc.  USD 499 1,267 Rocket Lab USA, Inc.  USD 499 1,267 Rocket Pharmaceuticals, Inc.  USD 280 5,480 0.03 Sonder Holdings, Inc.  USD 678 841 Roivant Sciences Ltd.  USD 462 1,696 0.01 Sonoco Products Co.  USD 465 28,230 Royal Gold, Inc.  USD 316 35,620 0.18 Sonos, Inc.  USD 606 10,241	Rithm Capital Corp., REIT			18,587	0.10					0.13
Robert Half International, Inc.         USD         522         38,539         0.20         SoFi Technologies, Inc.         USD         3,923         18,085           Robinhood Markets, Inc. 'A'         USD         2,443         19,886         0.10         SolarWinds Corp.         USD         224         2,097           Rocket Cos., Inc. 'A'         USD         554         3,878         0.02         Solid Power, Inc.         USD         499         1,267           Rocket Lab USA, Inc.         USD         1,046         3,943         0.02         SomaLogic, Inc.         USD         712         1,787           Rocket Pharmaceuticals, Inc.         USD         280         5,480         0.03         Sonder Holdings, Inc.         USD         678         841           Roivant Sciences Ltd.         USD         520         4,155         0.02         Sonic Automotive, Inc. 'A'         USD         81         3,991           Rover Group, Inc. 'A'         USD         462         1,696         0.01         Sonoco Products Co.         USD         465         28,230           Royal Gold, Inc.         USD         316         35,620         0.18         Sonos, Inc.         USD         606         10,241							USD	220		0.01
Robinhood Markets, Inc. 'A'         USD         2,443         19,886         0.10         SolarWinds Corp.         USD         224         2,097           Rocket Cos., Inc. 'A'         USD         554         3,878         0.02         Solid Power, Inc.         USD         499         1,267           Rocket Lab USA, Inc.         USD         1,046         3,943         0.02         SomaLogic, Inc.         USD         712         1,787           Rocket Pharmaceuticals, Inc.         USD         280         5,480         0.03         Sonder Holdings, Inc.         USD         678         841           Roivant Sciences Ltd.         USD         520         4,155         0.02         Sonic Automotive, Inc. 'A'         USD         81         3,991           Rover Group, Inc. 'A'         USD         462         1,696         0.01         Sonoco Products Co.         USD         465         28,230           Royal Gold, Inc.         USD         316         35,620         0.18         Sonos, Inc.         USD         606         10,241										0.00
Rocket Cos., Inc. 'A'         USD         554         3,878         0.02         Sollid Power, Inc.         USD         499         1,267           Rocket Lab USA, Inc.         USD         1,046         3,943         0.02         SomaLogic, Inc.         USD         712         1,787           Rocket Pharmaceuticals, Inc.         USD         280         5,480         0.03         Sonder Holdings, Inc.         USD         678         841           Roivant Sciences Ltd.         USD         520         4,155         0.02         Sonic Automotive, Inc. 'A'         USD         81         3,991           Rover Group, Inc. 'A'         USD         462         1,696         0.01         Sonoco Products Co.         USD         465         28,230           Royal Gold, Inc.         USD         316         35,620         0.18         Sonos, Inc.         USD         606         10,241										0.09
Rocket Lab USA, Inc.         USD         1,046         3,943         0.02         SomaLogic, Inc.         USD         712         1,787           Rocket Pharmaceuticals, Inc.         USD         280         5,480         0.03         Sonder Holdings, Inc.         USD         678         841           Roivant Sciences Ltd.         USD         520         4,155         0.02         Sonic Automotive, Inc. 'A'         USD         81         3,991           Rover Group, Inc. 'A'         USD         462         1,696         0.01         Sonoco Products Co.         USD         465         28,230           Royal Gold, Inc.         USD         316         35,620         0.18         Sonos, Inc.         USD         606         10,241										0.01
Rocket Pharmaceuticals, Inc.         USD         280         5,480         0.03         Sonder Holdings, Inc.         USD         678         841           Roivant Sciences Ltd.         USD         520         4,155         0.02         Sonic Automotive, Inc. 'A'         USD         81         3,991           Rover Group, Inc. 'A'         USD         462         1,696         0.01         Sonoco Products Co.         USD         465         28,230           Royal Gold, Inc.         USD         316         35,620         0.18         Sonos, Inc.         USD         606         10,241										0.01
Roivant Sciences Ltd.         USD         520         4,155         0.02         Sonic Automotive, Inc. 'A'         USD         81         3,991           Rover Group, Inc. 'A'         USD         462         1,696         0.01         Sonoco Products Co.         USD         465         28,230           Royal Gold, Inc.         USD         316         35,620         0.18         Sonos, Inc.         USD         606         10,241										0.00
Rover Group, Inc. 'A'         USD         462         1,696         0.01         Sonoco Products Co.         USD         465         28,230           Royal Gold, Inc.         USD         316         35,620         0.18         Sonos, Inc.         USD         606         10,241	Roivant Sciences Ltd.			4,155						0.02
		USD	462			Sonoco Products Co.				0.15
										0.05
RPC, Inc. USD 397 3,529 0.02 Sotera Health Co. USD 472 3,932										0.02
RPM International, Inc.         USD         618         60,224         0.31         Southside Bancshares, Inc.         USD         144         5,183           RPT Realty, REIT         USD         408         4,096         0.02         SouthState Corp.         USD         362         27,642										0.03
RPT Realty, REIT         USD         408         4,096         0.02         SouthState Corp.         USD         362         27,642           Rumble, Inc.         USD         386         2,297         0.01         Southwest Gas Holdings, Inc.         USD         300         18,564										0.14
Rush Enterprises, Inc. 'A' USD 204 10,665 0.06 Southwestern Energy Co. USD 5,301 31,011										0.16
Rush Enterprises, Inc. 'B' USD 35 1,969 0.01 Sovois Brands, Inc. USD 185 2,658										0.01
Ryan Specialty Holdings, Inc. 'A' USD 400 16,604 0.09 SP Plus Corp. USD 96 3,333	Ryan Specialty Holdings, Inc. 'A'	USD	400	16,604	0.09					0.02

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
SpartanNash Co.	USD	171	5,171	0.03	Toll Brothers, Inc.	USD	506	25,260	0.13
Spectrum Brands Holdings, Inc. Spire, Inc.	USD USD	195 252	11,879 17,353	0.06 0.09	Tompkins Financial Corp. Tootsie Roll Industries, Inc.	USD USD	61 85	4,732 3,618	0.02
Spirit AeroSystems Holdings, Inc. 'A'	USD	505	14,948	0.08	TopBuild Corp.	USD	156	24,412	0.13
Spirit Airlines, Inc.	USD	522	10,169	0.05	Topgolf Callaway Brands Corp.	USD	666	13,153	0.07
Spirit Realty Capital, Inc., REIT SpringWorks Therapeutics, Inc.	USD USD	670 213	26,753 5,540	0.14 0.03	Toro Co. (The) Towne Bank	USD USD	502 317	56,826 9,776	0.29 0.05
Sprinklr, Inc. 'A'	USD	280	2,288	0.01	TPG RE Finance Trust, Inc., REIT	USD	294	1,996	0.01
Sprout Social, Inc. 'A' Sprouts Farmers Market, Inc.	USD	224	12,647 16,573	0.07 0.09	TPG, Inc. 'A' Tradeweb Markets, Inc. 'A'	USD	244	6,791 34,673	0.04 0.18
SPS Commerce, Inc.	USD USD	512 173	22,218	0.09	TransMedics Group, Inc.	USD USD	534 154	9,505	0.18
SPX Technologies, Inc.	USD	216	14,180	0.07	Transocean Ltd.	USD	3,191	14,551	0.08
Squarespace, Inc. 'A' St Joe Co. (The)	USD USD	200 163	4,434 6,300	0.02 0.03	Travel + Leisure Co. Travere Therapeutics, Inc.	USD USD	399 265	14,524 5,573	0.07 0.03
STAAR Surgical Co.	USD	232	11,261	0.06	Treace Medical Concepts, Inc.	USD	151	3,471	0.02
STAG Industrial, Inc., REIT	USD	860	27,787	0.14	TreeHouse Foods, Inc.	USD	242	11,950	0.06
Stagwell, Inc. Standard Motor Products, Inc.	USD USD	491 90	3,049 3,132	0.02	Trex Co., Inc. Tri Pointe Homes, Inc.	USD USD	528 483	22,350 8,979	0.12 0.05
Standex International Corp.	USD	58	5,940	0.03	TriCo Bancshares	USD	161	8,209	0.04
Starwood Property Trust, Inc., REIT Steelcase, Inc. 'A'	USD	1,483	27,183 3,104	0.14 0.02	TriMas Corp. TriNet Group, Inc.	USD	210	5,825 11,594	0.03 0.06
Stellar Bancorp, Inc.	USD USD	439 214	6,304	0.02	Trinity Industries, Inc.	USD USD	171 391	11,594	0.06
Stem, Inc.	USD	698	6,240	0.03	Trinseo plc	USD	162	3,679	0.02
Stepan Co. StepStone Group, Inc. 'A'	USD USD	101 230	10,752 5,791	0.06 0.03	TripAdvisor, Inc. Triumph Financial, Inc.	USD USD	495 109	8,900 5,327	0.05 0.03
Stericycle, Inc.	USD	440	21,952	0.03	Triumph Group, Inc.	USD	310	3,261	0.03
Sterling Check Corp.	USD	111	1,717	0.01	Tronox Holdings plc	USD	544	7,458	0.04
Steven Madden Ltd. Stewart Information Services Corp.	USD USD	354 130	11,314 5,555	0.06 0.03	TrueBlue, Inc. Trupanion, Inc.	USD USD	157 167	3,074 7,938	0.02
Stifel Financial Corp.	USD	506	29,535	0.15	Trustmark Corp.	USD	291	10,159	0.05
Stock Yards Bancorp, Inc.	USD	140	9,097	0.05	TTEC Holdings, Inc.	USD	89	3,928	0.02
Stoke Therapeutics, Inc. StoneX Group, Inc.	USD USD	104 82	960 7,815	0.00 0.04	TTM Technologies, Inc. TuSimple Holdings, Inc. 'A'	USD USD	486 649	7,329 1,064	0.04
STORE Capital Corp., REIT	USD	1,275	40,877	0.21	Twist Bioscience Corp.	USD	269	6,405	0.03
Strategic Education, Inc. Stride, Inc.	USD USD	107 193	8,380 6,037	0.04 0.03	Two Harbors Investment Corp., REIT Udemy, Inc.	USD USD	409 309	6,450 3,260	0.03
Sturm Ruger & Co., Inc.	USD	193 85	4,303	0.03	UFP Industries, Inc.	USD	296	23,458	0.02
Summit Hotel Properties, Inc., REIT	USD	512	3,697	0.02	U-Haul Holding Co.	USD	47	2,829	0.01
Summit Materials, Inc. 'A' Sumo Logic, Inc.	USD USD	573 519	16,267 4,204	0.08 0.02	UiPath, Inc. 'A' Ultra Clean Holdings, Inc.	USD USD	1,684 217	21,404 7,194	0.11 0.04
Sun Country Airlines Holdings, Inc.	USD	157	2,490	0.01	Ultragenyx Pharmaceutical, Inc.	USD	336	15,567	0.08
Sunnova Energy International, Inc.	USD	475	8,555	0.04	UMB Financial Corp.	USD	208	17,372	0.09
SunPower Corp. 'A' Sunrun, Inc.	USD USD	406 1,024	7,320 24,596	0.04 0.13	Umpqua Holdings Corp. Under Armour, Inc. 'A'	USD USD	1,033 898	18,439 9,124	0.10 0.05
Sunstone Hotel Investors, Inc., REIT	USD	1,011	9,766	0.05	Under Armour, Inc. 'C'	USD	951	8,483	0.04
Super Micro Computer, Inc.	USD	219	17,980	0.09	UniFirst Corp.	USD	73	14,088	0.07 0.01
Supernus Pharmaceuticals, Inc. Surgery Partners, Inc.	USD USD	259 299	9,239 8,330	0.05 0.04	Unisys Corp. United Bankshares, Inc.	USD USD	325 646	1,661 26,157	0.01
Sweetgreen, Inc. 'A'	USD	355	3,042	0.02	United Community Banks, Inc.	USD	510	17,238	0.09
Sylvamo Corp. Synaptics, Inc.	USD USD	158 190	7,677 18,080	0.04 0.09	United Natural Foods, Inc. United States Cellular Corp.	USD	278	10,761 1,355	0.06 0.01
Syndax Pharmaceuticals, Inc.	USD	306	7,788	0.09	United States Steel Corp.	USD USD	65 1,126	28,206	0.01
Syneos Health, Inc. 'A'	USD	493	18,083	0.09	United Therapeutics Corp.	USD	218	60,624	0.31
Synovus Financial Corp. Talos Energy, Inc.	USD USD	698 311	26,210 5,872	0.14 0.03	Uniti Group, Inc., REIT Univar Solutions, Inc.	USD USD	1,130 793	6,249 25,217	0.03 0.13
Tandem Diabetes Care, Inc.	USD	308	13,845	0.07	Universal Corp.	USD	117	6,179	0.03
Tanger Factory Outlet Centers, Inc., REIT	USD	501	8,988	0.05	Universal Health Bealty Income Trust	USD	209	22,580	0.12
Tango Therapeutics, Inc. Target Hospitality Corp.	USD USD	210 117	1,523 1,771	0.01 0.01	Universal Health Realty Income Trust, REIT	USD	60	2,864	0.01
TaskuS, Inc. 'A'	USD	124	2,096	0.01	Universal Logistics Holdings, Inc.	USD	32	1,070	0.01
Taylor Morrison Home Corp. 'A' TD SYNNEX Corp.	USD	520	15,782 18,942	0.08 0.10	Unum Group Upstart Holdings, Inc.	USD USD	899 334	36,886 4,415	0.19 0.02
TechTarget, Inc.	USD USD	200 129	5,684	0.03	Upwork, Inc.	USD	566	5,909	0.03
TEGNA, Inc.	USD	1,072	22,716	0.12	Urban Edge Properties, REIT	USD	560	7,890	0.04
Teladoc Health, Inc. Telephone & Data Systems, Inc.	USD USD	778 476	18,400 4,993	0.10 0.03	Urban Outfitters, Inc. Urstadt Biddle Properties, Inc., REIT 'A'	USD USD	287 144	6,845 2,729	0.04
Tellurian, Inc.	USD	2,436	4,092	0.02	US Foods Holding Corp.	USD	984	33,476	0.17
Telos Corp.	USD	257	1,308	0.01	US Physical Therapy, Inc. US Silica Holdings, Inc.	USD USD	62 359	5,024 4,488	0.03
Tempur Sealy International, Inc. Tenable Holdings, Inc.	USD USD	825 541	28,322 20,639	0.15 0.11	USANA Health Sciences, Inc.	USD	52	2,766	0.02
Tenet Healthcare Corp.	USD	518	25,273	0.13	UserTesting, Inc.	USD	209	1,570	0.01
Tennant Co. Teradata Corp.	USD	89	5,480 16,460	0.03	Utz Brands, Inc. V2X, Inc.	USD USD	316 52	5,012 2,147	0.03
Terex Corp.	USD USD	489 323	13,799	0.08	Vacasa, Inc. 'A'	USD	413	520	0.00
Terreno Realty Corp., REIT	USD	321	18,255	0.09	Vallay National Bancorn	USD	287	19,407	0.10
Tetra Tech, Inc. Texas Capital Bancshares, Inc.	USD USD	254 239	36,878 14,414	0.19 0.07	Valley National Bancorp Valmont Industries, Inc.	USD USD	2,000 103	22,620 34,059	0.12 0.18
Texas Capital Balicshares, Inc. Texas Roadhouse, Inc. 'A'	USD	320	29,104	0.07	Valvoline, Inc.	USD	851	27,785	0.14
TFS Financial Corp.	USD	229	3,300	0.02	Varex Imaging Corp.	USD	190	3,857	0.02
TG Therapeutics, Inc. Third Harmonic Bio, Inc.	USD USD	663 55	7,843 237	0.04	Varonis Systems, Inc. 'B' Vaxcyte, Inc.	USD USD	523 304	12,521 14,577	0.06
Thor Industries, Inc.	USD	258	19,476	0.00	Vector Group Ltd.	USD	632	7,496	0.04
Thoughtworks Holding, Inc.	USD	311	3,169	0.02	Veeco Instruments, Inc.	USD	244	4,534	0.02
Thryv Holdings, Inc. Tidewater, Inc.	USD USD	146 243	2,774 8,955	0.01 0.05	Velo3D, Inc. Veracyte, Inc.	USD USD	272 344	487 8,163	0.00 0.04
Timken Co. (The)	USD	318	22,473	0.03	Vericel Corp.	USD	225	5,927	0.03
Toast, Inc. 'A'	USD	1,486	26,793	0.14	Verint Systems, Inc.	USD	313	11,356	0.06

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Veris Residential, Inc., REIT Veritex Holdings, Inc.	USD USD	380 260	6,053 7,301	0.03
Veritiv Corp.	USD	260 66	7,301 8,033	0.04
Verra Mobility Corp. 'A'	USD	679	9,391	0.05
Vertiv Holdings Co. 'A'	USD	1,450	19,807	0.10
Verve Therapeutics, Inc.	USD	202	3,909	0.02
Viasat, Inc.	USD	364	11,521	0.06
Viavi Solutions, Inc.	USD	1,098	11,540	0.06
Victoria's Socret & Co	USD	107	5,751	0.03
Victoria's Secret & Co. Victory Capital Holdings, Inc. 'A'	USD USD	391 131	13,990 3,515	0.07 0.02
Vimeo, Inc.	USD	748	2,566	0.02
Vir Biotechnology, Inc.	USD	365	9,238	0.05
Virgin Galactic Holdings, Inc.	USD	1,148	3,995	0.02
Viridian Therapeutics, Inc.	USD	192	5,608	0.03
Virtu Financial, Inc. 'A'	USD	456	9,307	0.05
Virtus Investment Partners, Inc.	USD	32	6,126	0.03
Vishay Intertechnology, Inc.	USD	622	13,417	0.07
Vista Outdoor, Inc.	USD	270	6,580	0.03
Visteon Corp.	USD	135	17,662	0.09
Vivid Seats, Inc. 'A'	USD	103	752	0.00
Vivint Smart Home, Inc.	USD	213	2,535	0.01
Vizio Holding Corp. 'A'	USD	267	1,978	0.01
Vontier Corp.	USD	752	14,536	0.08
Vornado Realty Trust, REIT W&T Offshore, Inc.	USD	773	16,086	0.08
Wabash National Corp.	USD USD	454 232	2,533 5,243	0.01
Walker & Dunlop, Inc.	USD	147	11,537	0.05
Warby Parker, Inc. 'A'	USD	297	4,007	0.02
Warner Music Group Corp. 'A'	USD	556	19,471	0.10
Warrior Met Coal, Inc.	USD	246	8,521	0.04
Washington Federal, Inc.	USD	311	10,434	0.05
Washington Trust Bancorp, Inc.	USD	82	3,869	0.02
Watts Water Technologies, Inc. 'A'	USD	131	19,156	0.10
Wayfair, Inc. 'A'	USD	372	12,235	0.06
WD-40 Co.	USD	66	10,640	0.05
Weatherford International plc	USD	309	15,734	0.08
Webster Financial Corp.	USD	843	39,908	0.21
Weis Markets, Inc. Wendy's Co. (The)	USD	79	6,501 18,964	0.03
Werner Enterprises, Inc.	USD USD	838 288	11,595	0.10
WesBanco, Inc.	USD	288 284	10,502	0.05
WESCO International, Inc.	USD	214	26,793	0.03
Westamerica BanCorp	USD	129	7,612	0.04
Western Alliance Bancorp	USD	524	31,209	0.16
Western Union Co. (The)	USD	1,850	25,475	0.13
WeWork, Inc. 'A'	USD	1,115	1,594	0.01
WEX, Inc.	USD	211	34,530	0.18
White Mountains Insurance Group Ltd.	USD	13	18,386	0.09
Williams Consens Inc.	USD	249	2,268	0.01
Williams-Sonoma, Inc.	USD	320	36,774	0.19
WillScot Mobile Mini Holdings Corp.	USD	1,004	45,351	0.23
Wingstop, Inc. Winnebago Industries, Inc.	USD USD	144 151	19,817 7,958	0.10 0.04
Wintrust Financial Corp.	USD	290	7,958 24,511	0.04
WisdomTree, Inc.	USD	534	2,910	0.13
Wolfspeed, Inc.	USD	596	41,148	0.02
Wolverine World Wide, Inc.	USD	374	4,088	0.02
Woodward, Inc.	USD	289	27,920	0.14
Workiva, Inc. 'A'	USD	220	18,473	0.10
World Acceptance Corp.	USD	17	1,121	0.01
World Fuel Services Corp.	USD	295	8,062	0.04
World Wrestling Entertainment, Inc. 'A'	USD	206	14,115	0.07
Worthington Industries, Inc.	USD	145	7,208	0.04
WSFS Financial Corp.	USD	302	13,693	0.07
Wyndham Hotels & Resorts, Inc. Xencor, Inc.	USD	425 287	30,307 7,473	0.16 0.04
Xenia Hotels & Resorts, Inc., REIT	USD USD	287 545	7,473 7,183	0.04
Xerox Holdings Corp.	USD	545 534	7,165 7,796	0.04
Xometry, Inc. 'A'	USD	141	4,544	0.04
XPEL, Inc.	USD	94	5,646	0.02
XPO, Inc.	USD	551	18,343	0.09
Yelp, Inc. 'A'	USD	340	9,296	0.05
YETI Holdings, Inc.	USD	411	16,978	0.09
Zentalis Pharmaceuticals, Inc.	USD	209	4,209	0.02
Zeta Global Holdings Corp. 'A'	USD	603	4,927	0.03
Ziff Davis, Inc.	USD	226	17,877	0.09
ZipRecruiter, Inc. 'A'	USD	271	4,450	0.02
Zuora, Inc. 'A'	USD	637	4,051	0.02
Zurn Elkay Water Solutions Corp.	USD	700	14,805	0.08
United States total			18,779,354	96.98
Total investments in Equities				
Total investments in Equities		:	19,278,557	99.55

Schedule of Investments (continued)

As at 31 December 2022

Total Assets

Financial Futures Contracts

Security Description	No. of Contracts	Currency	Underlying Exposure USD	Counterparty	Fair Value USD	% of Net Assets
United States Micro E-mini Russell 2000 Index, 17/03/2023	10	USD	89.308	Citibank NA	(763)	-
United States total					(763)	
Total unrealised loss on Financial Futures Contracts					(763)	
					Fair Value USD	% of Net Assets
rotal financial assets at fair value through profit or loss otal financial liabilities at fair value through profit or loss cash and margin cash other assets and liabilities let asset value attributable to holders of redeemable participating shares				19,278,557 (763) 63,776 23,442 19,365,012	99.55 - 0.33 0.12 100.00	
Analysis of total assets (Unaudited)						% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments other than those admitted to an official stock exchange listing or dealt in on another regulated market Other assets						99.53 - 0.47

100.00

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Bonds				
Government Debt Securities (31 Decem	nber 2021: 9	3.61%)		
United States (31 December 2021: 93.619			_,	_
US Treasury Bill 0.00% 03/01/2023		54,590,000	54,590,000 46,050,699	2.22 1.87
US Treasury Bill 0.00% 05/01/2023 US Treasury Bill 0.00% 10/01/2023	USD USD	46,060,000 8,210,000	8,204,225	0.33
US Treasury Bill 0.00% 12/01/2023	USD	74,470,000	74,405,350	3.02
US Treasury Bill 0.00% 17/01/2023	USD	76,940,000	76,829,927	3.12
US Treasury Bill 0.00% 19/01/2023 US Treasury Bill 0.00% 24/01/2023	USD USD	70,830,000 49,330,000	70,716,042 49,219,479	2.87 2.00
US Treasury Bill 0.00% 26/01/2023	USD	50,205,000	50,080,531	2.04
US Treasury Bill 0.00% 31/01/2023	USD	16,540,000	16,489,314	0.67
US Treasury Bill 0.00% 02/02/2023	USD	79,410,000	79,158,050	3.22
US Treasury Bill 0.00% 07/02/2023 US Treasury Bill 0.00% 09/02/2023	USD USD	20,420,000 79,190,000	20,342,379 78,874,072	0.83 3.21
US Treasury Bill 0.00% 14/02/2023	USD	17,410,000	17,328,158	0.70
US Treasury Bill 0.00% 16/02/2023	USD	460,000	457,712	0.02
US Treasury Bill 0.00% 21/02/2023	USD	11,150,000	11,086,919	0.45
US Treasury Bill 0.00% 23/02/2023	USD	69,242,000	68,825,289	2.80
US Treasury Bill 0.00% 28/02/2023	USD	42,190,000	41,908,657	1.70
US Treasury Bill 0.00% 02/03/2023 US Treasury Bill 0.00% 07/03/2023	USD USD	73,560,000 32,780,000	73,057,637 32,538,212	2.97 1.32
US Treasury Bill 0.00% 09/03/2023	USD	23,250,000	23,071,872	0.94
US Treasury Bill 0.00% 14/03/2023	USD	240,000	238,050	0.01
US Treasury Bill 0.00% 16/03/2023	USD	7,670,000	7,606,393	0.31
US Treasury Bill 0.00% 23/03/2023	USD	67,756,000	67,125,364	2.73
US Treasury Bill 0.00% 28/03/2023 US Treasury Bill 0.00% 30/03/2023	USD USD	32,150,000 42,660,000	31,834,367 42,222,997	1.29 1.72
US Treasury Bill 0.00% 04/04/2023	USD	3,280,000	3,244,604	0.13
US Treasury Bill 0.00% 06/04/2023	USD	15,900,000	15,727,485	0.64
US Treasury Bill 0.00% 13/04/2023	USD	42,870,000	42,385,926	1.72
US Treasury Bill 0.00% 20/04/2023 US Treasury Bill 0.00% 27/04/2023	USD	62,793,000	61,974,327 22,508,305	2.52 0.92
US Treasury Bill 0.00% 27/04/2023 US Treasury Bill 0.00% 04/05/2023	USD USD	22,830,000 27,860,000	22,508,305 27,439,476	1.12
US Treasury Bill 0.00% 18/05/2023	USD	44,324,000	43,573,643	1.77
US Treasury Bill 0.00% 25/05/2023		44,560,000	43,767,039	1.78
US Treasury Bill 0.00% 08/06/2023		48,040,000	47,101,138	1.91
US Treasury Bill 0.00% 15/06/2023	USD	31,350,000	30,718,022	1.25
US Treasury Bill 0.00% 13/07/2023 US Treasury Bill 0.00% 10/08/2023	USD USD	45,580,000 30,050,000	44,496,735 29,239,477	1.81 1.19
US Treasury Bill 0.00% 07/09/2023	USD	46,270,000	44,880,303	1.82
US Treasury Bill 0.00% 05/10/2023	USD	46,760,000	45,180,129	1.84
US Treasury Bill 0.00% 02/11/2023		44,460,000	42,772,710	1.74
US Treasury Bill 0.00% 30/11/2023 US Treasury Note 0.13% 31/12/2022	USD USD	33,740,000	32,350,212 25,846,000	1.31 1.05
US Treasury Note 0.13% 31/12/2022	USD	25,846,000 36,500,000	36,500,000	1.48
US Treasury Note 0.13% 31/01/2023		59,090,000	58,911,922	2.39
US Treasury Note 2.38% 31/01/2023	USD	32,000,000	31,957,227	1.30
US Treasury Note 1.38% 15/02/2023	USD	40,552,000	40,413,215	1.64
US Treasury Note 0.13% 28/02/2023 US Treasury Note 2.63% 28/02/2023	USD	102,000	101,320 32,396,134	0.00 1.32
US Treasury Note 0.50% 15/03/2023		32,490,000 43,529,000	43,197,397	1.76
US Treasury Note 0.13% 31/03/2023		14,556,000	14,406,929	0.59
US Treasury Note 1.50% 31/03/2023	USD	1,851,000	1,837,993	0.07
US Treasury Note 2.50% 31/03/2023	USD	38,570,000	38,389,114	1.56
US Treasury Note 0.25% 15/04/2023		28,460,000	28,128,708	1.14
US Treasury Note 0.13% 30/04/2023 US Treasury Note 1.63% 30/04/2023	USD	19,161,000	18,897,536 4,172,842	0.77 0.17
US Treasury Note 2.75% 30/04/2023	USD USD	4,212,000 11,910,000	4,172,842 11,843,471	0.17
US Treasury Note 0.13% 15/05/2023		46,400,000	45,635,125	1.85
US Treasury Note 0.13% 31/05/2023		36,690,000	36,035,026	1.46
US Treasury Note 1.63% 31/05/2023	USD	2,750,000	2,717,666	0.11
US Treasury Note 2.75% 31/05/2023	USD	3,350,000	3,325,137	0.14
US Treasury Note 0.25% 15/06/2023	USD	26,770,000	26,251,331	1.07
US Treasury Note 0.13% 30/06/2023 US Treasury Note 1.38% 30/06/2023	USD USD	43,610,000 7,470,000	42,642,403 7,352,406	1.73 0.30
US Treasury Note 2.63% 30/06/2023	USD	7,470,000	6,933,008	0.30
US Treasury Note 0.13% 15/07/2023	USD	3,470,000	3,385,690	0.14
US Treasury Note 0.13% 31/07/2023	USD	25,700,000	25,023,367	1.02
US Treasury Note 1.25% 31/07/2023	USD	6,310,000	6,185,772	0.25
US Treasury Note 2.75% 31/07/2023 US Treasury Note 0.13% 15/08/2023	USD USD	21,610,000 32,710,000	21,375,329 31,804,086	0.87 1.29
US Treasury Note 0.13% 13/08/2023	USD	22,970,000	22,276,414	0.91
US Treasury Note 1.38% 31/08/2023	USD	8,620,000	8,427,060	0.34
US Treasury Note 2.75% 31/08/2023	USD	8,220,000	8,115,645	0.33
US Treasury Note 0.13% 15/09/2023		47,020,000	45,545,115 16,094,767	1.85
US Treasury Note 0.38% 31/10/2023 US Treasury Note 2.88% 31/10/2023		16,690,000 12,940,000	16,094,767 12,746,405	0.65 0.52
US Treasury Note 0.25% 15/11/2023	USD	55,190,000	53,068,634	2.16
US Treasury Note 0.13% 15/12/2023	USD	39,770,000	38,096,864	1.55
United States total  Total investments in Government Debt	Securities		2,469,658,284	100.37
	. Securities		2,469,658,284	100.37
Total Bonds			2,469,658,284	100.37

# JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-1 yr UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class MXN Hedg	ed (acc)*						
MXN	174,813,942	USD	8,907,253	02/02/2023	RBC	10,640	-
MXN	51,255,100	USD	2,581,585	03/01/2023	State Street	48,601	-
USD	367	MXN	7,072	03/01/2023		4	-
USD	1,255,945	MXN	24,393,560		BNP Paribas	4,175	-
USD	692,127	MXN	13,482,295	,	BNP Paribas	275	-
USD	99	MXN	1,921	03/01/2023		1	-
USD	1,675,875,206	MXN	32,434,905,502	03/01/2023		11,458,446	0.47
USD	765	MXN	14,892	03/01/2023	Morgan Stanley		
Total unrealised gain on Forward Currency Contracts (31 December 2021: 6.75%)							0.47
Class MXN Hedg	ed (acc)*						
MXN	32,434,905,502	USD	1,666,999,305	02/02/2023	Goldman Sachs	(12,377,270)	(0.51)
MXN	216,797,167	USD	11,194,214	03/01/2023	Morgan Stanley	(69,137)	-
MXN	32,517,570,067	USD	1,690,966,334	03/01/2023	Standard Chartered	(22,307,592)	(0.91)
MXN	62,970,946	USD	3,230,735	02/02/2023	State Street	(18,359)	-
USD	1,333	MXN	26,496	03/01/2023	Bank of America Merrill Lynch	(26)	-
USD	1,071,441	MXN	20,884,327	03/01/2023	BNP Paribas	(251)	-
USD	828,855	MXN	16,236,031	03/01/2023	BNP Paribas	(4,307)	-
USD	1,184,820	MXN	23,328,900	03/01/2023	BNP Paribas	(12,316)	-
USD	644,172	MXN	12,805,712	03/01/2023	BNP Paribas	(12,960)	-
USD	1,177,313	MXN	23,374,732	03/01/2023		(22,175)	-
USD	2,115,970	MXN	42,027,242	03/01/2023		(40,683)	-
USD	8,773,155	MXN	174,018,872	03/01/2023		(156,729)	(0.01)
USD	9,978,878	MXN	196,536,413	02/02/2023		(47,157)	-
USD	375	MXN	7,335	03/01/2023	Citibank NA	(2)	-
USD	565	MXN	11,076	03/01/2023	Citibank NA	(3)	-
USD	4,316	MXN	85,240	03/01/2023	Citibank NA	(59)	-
USD	9,828	MXN	193,082	02/02/2023	Citibank NA	(22)	-
USD USD	213 348	MXN MXN	4,206	03/01/2023	Morgan Stanley State Street	(3) (7)	-
usD	348	MXN	6,923	03/01/2023	State Street	(/)	
Total unrealised	(35,069,058)	(1.43)					

<sup>\*</sup>Contracts entered into for share class currency hedging purpose.

	Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash, cash collateral and bank overdraft Other assets and liabilities Net asset value attributable to holders of redeemable participating shares	2,481,180,426 (35,069,058) 20,399,676 (5,956,880) 2,460,554,164	100.84 (1.43) 0.83 (0.24) 100.00
Analysis of total assets (Unaudited)		% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing OTC financial derivative instruments Other assets		93.47 0.44 6.09
Total Assets		100.00

## JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-3 Months UCITS ETF

Schedule of Investments

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Bonds				
Government Debt Securities (31 Decemb	oer 2021: 94.	61%)		
United States (31 December 2021: 94.61%	)			
US Treasury Bill 0.00% 03/01/2023	USD	5,120,000	5,120,000	4.80
US Treasury Bill 0.00% 05/01/2023	USD	6,430,000	6,428,702	6.03
US Treasury Bill 0.00% 10/01/2023	USD	5,820,000	5,815,906	5.46
US Treasury Bill 0.00% 12/01/2023	USD	6,600,000	6,594,270	6.19
US Treasury Bill 0.00% 19/01/2023	USD	3,950,000	3,943,645	3.70
US Treasury Bill 0.00% 24/01/2023	USD	4,110,000	4,100,792	3.85
US Treasury Bill 0.00% 31/01/2023	USD	3,010,000	3,000,776	2.82
US Treasury Bill 0.00% 02/02/2023	USD	6,290,000	6,270,043	5.88
US Treasury Bill 0.00% 07/02/2023	USD	2,680,000	2,669,813	2.50
US Treasury Bill 0.00% 09/02/2023	USD	6,500,000	6,474,068	6.07
US Treasury Bill 0.00% 16/02/2023	USD	6,290,000	6,258,720	5.87
US Treasury Bill 0.00% 21/02/2023	USD	1,560,000	1,551,174	1.46
US Treasury Bill 0.00% 23/02/2023	USD	140,000	139,157	0.13
US Treasury Bill 0.00% 28/02/2023	USD	3,050,000	3,029,661	2.84
US Treasury Bill 0.00% 09/03/2023	USD	4,860,000	4,822,766	4.52
US Treasury Bill 0.00% 65/03/2023	USD	4,390,000	4,353,594	4.08
US Treasury Bill 0.00% 23/03/2023	USD	6,210,000	6,152,201	5.77
US Treasury Bill 0.00% 28/03/2023	USD	2,420,000	2,396,242	2.25
US Treasury Bill 0.00% 28/03/2023	USD	4,870,000	4,820,112	4.52
US Treasury Note 0.13% 31/12/2022	USD	3,070,000	3,070,000	2.88
US Treasury Note 0.13% 31/12/2022	USD	2,900,000	2,900,000	2.72
US Treasury Note 1.75% 31/01/2023	USD	1,640,000	1,637,044	1.54
US Treasury Note 0.13% 28/02/2023	USD	2,320,000	2,304,524	2.16
US Treasury Note 1.50% 28/02/2023	USD	2,520,000	2,627,880	2.10
US Treasury Note 2.63% 28/02/2023	USD	2,790,000	2,781,940	2.47
US Treasury Note 0.50% 15/03/2023	USD	2,790,000	2,781,940	2.01
US Treasury Note 0.30% 15/03/2023	USD	1,420,000	2,262,479 1,405,457	1.32
US Treasury Note 1.50% 31/03/2023	USD	2,060,000	2,045,524	1.92
US Treasury Note 2.50% 31/03/2023	USD	1,980,000	1,970,714	1.85
us measury Note 2.30% 31/03/2023	usD	1,900,000		1.00
United States total			106,967,204	100.35
Total investments in Government Debt 9	Securities		106,967,204	100.35
Total Bonds			106,967,204	100.35

# JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-3 Months UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty		Fair Value USD	Net Assets
Class MXN Hedg								
MXN	3,258,199	USD	163,506		Goldman Sachs		3,691	0.01
MXN USD	7,170,844 68,757,261	USD MXN	365,374 1,330,728,711	02/02/2023 03/01/2023	Goldman Sachs		437 470,113	0.44
	d gain on Forward Currency Contracts (31		1,550,720,711	03, 01, 2023	doraman sacris		474,241	0.45
Class MXN Hedg		uco	(0.202.102	02/02/2022			(507.011)	(0.40)
MXN MXN	1,330,728,711 14,666,147	USD USD	68,393,103 757,279		Goldman Sachs Morgan Stanley		(507,811) (4,677)	(0.48)
MXN	2,141,677,218	USD	111,370,686		Standard Chartered		(1,469,226)	(1.38)
MXN	2,353,246	USD	120,734		State Street		(686)	- (1.50)
USD	41,734,312	MXN	826,099,901	03/01/2023	BNP Paribas		(657,503)	(0.62)
USD	15,495	MXN	306,600	03/01/2023			(239)	-
USD	124,539	MXN	2,466,352	03/01/2023	Standard Chartered		(2,023)	
Total unrealised	d loss on Forward Currency Contracts (31	December 2021: (0.30)%)					(2,642,165)	(2.48)
*Contracts enter	red into for share class currency hedging p	urpose.						
	ssets at fair value through profit or loss abilities at fair value through profit or loss						Fair Value USD 107,441,445 (2,642,165)	% of Net Assets 100.79 (2.48)
Cash, cash collat	teral and bank overdraft						4,803,953	4.51
Cash equivalent	is .					Quantity/		
Undertaking for	collective investment schemes (31 Decer	nher 2021: 4 49%)			Currency	Nominal Value		
	dity Funds - USD Liquidity LVNAV Fund - Cl				USD	72,839	72,839	0.07
Total Cash equiv						*	72,839	0.07
Other assets and							(3,082,544)	2.89
	attributable to holders of redeemable pa	rticinating shares					106,593,528	100.00
Net asset value	attributable to holders of redecimable pa	recipating shares					100,373,320	
								% of
Analysis of total	l assets (Unaudited)							Total Assets
Collective invest	curities and money market instruments add ment schemes rivative instruments	nitted to official stock exchange	e listing					77.80 0.05 0.35 21.80

<sup>1</sup>A related party to the Fund.

Other assets

Total Assets

21.80

100.00

## JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 1-3 yr UCITS ETF

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Bonds				
Government Debt Securities (31 Decembe	er 2021: 99.7	4%)		
United States (31 December 2021: 99.74%)		••		
US Treasury Note 0.13% 15/02/2024	USD	6,074,000	5,772,217	6.26
US Treasury Note 1.50% 29/02/2024	USD	2,776,000	2,676,480	2.90
US Treasury Note 2.13% 29/02/2024	USD	1,477,000	1,434,246	1.56
US Treasury Note 2.38% 29/02/2024	USD	1,434,000	1,396,923	1.52
US Treasury Note 0.38% 15/04/2024	USD	9,648,000	9,129,995	9.91
US Treasury Note 2.00% 30/04/2024	USD	22,000	21,239	0.02
US Treasury Note 2.25% 30/04/2024	USD	758,000	734,049	0.80
US Treasury Note 2.00% 31/05/2024	USD	64,000	61,670	0.07
US Treasury Note 2.50% 31/05/2024	USD	150,000	145,524	0.16
US Treasury Note 0.25% 15/06/2024	USD	11,000	10,326	0.01
US Treasury Note 1.75% 30/06/2024	USD	63,000	60,389	0.07
US Treasury Note 3.00% 30/06/2024	USD	1,542,000	1,505,128	1.63
US Treasury Note 2.13% 31/07/2024	USD	374,000	359,812	0.39
US Treasury Note 3.00% 31/07/2024	USD	640,000	624,276	0.68
US Treasury Note 0.38% 15/08/2024	USD	2,725,000	2,546,508	2.76
US Treasury Note 2.38% 15/08/2024	USD	281,000	271,252	0.29
US Treasury Note 3.25% 31/08/2024	USD	1,997,000	1,955,488	2.12
US Treasury Note 0.38% 15/09/2024	USD	1,278,000	1,191,246	1.29
US Treasury Note 1.50% 30/09/2024	USD	8,315,000	7,899,223	8.57
US Treasury Note 0.63% 15/10/2024	USD	3,859,000	3,604,680	3.91
US Treasury Note 1.50% 31/10/2024	USD	1,526,000	1,446,306	1.57
US Treasury Note 2.25% 31/10/2024	USD	785,000	754,151	0.82
US Treasury Note 4.38% 31/10/2024	USD	31,000	30,911	0.03
US Treasury Note 0.75% 15/11/2024	USD	1,700,000	1,587,100	1.72
US Treasury Note 2.25% 15/11/2024	USD	491,000	471,684	0.51
US Treasury Note 1.50% 30/11/2024	USD	10,000	9,462	0.01
US Treasury Note 2.13% 30/11/2024	USD	1,395,000	1,335,648	1.45
US Treasury Note 1.00% 15/12/2024	USD	2,270,000	2,124,650	2.31
US Treasury Note 1.75% 31/12/2024	USD	1,826,000	1,733,713	1.88
US Treasury Note 2.25% 31/12/2024	USD	1,159,000	1,111,057	1.21
US Treasury Note 1.13% 15/01/2025			1,303,925	1.41
	USD	1,393,000		
US Treasury Note 2.50% 31/01/2025	USD	167,000	160,706	0.17
US Treasury Note 1.50% 15/02/2025	USD	35,000	32,951	0.04
US Treasury Note 2.00% 15/02/2025	USD	25,000	23,795	0.03
US Treasury Note 1.13% 28/02/2025	USD	2,293,000	2,141,447	2.32
US Treasury Note 2.75% 28/02/2025	USD	568,000	549,074	0.60
US Treasury Note 0.50% 31/03/2025	USD	4,884,000	4,488,081	4.87
US Treasury Note 2.63% 31/03/2025	USD	1,443,000	1,390,864	1.51
US Treasury Note 2.63% 15/04/2025	USD	400,000	384,984	0.42
US Treasury Note 0.38% 30/04/2025	USD	1,683,000	1,536,987	1.67
US Treasury Note 2.88% 30/04/2025	USD	107,000	103,590	0.11
US Treasury Note 2.13% 15/05/2025	USD	655,000	622,768	0.68
US Treasury Note 2.75% 15/05/2025	USD	1,518,000	1,463,934	1.59
US Treasury Note 0.25% 31/05/2025	USD	2,109,000	1,914,365	2.08
US Treasury Note 2.88% 31/05/2025	USD	41,000	39,649	0.04
US Treasury Note 0.25% 30/06/2025	USD	2,361,000	2,139,122	2.32
US Treasury Note 2.75% 30/06/2025	USD	388,000	373,861	0.41
US Treasury Note 3.00% 15/07/2025	USD	424,000	410,754	0.45
US Treasury Note 0.25% 31/07/2025	USD	2,330,000	2,102,825	2.28
US Treasury Note 2.88% 31/07/2025	USD	1,612,000	1,557,848	1.69
US Treasury Note 2.00% 15/08/2025	USD	2,526,000	2,385,874	2.59
US Treasury Note 3.13% 15/08/2025	USD	838,000	813,675	0.88
US Treasury Note 0.25% 31/08/2025	USD	2,352,000	2,116,177	2.30
US Treasury Note 2.75% 31/08/2025	USD	250,000	240,422	0.26
US Treasury Note 3.50% 15/09/2025	USD	1,711,000	1,677,232	1.82
US Treasury Note 0.25% 30/09/2025	USD	2,629,000	2,361,167	2.56
US Treasury Note 3.00% 30/09/2025	USD	481,000	465,070	0.50
US Treasury Note 4.25% 15/10/2025	USD	150,000	149,918	0.16
US Treasury Note 4.25% 15/10/2025	USD	2,370,000	2,120,392	2.30
US Treasury Note 2.25% 15/11/2025			729,094	0.79
	USD	770,000		
US Treasury Note 4.50% 15/11/2025	USD	176,000	177,117	0.19
US Treasury Note 0.38% 30/11/2025	USD	2,459,000	2,200,899	2.39
US Treasury Note 0.38% 31/12/2025	USD	1,768,000	1,580,647	1.71
United States total			91,764,567	99.57
Total investments in Government Debt Se	ecurities		91,764,567	99.57
Total Bonds		•	91 764 567	90 57
Total Bollus		:	91,764,567	99.57

# JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 1-3 yr UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class MXN Hedge	d (acc)*						
MXN	88,970	USD	4,499	03/01/2023	Barclays	67	-
MXN	85,997	USD	4,387	03/01/2023	Morgan Stanley	26	-
MXN	121,008	USD	6,166	02/02/2023		8	-
USD	1,151,607	MXN	22,288,217	03/01/2023	Goldman Sachs	7,874	0.01
USD	2,332	MXN	45,452	02/02/2023	State Street	13	-
Total unrealised	gain on Forward Currency Contracts (3	1 December 2021: 0.02%)				7,988	0.01
Class MXN Hedge	d (acc)*						
MXN	51,050	USD	2,637	03/01/2023	Goldman Sachs	(18)	-
MXN	89,858	USD	4,641	03/01/2023	Goldman Sachs	(30)	-
MXN	22,288,217	USD	1,145,508	02/02/2023	Goldman Sachs	(8,505)	(0.01)
MXN	53,902	USD	2,796	03/01/2023	Morgan Stanley	(30)	-
MXN	149,767	USD	7,733	03/01/2023	Morgan Stanley	(48)	-
MXN	29,394,904	USD	1,528,583	03/01/2023	Standard Chartered	(20,165)	(0.02)
USD	378,131	MXN	7,484,756	03/01/2023	BNP Paribas	(5,954)	(0.01)
USD	2,999	MXN	59,768	03/01/2023	Goldman Sachs	(68)	-
USD	284	MXN	5,628	03/01/2023	HSBC	(4)	-
USD	3,851	MXN	76,078	03/01/2023	State Street	(53)	
Total unrealised	loss on Forward Currency Contracts (3	1 December 2021: 0.00%) <sup>1</sup>				(34,875)	(0.04)

 $<sup>\</sup>mbox{{\fontfacts}}$  entered into for share class currency hedging purpose.

	Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash Other sects and liabilities	91,772,555 (34,875) 66,235	99.58 (0.04) 0.07
financial liabilities at fair value through profit or loss  assets and liabilities  sset value attributable to holders of redeemable participating shares	353,383 92,157,298	0.39 100.00
Analysis of total assets (Unaudited)		% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing OTC financial derivative instruments Other assets		92.91 0.01 7.08
Total Assets		100.00

 $<sup>^{1}\!\</sup>text{Prior}$  year percentage of net asset value rounds to 0.00%.

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Bonds					US Treasury Note 2.88% 31/07/2025	USD	1,502,000	1,451,543	0.69
Government Debt Securities (31 Decemb	er 2021: 98.	62%)			US Treasury Note 0.25% 31/08/2025 US Treasury Note 3.50% 15/09/2025	USD	2,413,000	2,171,061 186,250	1.03
United States (31 December 2021: 98.62%,	)				US Treasury Note 0.25% 30/09/2025	USD USD	190,000 772,000	693,351	0.09
US Treasury Note 0.38% 30/04/2025 US Treasury Note 0.38% 31/12/2025	USD	1,239,000	1,131,507 1,214,095	0.54 0.57	US Treasury Note 3.00% 30/09/2025	USD	403,000	389,653	0.18
US Treasury Bond 4.38% 15/02/2038	USD USD	1,358,000 1,292,000	1,356,866	0.57	US Treasury Note 3.00% 31/10/2025 US Treasury Note 2.25% 15/11/2025	USD USD	1,412,000 4,044,000	1,364,217 3,829,166	0.65 1.81
US Treasury Bond 3.50% 15/02/2039	USD	410,000	386,227	0.18	US Treasury Note 0.38% 30/11/2025	USD	50,000	44,752	0.02
US Treasury Bond 4.25% 15/05/2039 US Treasury Bond 4.50% 15/08/2039	USD USD	196,000 129,000	202,288 137,045	0.10 0.07	US Treasury Note 2.88% 30/11/2025	USD	1,651,000	1,589,329	0.75
US Treasury Bond 1.13% 15/05/2040	USD	417,000	261,677	0.12	US Treasury Note 2.63% 31/12/2025 US Treasury Note 0.38% 31/01/2026	USD USD	3,680,000 79,000	3,519,826 70,314	1.66 0.03
US Treasury Bond 4.38% 15/05/2040	USD	53,000	55,245	0.03	US Treasury Note 2.63% 31/01/2026	USD	420,000	401,475	0.19
US Treasury Bond 1.13% 15/08/2040 US Treasury Bond 3.88% 15/08/2040	USD USD	109,000 50,000	67,957 48,861	0.03 0.02	US Treasury Note 1.63% 15/02/2026 US Treasury Note 2.50% 28/02/2026	USD	2,480,000	2,295,001 1,389,113	1.09 0.66
US Treasury Bond 4.75% 15/02/2041	USD	690,000	752,295	0.36	US Treasury Note 2.30% 28/02/2020	USD USD	1,462,000 843,000	755,935	0.36
US Treasury Bond 2.25% 15/05/2041	USD	1,822,000	1,371,499	0.65	US Treasury Note 2.25% 31/03/2026	USD	2,077,000	1,957,897	0.93
US Treasury Bond 3.75% 15/08/2041 US Treasury Bond 3.13% 15/11/2041	USD USD	822,000 3,797,000	782,291 3,286,220	0.37 1.55	US Treasury Note 2.13% 31/05/2026 US Treasury Note 0.88% 30/06/2026	USD USD	141,000 260,000	131,945 232,507	0.06
US Treasury Bond 2.38% 15/02/2042	USD	4,599,000	3,515,552	1.66	US Treasury Note 0.88% 30/06/2026	USD	3,000,000	2,783,310	1.32
US Treasury Bond 3.13% 15/02/2042 US Treasury Bond 3.00% 15/05/2042	USD USD	3,780,000 3,536,000	3,263,883 2,979,436	1.54 1.41	US Treasury Note 0.63% 31/07/2026	USD	1,776,000	1,569,259	0.74
US Treasury Bond 2.75% 15/08/2042	USD	2,891,000	2,332,120	1.10	US Treasury Note 1.88% 31/07/2026 US Treasury Note 1.50% 15/08/2026	USD USD	229,000 182,000	211,877 165,988	0.10
US Treasury Bond 3.38% 15/08/2042	USD	3,836,000	3,431,948	1.62	US Treasury Note 0.75% 31/08/2026	USD	3,951,000	3,499,137	1.65
US Treasury Bond 2.75% 15/11/2042 US Treasury Bond 4.00% 15/11/2042	USD USD	684,000 141,000	549,976 138,155	0.26 0.07	US Treasury Note 1.38% 31/08/2026	USD	243,000	220,370	0.10
US Treasury Bond 2.88% 15/05/2043	USD	57,000	46,668	0.02	US Treasury Note 0.88% 30/09/2026 US Treasury Note 1.63% 30/09/2026	USD USD	3,416,000 2,226,000	3,034,360 2,037,123	1.44 0.96
US Treasury Bond 3.63% 15/08/2043	USD	131,000	120,793	0.06	US Treasury Note 1.13% 31/10/2026	USD	257,000	229,865	0.11
US Treasury Bond 2.50% 15/02/2045 US Treasury Bond 3.00% 15/11/2045	USD USD	1,120,000 239,000	847,029 197,384	0.40 0.09	US Treasury Note 2.00% 15/11/2026 US Treasury Note 1.50% 31/01/2027	USD	2,348,000	2,171,544 1,010,598	1.03
US Treasury Bond 2.50% 15/02/2046	USD	600,000	450,922	0.21	US Treasury Note 1.30% 31/01/2027	USD USD	1,119,000 462,000	410,892	0.48
US Treasury Bond 2.50% 15/05/2046	USD	763,000	572,121	0.27	US Treasury Note 1.88% 28/02/2027	USD	1,359,000	1,244,778	0.59
US Treasury Bond 2.25% 15/08/2046 US Treasury Bond 2.88% 15/11/2046	USD USD	132,000 3,963,000	93,961 3,191,287	0.04 1.51	US Treasury Note 0.63% 31/03/2027 US Treasury Note 2.50% 31/03/2027	USD USD	2,441,000 3,290,000	2,118,320 3,088,801	1.00 1.46
US Treasury Bond 3.38% 15/11/2048	USD	72,000	63,859	0.03	US Treasury Note 2.75% 30/04/2027	USD	1,111,000	1,053,363	0.50
US Treasury Bond 3.00% 15/02/2049 US Treasury Bond 2.88% 15/05/2049	USD USD	1,046,000 3,114,000	866,399 2,518,268	0.41 1.19	US Treasury Note 0.50% 31/05/2027	USD	3,615,000	3,100,208	1.47
US Treasury Bond 1.25% 15/05/2050	USD	70,000	37,865	0.02	US Treasury Note 2.63% 31/05/2027 US Treasury Note 0.50% 30/06/2027	USD USD	359,000 3,743,000	338,443 3,202,410	0.16 1.51
US Treasury Bond 1.38% 15/08/2050	USD	479,000	267,993	0.13	US Treasury Note 3.25% 30/06/2027	USD	612,000	591,928	0.28
US Treasury Bond 2.38% 15/05/2051 US Treasury Bond 2.00% 15/08/2051	USD USD	301,000 2,551,000	216,998 1,679,152	0.10 0.79	US Treasury Note 2.25% 15/08/2027	USD	2,395,000	2,215,739	1.05
US Treasury Bond 1.88% 15/11/2051	USD	4,853,000	3,090,480	1.46	US Treasury Note 3.13% 31/08/2027 US Treasury Note 0.38% 30/09/2027	USD USD	1,776,000 2,414,000	1,708,781 2,036,049	0.81 0.96
US Treasury Bond 2.25% 15/02/2052	USD	4,885,000	3,414,999	1.62	US Treasury Note 4.13% 30/09/2027	USD	2,590,000	2,599,941	1.23
US Treasury Bond 2.88% 15/05/2052 US Treasury Bond 3.00% 15/08/2052	USD USD	1,038,000 2,791,000	835,889 2,314,185	0.40 1.09	US Treasury Note 4.13% 31/10/2027 US Treasury Note 2.25% 15/11/2027	USD USD	377,000 2,828,000	378,440 2,606,625	0.18 1.23
US Treasury Note 1.63% 31/10/2023	USD	739,000	720,785	0.34	US Treasury Note 3.88% 30/11/2027	USD	200,000	198,917	0.09
US Treasury Note 2.88% 31/10/2023 US Treasury Note 0.25% 15/11/2023	USD	524,000	516,387 104,853	0.24 0.05	US Treasury Note 0.63% 31/12/2027	USD	678,000	574,578	0.27
US Treasury Note 2.50% 31/01/2024	USD USD	109,000 2,816,000	2,750,438	1.30	US Treasury Note 0.75% 31/01/2028 US Treasury Note 2.75% 15/02/2028	USD USD	3,588,000 424,000	3,052,581 398,726	1.44 0.19
US Treasury Note 0.13% 15/02/2024	USD	1,945,000	1,848,364	0.87	US Treasury Note 1.13% 29/02/2028	USD	631,000	546,456	0.26
US Treasury Note 2.75% 15/02/2024 US Treasury Note 2.13% 29/02/2024	USD USD	50,000 103,000	48,928 100,019	0.02 0.05	US Treasury Note 1.25% 31/03/2028	USD	262,000	227,858	0.11
US Treasury Note 2.13% 31/03/2024	USD	706,000	684,129	0.32	US Treasury Note 1.25% 30/04/2028 US Treasury Note 2.88% 15/05/2028	USD USD	483,000 78,000	419,248 73,651	0.20
US Treasury Note 2.25% 30/04/2024	USD	162,000	156,881	0.07	US Treasury Note 1.25% 30/06/2028	USD	3,483,000	3,012,048	1.42
US Treasury Note 2.50% 30/04/2024 US Treasury Note 2.50% 15/05/2024	USD USD	3,343,000 3,998,000	3,248,181 3,880,727	1.54 1.84	US Treasury Note 2.88% 15/08/2028 US Treasury Note 1.38% 31/12/2028	USD	4,092,000 1,511,000	3,854,057 1,302,742	1.82 0.62
US Treasury Note 2.50% 31/05/2024	USD	2,774,000	2,691,218	1.27	US Treasury Note 2.63% 15/02/2029	USD USD	3,673,000	3,397,137	1.61
US Treasury Note 1.75% 30/06/2024 US Treasury Note 3.00% 30/06/2024	USD USD	50,000 200,000	47,928 195,218	0.02 0.09	US Treasury Note 2.38% 31/03/2029	USD	780,000	709,991	0.34
US Treasury Note 0.38% 15/07/2024	USD	529,000	495,671	0.09	US Treasury Note 2.38% 15/05/2029 US Treasury Note 2.75% 31/05/2029	USD USD	335,000 50,000	304,578 46,454	0.14
US Treasury Note 1.75% 31/07/2024	USD	2,173,000	2,078,862	0.98	US Treasury Note 2.63% 31/07/2029	USD	52,000	47,893	0.02
US Treasury Note 0.38% 15/08/2024 US Treasury Note 2.38% 15/08/2024	USD USD	2,282,000 142,000	2,132,525 137,074	1.01 0.07	US Treasury Note 1.63% 15/08/2029	USD	2,892,000	2,509,137	1.19
US Treasury Note 1.25% 31/08/2024	USD	1,543,000	1,461,142	0.69	US Treasury Note 1.75% 15/11/2029 US Treasury Note 1.50% 15/02/2030	USD USD	535,000 1,566,000	466,951 1,334,623	0.22
US Treasury Note 1.88% 31/08/2024	USD	3,000,000	2,870,136	1.36	US Treasury Note 0.63% 15/05/2030	USD	233,000	184,467	0.09
US Treasury Note 0.38% 15/09/2024 US Treasury Note 2.13% 30/09/2024	USD USD	1,972,000 598,000	1,838,135 573,987	0.87 0.27	US Treasury Note 0.63% 15/08/2030 US Treasury Note 0.88% 15/11/2030	USD	4,828,000	3,800,738 2,235,647	1.80
US Treasury Note 4.25% 30/09/2024	USD	566,000	563,085	0.27	US Treasury Note 0.88% 15/11/2030	USD USD	2,796,000 6,552,000	5,515,435	1.06 2.61
US Treasury Note 1.50% 31/10/2024	USD	477,000	452,089	0.21	US Treasury Note 1.25% 15/08/2031	USD	5,904,000	4,793,678	2.27
US Treasury Note 2.25% 31/10/2024 US Treasury Note 4.38% 31/10/2024	USD USD	2,926,000 90,000	2,811,014 89,742	1.33 0.04	US Treasury Note 1.38% 15/11/2031 US Treasury Note 2.88% 15/05/2032	USD USD	6,478,000 3,134,000	5,276,122 2,889,667	2.50 1.37
US Treasury Note 2.25% 15/11/2024	USD	275,000	264,182	0.13	US Treasury Note 2.75% 15/08/2032	USD	900,000	819,427	0.39
US Treasury Note 1.50% 30/11/2024 US Treasury Note 1.00% 15/12/2024	USD USD	333,000 620,000	315,077 580,301	0.15 0.27	United States total				
US Treasury Note 1.75% 31/12/2024	USD	2,200,000	2,088,811	0.27	united States total			210,139,275	99.36
US Treasury Note 1.13% 15/01/2025	USD	3,217,000	3,011,290	1.42	Total investments in Government Debt	Securities		210,139,275	99.36
US Treasury Note 2.50% 31/01/2025 US Treasury Note 2.00% 15/02/2025	USD USD	84,000 1,031,000	80,834 981,306	0.04 0.46					
US Treasury Note 1.13% 28/02/2025	USD	1,845,000	1,723,057	0.81	Total Bonds			210,139,275	99.36
US Treasury Note 2.75% 28/02/2025	USD	685,000	662,176	0.31					
US Treasury Note 0.50% 31/03/2025 US Treasury Note 2.63% 31/03/2025	USD USD	696,000 1,036,000	639,579 998,569	0.30 0.47					
US Treasury Note 2.63% 15/04/2025	USD	50,000	48,123	0.02					
US Treasury Note 2.88% 30/04/2025	USD	326,000	315,611	0.15					
US Treasury Note 0.25% 31/05/2025 US Treasury Note 2.75% 30/06/2025	USD USD	935,000 1,504,000	848,711 1,449,191	0.40 0.69					
US Treasury Note 3.00% 15/07/2025	USD	556,000	538,630	0.25					
US Treasury Note 0.25% 31/07/2025	USD	1,009,000	910,623	0.43					

#### JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class GBP Hedge	d (acc)*						
GBP	145,298	USD	172,908	03/01/2023	BNP Paribas	1,871	_
GBP	485,718	USD	579,340	03/01/2023		4,931	-
GBP	539	USD	643	03/01/2023		5	-
USD	1,076,427	GBP	880.459	03/01/2023	Barclavs	17,323	0.01
USD	1,720,831	GBP	1,428,713	02/02/2023		776	-
USD	457,177	GBP	373,835	03/01/2023	BNP Paribas	7,491	-
USD	821,510	GBP	676,298	03/01/2023		7,991	-
USD	1,033,181	GBP	849,664		Morgan Stanley	11,120	0.01
USD	502,458	GBP	409,904		Morgan Stanley	9,384	0.01
USD	1.600	GBP	1,313		Morgan Stanley	21	-
USD	132	GBP	107		Morgan Stanley	3	-
USD	153,029,590	GBP	127,056,666		State Street	193,071	0.09
USD	966,456	GBP	786,814		State Street	19,998	0.01
USD	1,521	GBP	1,250		State Street	17	-
Total unrealised	gain on Forward Currency Contracts (3)	1 December 2021: 1.39%)				274,002	0.13
Class GBP Hedge							
GBP	994,447	USD	1,211,220	03/01/2023		(14,998)	(0.01)
GBP	681,251	USD	843,343	03/01/2023		(23,866)	(0.01)
GBP	208,687	USD	253,289		BNP Paribas	(2,259)	-
GBP	186,037	USD	227,567		BNP Paribas	(3,784)	-
GBP	167,733	USD	205,704		BNP Paribas	(3,938)	-
GBP	221,669	USD	271,237			(4,592)	-
GBP	1,112,808	USD	1,358,421		BNP Paribas	(19,824)	(0.01)
GBP	1,735,168	USD	2,152,986	03/01/2023	BNP Paribas	(65,752)	(0.03)
GBP	8,696	USD	10,590	03/01/2023		(130)	-
GBP	252,246	USD	311,231		HSBC	(7,804)	(0.01)
GBP	407,663	USD	499,994	03/01/2023		(9,617)	(0.01)
GBP	792,469	USD	969,034	03/01/2023	HSBC	(15,773)	(0.01)
GBP	121,914,566	USD	146,888,655	03/01/2023		(237,571)	(0.11)
GBP	274,727	USD	330,769	. , . ,		(19)	-
GBP	1,244	USD	1,524			(28)	-
GBP	631,326	USD	765,572		Morgan Stanley	(6,150)	-
GBP	893	USD	1,088	03/01/2023		(14)	-
GBP	10,354	USD	12,851	03/01/2023		(396)	-
GBP	515,679	USD	627,827		State Street	(7,517)	- ( :
GBP	1,072,906	USD	1,308,506		State Street	(17,907)	(0.01)
GBP	127,056,666	USD	153,151,284	02/02/2023		(185,228)	(0.09)
USD	614,643	GBP	511,085	03/01/2023	Morgan Stanley	(141)	
Total unrealised	loss on Forward Currency Contracts (31	December 2021: (0.45)%)				(627,308)	(0.30)

 $<sup>\</sup>star$ Contracts entered into for share class currency hedging purpose.

## JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash and cash collateral			210,413,277 (627,308) 734,797	99.49 (0.30) 0.35
Undertaking for collective investment schemes (31 December 2021: 0.19%) JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) Total Cash equivalents Other assets and liabilities Net asset value attributable to holders of redeemable participating shares	<b>Currency</b> USD	Quantity/ Nominal Value 213,360	213,360 213,360 750,310 211,484,436	0.10 0.10 0.36 100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Collective investment schemes OTC financial derivative instruments Other assets  Total Assets				95.82 0.81 0.10 0.13 3.14 100.00

<sup>1</sup>A related party to the Fund.

Schedule of Investments

Equities  China 360 Security Technology, Inc. 'A' 37 Interactive Entertainment Network Technology Group Co. Ltd. 'A' Agricultural Bank of China Ltd. 'A' Alibaba Group Holding Ltd. ADR ANTA Sports Products Ltd. Baidu, Inc. ADR Bank of China Ltd. 'H' Baoshan Iron & Steel Co. Ltd. 'A' Beijing New Building Materials plc 'A' BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A' Chengxin Lithium Group Co. Ltd. 'A'	CNH CNH USD HKD USD HKD CNH	2,600 1,300 131,500 4,802 5,200 897 291,000 12,100 900 22,500 2,700 300 500	2,458 3,401 55,308 423,008 68,157 102,599 105,887 9,776 3,366 10,992 100,280	0.05 0.07 1.11 8.46 1.36 2.05 2.12 0.20 0.07 0.22	Lenovo Group Ltd. Li Auto, Inc. ADR Li Ning Co. Ltd. LONGi Green Energy Technology Co. Ltd. 'A' Lufax Holding Ltd. ADR Mango Excellent Media Co. Ltd. 'A' Meituan 'B' Metallurgical Corp. of China Ltd. 'A' Ming Yang Smart Energy Group Ltd. 'A' NARI Technology Co. Ltd. 'A' NAURA Technology Group Co. Ltd. 'A'	HKD USD HKD CNH USD CNH HKD CNH CNH	44,000 1,232 9,000 4,200 2,601 800 10,100 22,700 1,200	36,136 25,133 78,124 25,653 5,046 3,471 226,071 10,433 4,381	0.72 0.50 1.56 0.51 0.10 0.07 4.52 0.21
360 Security Technology, Inc. 'A' 37 Interactive Entertainment Network Technology Group Co. Ltd. 'A' Agricultural Bank of China Ltd. 'A' Alibaba Group Holding Ltd. ADR ANTA Sports Products Ltd. Baidu, Inc. ADR Bank of China Ltd. 'H' Baoshan Iron & Steel Co. Ltd. 'A' Beijing New Building Materials plc 'A' BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	CNH CNH USD HKD USD HKD CNH	1,300 131,500 4,802 5,200 897 291,000 12,100 900 22,500 2,700	3,401 55,308 423,008 68,157 102,599 105,887 9,776 3,366 10,992	0.07 1.11 8.46 1.36 2.05 2.12 0.20 0.07	Li Ning Co. Ltd. LONGi Green Energy Technology Co. Ltd. 'A' Lufax Holding Ltd. ADR Mango Excellent Media Co. Ltd. 'A' Meituan 'B' Metallurgical Corp. of China Ltd. 'A' Ming Yang Smart Energy Group Ltd. 'A' NARI Technology Co. Ltd. 'A'	CNH USD CNH HKD CNH CNH	9,000 4,200 2,601 800 10,100 22,700 1,200	78,124 25,653 5,046 3,471 226,071 10,433 4,381	0.51 0.10 0.07 4.52
37 Interactive Entertainment Network Technology Group Co. Ltd. 'A' Agricultural Bank of China Ltd. 'A' Alibaba Group Holding Ltd. ADR ANTA Sports Products Ltd. Baidu, Inc. ADR Bank of China Ltd. 'H' Baoshan Iron & Steel Co. Ltd. 'A' Beijing New Building Materials plc 'A' BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	CNH CNH USD HKD USD HKD CNH	1,300 131,500 4,802 5,200 897 291,000 12,100 900 22,500 2,700	3,401 55,308 423,008 68,157 102,599 105,887 9,776 3,366 10,992	0.07 1.11 8.46 1.36 2.05 2.12 0.20 0.07	'A' Lufax Holding Ltd. ADR Mango Excellent Media Co. Ltd. 'A' Meituan 'B' Metallurgical Corp. of China Ltd. 'A' Ming Yang Smart Energy Group Ltd. 'A' NARI Technology Co. Ltd. 'A'	USD CNH HKD CNH CNH	2,601 800 10,100 22,700 1,200	5,046 3,471 226,071 10,433 4,381	0.10 0.07 4.52
Technology Group Co. Ltd. 'A' Agricultural Bank of China Ltd. 'A' Alibaba Group Holding Ltd. ADR ANTA Sports Products Ltd. Baidu, Inc. ADR Bank of China Ltd. 'H' Baoshan Iron & Steel Co. Ltd. 'A' Beijing New Building Materials plc 'A' BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	CNH USD HKD USD HKD CNH	131,500 4,802 5,200 897 291,000 12,100 900 22,500 2,700	55,308 423,008 68,157 102,599 105,887 9,776 3,366 10,992	1.11 8.46 1.36 2.05 2.12 0.20 0.07	Lufax Holding Ltd. ADR Mango Excellent Media Co. Ltd. 'A' Meituan 'B' Metallurgical Corp. of China Ltd. 'A' Ming Yang Smart Energy Group Ltd. 'A' NARI Technology Co. Ltd. 'A'	USD CNH HKD CNH CNH	2,601 800 10,100 22,700 1,200	5,046 3,471 226,071 10,433 4,381	0.10 0.07 4.52
Alibaba Group Holding Ltd. ADR ANTA Sports Products Ltd. Baidu, Inc. ADR Bank of China Ltd. 'H' Baoshan Iron & Steel Co. Ltd. 'A' Beijing New Building Materials plc 'A' BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	USD HKD USD HKD CNH CNH CNH CNH CNH CNH CNH CNH	4,802 5,200 897 291,000 12,100 900 22,500 2,700	423,008 68,157 102,599 105,887 9,776 3,366 10,992	8.46 1.36 2.05 2.12 0.20 0.07	Mango Excellent Media Co. Ltd. 'A' Meituan 'B' Metallurgical Corp. of China Ltd. 'A' Ming Yang Smart Energy Group Ltd. 'A' NARI Technology Co. Ltd. 'A'	CNH HKD CNH CNH	800 10,100 22,700 1,200	3,471 226,071 10,433 4,381	0.07 4.52
ANTA Sports Products Ltd. Baidu, Inc. ADR Bank of China Ltd. 'H' Baoshan Iron & Steel Co. Ltd. 'A' Beijing New Building Materials plc 'A' BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	HKD USD HKD CNH	5,200 897 291,000 12,100 900 22,500 2,700	68,157 102,599 105,887 9,776 3,366 10,992	1.36 2.05 2.12 0.20 0.07	Meituan 'B' Metallurgical Corp. of China Ltd. 'A' Ming Yang Smart Energy Group Ltd. 'A' NARI Technology Co. Ltd. 'A'	HKD CNH CNH	10,100 22,700 1,200	10,433 4,381	
Baidu, Inc. ADR Bank of China Ltd. 'H' Baoshan Iron & Steel Co. Ltd. 'A' Beijing New Building Materials plc 'A' BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	USD HKD CNH CNH CNH CNH CNH CNH CNH CNH	897 291,000 12,100 900 22,500 2,700	102,599 105,887 9,776 3,366 10,992	2.05 2.12 0.20 0.07	Ming Yang Smart Energy Group Ltd. 'A' NARI Technology Co. Ltd. 'A'	CNH	1,200	4,381	0.21
Baoshan Iron & Steel Co. Ltd. 'A' Beijing New Building Materials plc 'A' BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	CNH CNH CNH CNH CNH CNH CNH CNH	12,100 900 22,500 2,700	9,776 3,366 10,992	0.20 0.07	NARI Technology Co. Ltd. 'A'				
Beijing New Building Materials plc 'A' BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	CNH CNH CNH CNH CNH CNH CNH	900 22,500 2,700 300	3,366 10,992	0.07		CNH		1 4 4 5 0	0.09
BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	CNH CNH CNH CNH CNH CNH	22,500 2,700 300	10,992			CNH	4,100 300	14,459 9,769	0.29 0.20
BYD Co. Ltd. 'A' Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	CNH CNH CNH CNH CNH	2,700 300			NetEase, Inc. ADR	USD	911	66,166	1.32
Changchun High & New Technology Industry Group, Inc. 'A' Chaozhou Three-Circle Group Co. Ltd. 'A'	CNH CNH CNH CNH	300	100,200	2.01	NIO, Inc. ADR	USD	2,769	26,998	0.54
Chaozhou Three-Circle Group Co. Ltd. 'A'	CNH CNH CNH			2.01	Nongfu Spring Co. Ltd. 'H'	HKD	1,400	7,910	0.16
	CNH CNH	500	7,217	0.14	Pangang Group Vanadium Titanium & Resources Co. Ltd. 'A'	CNH	4,600	3,145	0.06
Chengxin Lithium Group Co. Ltd. A	CNH	500	2,219	0.04	PetroChina Co. Ltd. 'A'	CNH	43,200	31,032	0.62
China CITIC Bank Corp. Ltd. 'A'		500 50,100	2,709 36,061	0.05 0.72	Pinduoduo, Inc. ADR	USD	1,677	136,759	2.74
China Construction Bank Corp. 'H'		283.000	177,307	3.55	Ping An Bank Co. Ltd. 'A'	CNH	10,300	19,591	0.39
China Energy Engineering Corp. Ltd. 'A'	CNH	44,900	14,861	0.30	Ping An Insurance Group Co. of China Ltd.	CNIII	10.000	125 101	2.70
China Feihe Ltd.	HKD	20,000	17,015	0.34	'A' Poly Developments & Holdings Group Co.	CNH	19,900	135,181	2.70
China International Marine Containers	CNIII	1,000	1.022	0.04	Ltd. 'A'	CNH	900	1,968	0.04
Group Co. Ltd. 'A' China Life Insurance Co. Ltd. 'H'	CNH HKD	1,900 6,000	1,933 10,301	0.04	Postal Savings Bank of China Co. Ltd. 'H'	HKD	71,000	44,119	0.88
China Literature Ltd.	HKD	3,000	11,646	0.23	Sany Heavy Industry Co. Ltd. 'A'	CNH	5,200	11,875	0.24
China Longyuan Power Group Corp. Ltd.					Shandong Gold Mining Co. Ltd. 'A' Shandong Nanshan Aluminum Co. Ltd. 'A'	CNH CNH	1,900	5,262 3,025	0.11
'H'	HKD	26,000	31,780	0.64	Shandong Weigao Group Medical Polymer	CNH	6,400	5,025	0.06
China Merchants Bank Co. Ltd. 'A' China Merchants Shekou Industrial Zone	CNH	10,100	54,391	1.09	Co. Ltd. 'H'	HKD	13,200	21,682	0.43
Holdings Co. Ltd. 'A'	CNH	2,300	4,199	0.08	Shanghai Baosight Software Co. Ltd. 'A'	CNH	2,700	17,483	0.35
China Oilfield Services Ltd. 'A'	CNH	5,000	11,982	0.24	Shanghai Electric Group Co. Ltd. 'A'	CNH	17,100	9,738	0.19
China Pacific Insurance Group Co. Ltd. 'A'	CNH	12,500	44,299	0.89	Shanghai Pharmaceuticals Holding Co. Ltd. 'A'	CNH	5,200	13,400	0.27
China Petroleum & Chemical Corp. 'A'	CNH	55,400	34,911	0.70	Shanxi Taigang Stainless Steel Co. Ltd. 'A'	CNH	3,300	2,060	0.04
China State Construction Engineering Corp. Ltd. 'A'	CNH	25,800	20,248	0.40	Shenzhen Capchem Technology Co. Ltd.				
China Suntien Green Energy Corp. Ltd. 'H'	HKD	22,000	9,161	0.18	'A'	CNH	400	2,513	0.05
China Tourism Group Duty Free Corp. Ltd.					Shenzhen Inovance Technology Co. Ltd. 'A'	CNH	1,600	16,072	0.32
'A' China Tower Corp. Ltd. 'II'	CNH	1,100	34,346 34,655	0.69 0.69	Shenzhou International Group Holdings	CIVII	1,000	,	
China Tower Corp. Ltd. 'H' China Vanke Co. Ltd. 'A'	HKD CNH	322,000 13,000	34,033	0.69	Ltd.	HKD	1,500	16,874	0.34
Chongqing Changan Automobile Co. Ltd.	CIVIT	13,000	31,170	0.00	Sichuan Road & Bridge Group Co. Ltd. 'A'	CNH	2,700	4,339	0.09
'A'	CNH	5,800	10,319	0.21	Sinopharm Group Co. Ltd. 'H' Sinotruk Hong Kong Ltd.	HKD HKD	13,600 7,000	34,571 9,758	0.69 0.20
CITIC Securities Co. Ltd. 'A'	CNH	3,800	10,935	0.22	Sungrow Power Supply Co. Ltd. 'A'	CNH	900	14,543	0.29
CMOC Group Ltd. 'A' Contemporary Amperex Technology Co.	CNH	32,900	21,636	0.43	Sunny Optical Technology Group Co. Ltd.	HKD	2,000	23,793	0.48
Ltd. 'A'	CNH	700	39,803	0.80	TBEA Co. Ltd. 'A'	CNH	2,300	6,675	0.13
Country Garden Holdings Co. Ltd.	HKD	50,000	17,105	0.34	TCL Technology Group Corp. 'A'	CNH	8,600	4,624	0.09
CRRC Corp. Ltd. 'A'	CNH	25,500	18,833	0.38	TCL Zhonghuan Renewable Energy Technology Co. Ltd. 'A'	CNH	2,000	10,886	0.22
DHC Software Co. Ltd. 'A'	CNH	2,200	1,800	0.04	Tencent Holdings Ltd.	HKD	15,900	680,414	13.61
Dongfang Electric Corp. Ltd. 'A' ENN Energy Holdings Ltd.	CNH HKD	3,400 3,600	10,329 50,553	0.21 1.01	Tongcheng Travel Holdings Ltd.	HKD	6,000	14,437	0.29
ENN Natural Gas Co. Ltd. 'A'	CNH	1,200	2,792	0.06	Tongling Nonferrous Metals Group Co.	Chill	5 700	2.570	0.05
Fangda Carbon New Material Co. Ltd. 'A'	CNH	2,300	2,034	0.04	Ltd. 'A' Tongwei Co. Ltd. 'A'	CNH CNH	5,700 2,800	2,570 15,613	0.05 0.31
Foshan Haitian Flavouring & Food Co. Ltd.					Topchoice Medical Corp. 'A'	CNH	2,800	4,422	0.09
'A'	CNH	1,800	20,709	0.41	Trina Solar Co. Ltd. 'A'	CNH	1,339	12,339	0.25
Full Truck Alliance Co. Ltd. ADR Ganfeng Lithium Group Co. Ltd. 'A'	USD CNH	540 2,500	4,320 25,116	0.09 0.50	Trip.com Group Ltd. ADR	USD	2,077	71,449	1.43
GEM Co. Ltd. 'A'	CNH	2,700	2,899	0.06	Tsingtao Brewery Co. Ltd. 'A'	CNH	1,800	27,967	0.56
Gotion High-tech Co. Ltd. 'A'	CNH	1,000	4,167	0.08	Unisplendour Corp. Ltd. 'A' Universal Scientific Industrial Shanghai	CNH	1,700	4,794	0.10
Great Wall Motor Co. Ltd. 'H'	HKD	16,000	20,828	0.42	Co. Ltd. 'A'	CNH	900	2,111	0.04
Gree Electric Appliances, Inc. of Zhuhai 'A' Guangzhou Baiyunshan Pharmaceutical	CNH	3,000	14,014	0.28	Walvax Biotechnology Co. Ltd. 'A'	CNH	1,000	5,809	0.12
Holdings Co. Ltd. 'A'	CNH	2,100	9,042	0.18	Wanhua Chemical Group Co. Ltd. 'A'	CNH	900	12,052	0.24
Guangzhou Tinci Materials Technology Co.					Weichai Power Co. Ltd. 'A' Wens Foodstuffs Group Co. Ltd. 'A'	CNH	15,700	23,100	0.46
Ltd. 'A'	CNH	1,000	6,339	0.13	Western Superconducting Technologies	CNH	3,500	9,930	0.20
Haier Smart Home Co. Ltd. 'A' Hangzhou Tigermed Consulting Co. Ltd.	CNH	11,600	41,009	0.82	Co. Ltd. 'A'	CNH	286	3,914	0.08
'A'	CNH	1,200	18,176	0.36	Wuliangye Yibin Co. Ltd. 'A'	CNH	1,600	41,785	0.84
Henan Shuanghui Investment &	• • • • • • • • • • • • • • • • • • • •	-,			Wuxi Biologics Cayman, Inc.	HKD	7,500	57,512	1.15
Development Co. Ltd. 'A'	CNH	600	2,249	0.04	XCMG Construction Machinery Co. Ltd. 'A' Xiamen Tungsten Co. Ltd. 'A'	CNH CNH	4,300 800	3,151 2,260	0.06 0.05
Hunan Valin Steel Co. Ltd. 'A' Iflytek Co. Ltd. 'A'	CNH	3,700 1,400	2,513 6,643	0.05 0.13	Xiaomi Corp. 'B'	HKD	28,000	39,247	0.03
Industrial & Commercial Bank of China	CNH	1,400	0,043	0.13	Xinjiang Goldwind Science & Technology	TIND	20,000	37,2	017 7
Ltd. 'A'	CNH	203,700	127,775	2.56	Co. Ltd. 'A'	CNH	7,900	12,560	0.25
Inner Mongolia BaoTou Steel Union Co.	c	24.000	/ 000	0.11	Xinyi Solar Holdings Ltd.	HKD	24,000	26,568	0.53
Ltd. 'A' Inner Mongolia Yili Industrial Group Co.	CNH	24,800	6,882	0.14	XPeng, Inc. ADR 'A' Yantai Jereh Oilfield Services Group Co.	USD	1,365	13,568	0.27
Ltd. 'A'	CNH	3,900	17,474	0.35	Ltd. 'A'	CNH	600	2,420	0.05
JD Health International, Inc.	HKD	3,050	27,882	0.56	Yonyou Network Technology Co. Ltd. 'A'	CNH	1,400	4,891	0.10
JD.com, Inc. ADR	USD	2,785	156,322	3.13	YTO Express Group Co. Ltd. 'A'	CNH	2,100	6,098	0.12
Jiangsu Yanghe Brewery Joint-Stock Co. Ltd. 'A'	CNIII	400	13,919	0.28	Yunnan Baiyao Group Co. Ltd. 'A' Zai Lab Ltd. ADR	CNH	900	7,071 5,373	0.14
Jiangsu Zhongtian Technology Co. Ltd. 'A'	CNH CNH	600 1,800	4,202	0.28	Zhangzhou Pientzehuang Pharmaceutical	USD	175	5,373	0.11
Jiangxi Copper Co. Ltd. 'A'	CNH	6,600	16,627	0.33	Co. Ltd. 'A'	CNH	400	16,677	0.33
KE Holdings, Inc. ADR	USD	516	7,203	0.14	Zhejiang Chint Electrics Co. Ltd. 'A'	CNH	1,200	4,804	0.10
Kingsoft Corp. Ltd.	HKD	7,800	26,083	0.52	Zhejiang Dingli Machinery Co. Ltd. 'A'	CNH	300	2,075	0.04
Kuaishou Technology 'B' Kweichow Moutai Co. Ltd. 'A'	HKD CNH	300 200	2,731 49,922	0.05 1.00	Zhejiang Expressway Co. Ltd. 'H' Zhejiang Huayou Cobalt Co. Ltd. 'A'	HKD CNH	14,000 900	10,780 7,236	0.22 0.14

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Zhejiang NHU Co. Ltd. 'A' Zhejiang Weiming Environment Protection	CNH	1,900	5,149	0.10
Co. Ltd. 'A' ZhongAn Online P&C Insurance Co. Ltd.	CNH	800	2,143	0.04
'H'	HKD	8,300	22,864	0.46
Zhuzhou CRRC Times Electric Co. Ltd.	HKD	5,600	27,803	0.56
Zijin Mining Group Co. Ltd. 'A'	CNH	14,700	21,246	0.42
Zoomlion Heavy Industry Science &				
Technology Co. Ltd. 'A'	CNH	12,100	9,514	0.19
ZTE Corp. 'A'	CNH	6,500	24,295	0.49
ZTO Express Cayman, Inc. ADR	USD	483	12,978	0.26
China total			4,723,561	94.50
Hong Kong		_		
Beijing Enterprises Holdings Ltd.	HKD	1,500	4,805	0.10
Beijing Enterprises Water Group Ltd.	HKD	40,000	10,250	0.21
BOC Hong Kong Holdings Ltd.	HKD	16,000	54,529	1.09
China Merchants Port Holdings Co. Ltd.	HKD	6,000	8,794	0.18
China Overseas Land & Investment Ltd.	HKD	20,500	54,107	1.08
China Resources Beer Holdings Co. Ltd.	HKD	2,000	13,978	0.28
China Resources Land Ltd.	HKD	6,000	27,482	0.55
China State Construction International		10.005	20.227	0.40
Holdings Ltd.	HKD	18,000	20,226	0.40
Kunlun Energy Co. Ltd.	HKD	24,000 _	17,128	0.34
Hong Kong total			211,299	4.23
<i>United States</i> BeiGene Ltd. ADR	USD	227	49,926	1.00
	UJD			
United States total			49,926	1.00
Total investments in Equities		_	4,984,786	99.73

	Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Cash Other assets and liabilities Net asset value attributable to holders of redeemable participating shares	4,984,786 24,207 (10,658) 4,998,335	99.73 0.48 (0.21) 100.00
Analysis of total assets (Unaudited)		% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Other assets Total Assets		99.43 0.57 <b>100.00</b>

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities (31 December 2021: 99.83%)					Finland total		=	906,335	0.45
Australia (31 December 2021: 2.02%) APA Group	AUD	19,218	140,232	0.07			_		0.45
Aristocrat Leisure Ltd.	AUD	19,216	4,036	0.07	France (31 December 2021: 4.71%) Aeroports de Paris	ELID	101	64,672	0.03
BHP Group Ltd.	AUD	15,933	493,030	0.24	Alstom SA	EUR EUR	484 5,208	126,839	0.03
Cochlear Ltd.	AUD	1,058	146,452	0.07	AXA SA	EUR	30,459	846,979	0.42
Coles Group Ltd.	AUD	21,766	246,797	0.12	BNP Paribas SA	EUR	2,408	136,849	0.07
Dexus, REIT GPT Group (The), REIT	AUD AUD	17,291 30,788	90,876 87,691	0.05 0.04	Capgemini SE	EUR	2,615	435,234	0.21
IGO Ltd.	AUD	11,100	101,320	0.04	Carrefour SA Covivio, REIT	EUR EUR	7,921 668	132,216 39,532	0.06 0.02
Macquarie Group Ltd.	AUD	2,006	227,127	0.11	Dassault Systemes SE	EUR	10,842	387,575	0.19
Mirvac Group, REIT	AUD	63,368	91,532	0.05	Edenred	EUR	3,495	189,784	0.09
National Australia Bank Ltd.	AUD	16,770	341,860	0.17	Gecina SA, REIT	EUR	744	75,552	0.04
Newcrest Mining Ltd. Northern Star Resources Ltd.	AUD AUD	14,547 18,976	203,615 140,396	0.10 0.07	Getlink SE	EUR	7,167	114,543	0.06
Orica Ltd.	AUD	7,320	74,759	0.07	Ipsen SA Kering SA	EUR EUR	536 1,210	57,491 614,048	0.03
QBE Insurance Group Ltd.	AUD	23,724	216,068	0.11	Legrand SA	EUR	4,371	349,032	0.17
Ramsay Health Care Ltd.	AUD	2,612	114,605	0.06	L'Oreal SA	EUR	3,549	1,263,567	0.62
REA Group Ltd.	AUD	46	3,456	0.00	LVMH Moet Hennessy Louis Vuitton SE	EUR	2,460	1,785,033	0.88
Santos Ltd. SEEK Ltd.	AUD AUD	34,262 4,816	165,896 68,422	0.08	Orange SA	EUR	12,113	119,981	0.06
Sonic Healthcare Ltd.	AUD	7,306	148,488	0.03	Pernod Ricard SA Remy Cointreau SA	EUR EUR	3,373 377	661,470 63,411	0.33
Stockland, REIT	AUD	38,370	94,455	0.05	Schneider Electric SE	EUR	514	71,709	0.03
Suncorp Group Ltd.	AUD	20,497	167,356	0.08	Thales SA	EUR	1,713	218,104	0.11
Transurban Group	AUD	33,294	293,067	0.14	TotalEnergies SE	EUR	23,853	1,493,060	0.73
Wesfarmers Ltd. WiseTech Global Ltd.	AUD	6,468	201,374	0.10	Unibail-Rodamco-Westfield, REIT, EN	FUD	2/2	10.700	0.01
Woodside Energy Group Ltd.	AUD AUD	1,631 4,993	56,133 120,000	0.03	Amsterdam Unibail-Rodamco-Westfield, REIT, EN	EUR	362	18,788	0.01
woodside Energy droup Etd.	Adb	4,775			Paris	EUR	1,552	80,549	0.04
Australia total		-	4,039,043	1.99	Vivendi SE Worldline SA	EUR EUR	6,088 3,867	57,918 150,761	0.03 0.07
Austria (31 December 2021: 0.00%) Verbund AG	EUR	1,110	93,173	0.05	France total		-	9,554,697	4.70
Austria total		-	93,173	0.05	Germany (31 December 2021: 3.20%)		-		0.10
Belgium (31 December 2021: 0.00%) Elia Group SA	EUR	- 539	76,393	0.04	adidas AG Allianz SE	EUR EUR	1,471 6,352	200,103 1,361,936	0.10 0.67
Belgium total	Luk	-	76,393 76,393	0.04	Bayerische Motoren Werke AG Beiersdorf AG	EUR EUR	5,042 761	448,674 87,065	0.22 0.04
Canada (31 December 2021: 4.76%)		-		0.04	Deutsche Telekom AG HelloFresh SE	EUR EUR	45,384 2,692	902,752 58,983	0.44 0.03
Agnico Eagle Mines Ltd.	CAD	3,395	176,296	0.09	Infineon Technologies AG	EUR	15,173	460,378	0.23
Algonquin Power & Utilities Corp.	CAD	10,897	70,934	0.03	MTU Aero Engines AG	EUR	870	187,744	0.09
Bank of Montreal Bank of Nova Scotia (The)	CAD CAD	5,499 14,557	497,810 712,728	0.24 0.35	Muenchener Rueckversicherungs-Gesellschaft AG in				
BCE, Inc.	CAD	1,164	51,106	0.02	Muenchen	EUR	2,259	732,919	0.36
Brookfield Asset Management Ltd. 'A'	CAD	5,724	163,784	0.08	Puma SE	EUR	1,396	84,476	0.04
Brookfield Corp.	CAD	22,966	721,718	0.36	Rational AG SAP SE	EUR	83	49,163 53,185	0.02
CAE, Inc.	CAD	5,177	100,067	0.05 0.26	Sartorius AG, Preference	EUR EUR	517 347	136,802	0.03
Canadian Imperial Bank of Commerce Canadian National Railway Co.	CAD CAD	12,990 9,602	525,084 1,139,810	0.26	Siemens Healthineers AG	EUR	1,543	76,953	0.04
Canadian Pacific Railway Ltd.	CAD	15,197	1,132,246	0.56	Symrise AG 'A'	EUR	2,162	234,547	0.12
Canadian Tire Corp. Ltd. 'A'	CAD	902	94,198	0.05	Telefonica Deutschland Holding AG	EUR	16,707	41,064	0.02
Enbridge, Inc.	CAD	33,090	1,292,389	0.64	Germany total		_	5,116,744	2 52
Franco-Nevada Corp. Great-West Lifeco, Inc.	CAD	3,135	427,047	0.21			_	5,110,744	2.52
Intact Financial Corp.	CAD CAD	859 1,854	19,843 266,699	0.01 0.13	Hong Kong (31 December 2021: 0.79%)	LIKE	02.200	1.025.270	0.50
Ivanhoe Mines Ltd. 'A'	CAD	9,662	76,301	0.13	AIA Group Ltd. Budweiser Brewing Co. APAC Ltd.	HKD HKD	92,200 15,600	1,025,370 49,069	0.50 0.02
Keyera Corp.	CAD	3,600	78,618	0.04	CLP Holdings Ltd.	HKD	7,000	51,076	0.02
Loblaw Cos. Ltd.	CAD	2,670	235,915	0.12	Hang Seng Bank Ltd.	HKD	12,500	207,881	0.10
Northland Power, Inc. Pembina Pipeline Corp.	CAD	3,845	105,365	0.05	Henderson Land Development Co. Ltd.	HKD	15,000	52,371	0.03
Rogers Communications, Inc. 'B'	CAD CAD	9,041 5,230	306,671 244,603	0.15 0.12	Hong Kong Exchanges & Clearing Ltd. MTR Corp. Ltd.	HKD	19,100	825,184 108,607	0.41 0.05
Royal Bank of Canada	CAD	15,682	1,473,352	0.73	Sino Land Co. Ltd.	HKD HKD	20,500 42,000	52,520	0.03
Sun Life Financial, Inc.	CAD	8,706	403,832	0.20	Sun Hung Kai Properties Ltd.	HKD	22,000	301,040	0.15
TC Energy Corp.	CAD	16,536	658,780	0.32	Swire Properties Ltd.	HKD	10,400	26,437	0.01
TELUS Corp.	CAD	6,300	121,495	0.06	Techtronic Industries Co. Ltd.	HKD	3,000	33,479	0.02
Toronto-Dominion Bank (The) Wheaton Precious Metals Corp.	CAD CAD	17,218 7,358	1,114,065 287,271	0.55 0.14	Hong Kong total		_	2 722 024	1 24
WSP Global, Inc.	CAD	2,021	234,310	0.14	Ireland (31 December 2021: 1.36%)		-	2,733,034	1.34
Canada total		-	12,732,337	6.27	Accenture plc 'A'  AerCap Holdings NV	USD USD	5,946 2,202	1,586,631 128,421	0.78 0.06
Denmark (31 December 2021: 0.46%)		-			Aptiv plc	USD	3,451	321,391	0.16
Chr Hansen Holding A/S	DKK	1,718	123,207	0.06	DCC plc	GBP	1,608	78,918	0.04
Coloplast A/S 'B'	DKK	696	81,108	0.04	James Hardie Industries plc CDI	AUD	7,258	129,941	0.06
Danske Bank A/S Novozymes A/S 'B'	DKK DKK	6,748 3,331	132,968 168,227	0.06 0.08	Ireland total		-	2 245 202	110
Orsted A/S	DKK	3,103	281,137	0.08			_	2,245,302	1.10
Tryg A/S	DKK	5,787	137,328	0.07	Israel (31 December 2021: 0.04%)			70 242	00:
		-			Elbit Systems Ltd. ICL Group Ltd.	ILS ILS	433 11,530	70,242 83,162	0.04
Denmark total			923,975	0.45	SolarEdge Technologies, Inc.	USD	74	20,962	0.04
Finland (31 December 2021: 0.52%)		-				335		-,- ==	
Neste OYJ	EUR	6,934	318,361	0.16 0.20	Israel total			174,366	0.09
Sampo OYJ 'A' Stora Enso OYJ 'R'	EUR EUR	7,818 8,257	407,342 115,882	0.20	Italy (31 December 2021: 0.25%)		_		
Wartsila OYJ Abp	EUR	7,711	64,750	0.03	Amplifon SpA	EUR	1,770	52,553	0.03
					Intesa Sanpaolo SpA	EUR	269,230	597,084	0.29

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Snam SpA Terna - Rete Elettrica Nazionale	EUR EUR	32,842 22,917	158,674 168,761	0.08	Netherlands total		_	3,556,426	1.75
Italy total		_	977,072	0.48	New Zealand (31 December 2021: 0.10%) Fisher & Paykel Healthcare Corp. Ltd.	NZD	8,234	117,692	0.06
Japan (31 December 2021: 6.36%)		_			Mercury NZ Ltd.	NZD	11,240	39,525	0.02
Advantest Corp. Aeon Co. Ltd.	JPY JPY	2,900 10,600	186,381 223,576	0.09 0.11	Spark New Zealand Ltd. Xero Ltd.	NZD AUD	26,666 854	91,070 40,696	0.04
ANA Holdings, Inc.	JPY	2,600	55,174	0.03		AUD	034		
Asahi Group Holdings Ltd.	JPY	1,000	31,218	0.02	New Zealand total			288,983	0.14
Astellas Pharma, Inc. Chugai Pharmaceutical Co. Ltd.	JPY JPY	30,000 9,600	456,213 245,048	0.22 0.12	Norway (31 December 2021: 0.06%)	NOV		150 455	0.00
Daifuku Co. Ltd.	JPY	1,600	74,940	0.04	Aker BP ASA Equinor ASA	NOK NOK	5,133 11,860	158,455 423,546	0.08 0.21
Daito Trust Construction Co. Ltd.  Daiwa House Industry Co. Ltd.	JPY JPY	1,000 8,300	102,619 191,168	0.05 0.09	Orkla ASA	NOK	993	7,151	0.00
Denso Corp.	JPY	7,100	351,704	0.09	Norway total		_	E90 1E2	0.29
Fujitsu Ltd.	JPY	2,900	387,158	0.19	•		_	589,152	0.29
Hulic Co. Ltd. Inpex Corp.	JPY JPY	2,100 9,900	16,552 104,744	0.01 0.05	Portugal (31 December 2021: 0.06%) EDP - Energias de Portugal SA	EUR	26,631	132,333	0.06
ITOCHU Corp.	JPY	19,400	609,590	0.30		Luit	-		
JSR Corp.	JPY	2,900	56,881	0.03	Portugal total			132,333	0.06
Kansai Electric Power Co., Inc. (The) Kintetsu Group Holdings Co. Ltd.	JPY JPY	11,600 2,800	112,444 92,417	0.06 0.05	Singapore (31 December 2021: 0.11%)	665		(0.303	0.03
Kirin Holdings Co. Ltd.	JPY	13,400	204,232	0.10	Genting Singapore Ltd. Keppel Corp. Ltd.	SGD SGD	97,300 9,700	69,282 52,507	0.03
MINEBEA MITSUMI, Inc. Mitsubishi Corp.	JPY	6,000	89,628	0.04	Singapore Technologies Engineering Ltd.	SGD	19,100	47,707	0.02
Mitsubishi Estate Co. Ltd.	JPY JPY	3,000 2,400	97,381 31,122	0.05 0.02	Singapore Telecommunications Ltd.	SGD	59,200	113,439	0.06
Mitsubishi UFJ Financial Group, Inc.	JPY	38,100	256,705	0.13	Singapore total		_	282,935	0.14
Mitsui & Co. Ltd.	JPY	22,800	665,796	0.33	Spain (31 December 2021: 0.52%)		_		
Mitsui Fudosan Co. Ltd. Murata Manufacturing Co. Ltd.	JPY JPY	4,500 700	82,432 34,951	0.04	Acciona SA	EUR	403	73,934	0.04
NEC Corp.	JPY	2,700	94,846	0.05	ACS Actividades de Construccion y				0.05
Nidec Corp.	JPY	7,300	378,375	0.19	Servicios SA EDP Renovaveis SA	EUR EUR	3,527 4,693	100,767 103,077	0.05 0.05
Nintendo Co. Ltd. Nippon Telegraph & Telephone Corp.	JPY JPY	7,200 19,500	301,871 555,982	0.15 0.27	Enagas SA	EUR	4,054	67,171	0.03
Nitto Denko Corp.	JPY	800	46,383	0.02	Ferrovial SA	EUR	7,948	207,567	0.10
Nomura Holdings, Inc.	JPY	47,300	175,155	0.09	Iberdrola SA Red Electrica Corp. SA	EUR EUR	491 6,609	5,728 114,689	0.00
Nomura Research Institute Ltd. NTT Data Corp.	JPY JPY	5,300 9,100	125,124 133,246	0.06 0.07	•	Lui	0,009		
Olympus Corp.	JPY	17,800	317,296	0.16	Spain total			672,933	0.33
Ono Pharmaceutical Co. Ltd.	JPY	5,900	137,858	0.07	Sweden (31 December 2021: 0.48%)		_		
ORIX Corp. Osaka Gas Co. Ltd.	JPY JPY	6,600 1,700	105,969 27,443	0.05 0.01	Alfa Laval AB Atlas Copco AB 'A'	SEK	4,718	136,339 790,406	0.07 0.39
Rakuten Group, Inc.	JPY	14,200	64,142	0.03	Electrolux AB 'B'	SEK SEK	66,902 3,181	42,979	0.39
Rohm Co. Ltd.	JPY	1,200	86,672	0.04	Epiroc AB 'A'	SEK	16,106	293,462	0.15
Secom Co. Ltd. SG Holdings Co. Ltd.	JPY JPY	2,900 4,900	165,786 67,960	0.08	Holmen AB 'B' Lifco AB 'B'	SEK	1,527	60,658 63,446	0.03
Shin-Etsu Chemical Co. Ltd.	JPY	3,700	454,981	0.22	Nibe Industrier AB 'B'	SEK SEK	3,796 24,684	230,032	0.03
Shiseido Co. Ltd.	JPY	1,100	53,947	0.03	Svenska Cellulosa AB SCA 'B'	SEK	9,868	124,966	0.06
SoftBank Group Corp. Sompo Holdings, Inc.	JPY JPY	5,400 3,700	230,987 164,326	0.11	Tele2 AB 'B' Telia Co. AB	SEK SEK	582	4,753 35,453	0.00
Sony Group Corp.	JPY	12,800	973,497	0.48	Tella Co. Ab	SEK	13,856		0.02
Sumitomo Corp.	JPY	18,400	306,237	0.15	Sweden total			1,782,494	0.88
Sysmex Corp. T&D Holdings, Inc.	JPY JPY	1,500 8,600	90,924 123,970	0.04	Switzerland (31 December 2021: 4.63%)		_		
Taisei Corp.	JPY	3,000	96,631	0.05	Chubb Ltd.	USD	6,665	1,470,299	0.72
Tokio Marine Holdings, Inc.	JPY	29,900	640,739	0.32	Cie Financiere Richemont SA Clariant AG	CHF CHF	406 3,043	52,615 48,184	0.03 0.02
Tokyo Electron Ltd. Toyota Motor Corp.	JPY JPY	2,300 59,500	677,737 817,339	0.33 0.40	Geberit AG	CHF	584	274,894	0.14
Toyota Tsusho Corp.	JPY	3,500	129,581	0.06	Givaudan SA	CHF	151	462,368	0.23
Unicharm Corp. Yakult Honsha Co. Ltd.	JPY	6,000	230,460 136,239	0.11 0.07	Logitech International SA Nestle SA	CHF CHF	1,479 16,334	91,215 1,891,510	0.05 0.93
Yakuit Holislia Co. Etu.	JPY	2,100	130,239	0.07	Novartis AG	CHF	17,682	1,597,534	0.79
Japan total			12,671,777	6.24	Roche Holding AG	CHF	5,134	1,612,005	0.79
Luxembourg (31 December 2021: 0.04%)		-			Schindler Holding AG SIG Group AG	CHF CHF	1,027 4,981	193,034 108,751	0.10 0.05
Tenaris SA	EUR	7,690	133,653	0.07	Sika AG	CHF	2,387	571,982	0.28
Luxembourg total		_	133,653	0.07	Sonova Holding AG	CHF	852	201,949	0.10
-		_		0.07	STMicroelectronics NV Swiss Life Holding AG	EUR CHF	11,137 318	392,177 163,881	0.19 0.08
Macau (31 December 2021: 0.00%) Sands China Ltd.	HKD	28,400	94,243	0.05	Swiss Prime Site AG	CHF	89	7,710	0.00
	1110	-			Swiss Re AG	CHF	4,922	460,068	0.23
Macau total			94,243	0.05	Swisscom AG	CHF	230 _	125,938	0.06
Netherlands (31 December 2021: 1.52%)	FUE	-	12.275	0.01	Switzerland total			9,726,114	4.79
Adyen NV Akzo Nobel NV	EUR EUR	9 2,951	12,375 197,030	0.01 0.10	United Kingdom (31 December 2021: 2.77%	)	_		
ASML Holding NV	EUR	565	303,790	0.15	3i Group plc	GBP	11,733	189,334	0.09
Heineken NV	EUR	4,245	398,138	0.20	AstraZeneca plc Aviva plc	GBP GBP	12,830 45,652	1,731,297 243,163	0.85 0.12
IMCD NV ING Groep NV	EUR EUR	928 61,557	131,873 748,154	0.06 0.37	Barclays plc	GBP	45,652 142,857	272,405	0.12
Koninklijke Ahold Delhaize NV	EUR	9,793	280,520	0.14	CNH Industrial NV	EUR	16,667	266,195	0.13
Koninklijke DSM NV	EUR	1,035	126,256	0.06	Croda International plc Ferguson plc	GBP	2,274	180,646 432,841	0.09 0.21
Koninklijke Philips NV		1/1 257	214,577	0.10	i ci gusoti pic	USD	3,409	426,041	
	EUR	14,357 2 983			GSK plc	GRP	1.416	24,487	0.01
NXP Semiconductors NV QIAGEN NV	EUR USD EUR	2,983 3,245	471,404 162,806	0.23 0.08	Halma plc	GBP GBP	1,416 6,101	144,870	0.07
NXP Semiconductors NV	USD	2,983	471,404	0.23					

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
National Grid plc	GBP	16,409	196,871	0.10	International Flavors & Fragrances, Inc.	USD	3,640	381,618	0.19
Pentair plc RELX plc	USD GBP	2,679 23,266	120,501 640,335	0.06 0.32	Intuit, Inc. Johnson & Johnson	USD USD	2,976 15,885	1,158,319 2,806,085	0.57 1.38
Rentokil Initial plc	GBP	40,865	249,715	0.12	Keurig Dr Pepper, Inc.	USD	11,559	412,194	0.20
Sage Group plc (The)	GBP	15,567	139,618	0.07	Kimberly-Clark Corp.	USD	3,326	451,504	0.22
Segro plc, REIT	GBP	4,491	41,251	0.02	KKR & Co., Inc.	USD	2,180	101,196	0.05 0.24
Spirax-Sarco Engineering plc Unilever plc	GBP EUR	1,199 361	153,098 18,135	0.08	Kroger Co. (The) L3Harris Technologies, Inc.	USD USD	11,117 3,127	495,596 651,073	0.24
United Utilities Group plc	GBP	11,105	132,433	0.07	Lam Research Corp.	USD	2,198	923,819	0.45
United Kingdom total		-	5,344,656	2.63	Lincoln National Corp. Mastercard, Inc. 'A'	USD USD	2,634 1,507	80,916 524,029	0.04 0.26
United States (31 December 2021: 65.02%)		=			McCormick & Co., Inc. McDonald's Corp.	USD USD	4,069 5,814	337,279 1,532,163	0.17 0.75
3M Co.	USD	7,949	953,244	0.47	Merck & Co., Inc.	USD	19,247	2,135,455	1.05
Abbott Laboratories AbbVie, Inc.	USD USD	8,579 13,046	941,888 2,108,364	0.46 1.04	Meta Platforms, Inc. 'A'	USD	9,878	1,188,719	0.59
Adobe, Inc.	USD	3,794	1,276,795	0.63	MetLife, Inc.	USD	11,079	801,787	0.39
Advanced Micro Devices, Inc.	USD	12,995	841,686	0.41	Mettler-Toledo International, Inc. Microsoft Corp.	USD USD	368 32,465	531,926 7,785,756	0.26 3.83
Agilent Technologies, Inc.	USD	4,617	690,934 245.843	0.34	Mondelez International, Inc. 'A'	USD	5,608	373,773	0.18
Allstate Corp. (The) Alphabet, Inc. 'A'	USD USD	1,813 56,887	5,019,140	0.12 2.47	Monster Beverage Corp.	USD	4,700	477,191	0.23
Amazon.com, Inc.	USD	31,987	2,686,908	1.32	Netflix, Inc. Newell Brands, Inc.	USD USD	308	90,823 80,154	0.04
American Express Co.	USD	8,735	1,290,596	0.64	NextEra Energy, Inc.	USD	6,128 20,550	1,717,980	0.04
American Tower Corp., REIT AmerisourceBergen Corp. 'A'	USD USD	3,670 2,270	777,526 376,162	0.38	NIKE, Inc. 'B'	USD	12,362	1,446,478	0.71
Apple. Inc.	USD	72,328	9,397,577	4.63	Nucor Corp.	USD	672	88,576	0.04
Applied Materials, Inc.	USD	11,901	1,158,919	0.57	NVIDIA Corp. Oracle Corp.	USD USD	14,046 409	2,052,682 33,432	1.01 0.02
AT&T, Inc.	USD	49,839	917,536	0.45	PayPal Holdings, Inc.	USD	1,621	115,448	0.02
Autodesk, Inc. AvalonBay Communities, Inc., REIT	USD USD	2,835 2,245	529,776 362,612	0.26 0.18	PepsiCo, Inc.	USD	11,167	2,017,430	0.99
Avery Dennison Corp.	USD	1,180	213,580	0.10	Pfizer, Inc.	USD	6,462	331,113	0.16
Ball Corp.	USD	5,119	261,786	0.13	PG&E Corp. PNC Financial Services Group, Inc. (The)	USD USD	24,337 6,703	395,720 1,058,672	0.19 0.52
Bank of America Corp.	USD	34,650	1,147,608	0.57	PPG Industries, Inc.	USD	3,385	425,630	0.32
Bank of New York Mellon Corp. (The) Becton Dickinson & Co.	USD USD	12,462 3,020	567,270 767,986	0.28 0.38	Procter & Gamble Co. (The)	USD	3,938	596,843	0.29
Berkshire Hathaway, Inc. 'B'	USD	2,634	813,643	0.40	Prologis, Inc., REIT	USD	11,168	1,258,969	0.62
Booking Holdings, Inc.	USD	222	447,392	0.22	QUALCOMM, Inc. Realty Income Corp., REIT	USD USD	11,292 6,466	1,241,442 410,138	0.61 0.20
Boston Properties, Inc., REIT	USD	2,195	148,338	0.07 0.46	Regeneron Pharmaceuticals, Inc.	USD	1,251	902,584	0.44
Boston Scientific Corp. Bristol-Myers Squibb Co.	USD USD	20,100 22,176	930,027 1,595,563	0.46	Rockwell Automation, Inc.	USD	1,523	392,279	0.19
Broadcom, Inc.	USD	32	17,892	0.01	Ross Stores, Inc. S&P Global, Inc.	USD USD	5,719	663,804 890,271	0.33 0.44
Brown-Forman Corp. 'B'	USD	5,078	333,523	0.16	Salesforce, Inc.	USD	2,658 1,072	142,136	0.44
Capital One Financial Corp. Cardinal Health, Inc.	USD USD	6,275 4,451	583,324 342.148	0.29 0.17	Schlumberger Ltd.	USD	23,115	1,235,728	0.61
Chevron Corp.	USD	3,046	546,727	0.27	Sherwin-Williams Co. (The)	USD	4,024	955,016	0.47
Chipotle Mexican Grill, Inc. 'A'	USD	249	345,485	0.17	Snap, Inc. 'A' Starbucks Corp.	USD USD	11,022 15,018	98,647 1,489,786	0.05 0.73
Church & Dwight Co., Inc. Cigna Corp.	USD	3,982	320,989 1,494,675	0.16 0.74	Teradyne, Inc.	USD	1,100	96,085	0.05
Cisco Systems, Inc.	USD USD	4,511 32,967	1,570,548	0.74	Tesla, Inc.	USD	13,119	1,615,998	0.80
Citigroup, Inc.	USD	21,241	960,730	0.47	Texas Instruments, Inc. Thermo Fisher Scientific, Inc.	USD USD	9,681 46	1,599,495 25,332	0.79 0.01
Clorox Co. (The)	USD	2,006	281,502	0.14	TJX Cos., Inc. (The)	USD	18,073	1,438,611	0.71
Coca-Cola Co. (The) Comcast Corp. 'A'	USD USD	3,354 3,121	213,348 109,141	0.11 0.05	Travelers Cos., Inc. (The)	USD	3,003	563,032	0.28
ConocoPhillips	USD	13,304	1,569,872	0.77	Uber Technologies, Inc.	USD	23,899	591,022	0.29
Consolidated Edison, Inc.	USD	5,761	549,081	0.27	UGI Corp. Union Pacific Corp.	USD USD	3,410 7,499	126,409 1,552,818	0.06 0.76
Costco Wholesale Corp. Crown Castle, Inc., REIT	USD USD	227 2,776	103,625 376,537	0.05 0.19	United Parcel Service, Inc. 'B'	USD	6,407	1,113,793	0.55
CSX Corp.	USD	6,390	197,962	0.10	United Rentals, Inc.	USD	149	52,958	0.03
CVS Health Corp.	USD	15,847	1,476,782	0.73	UnitedHealth Group, Inc. Verizon Communications, Inc.	USD USD	2,249 32,819	1,192,375 1,293,069	0.59 0.64
Delta Air Lines, Inc.	USD	2,597	85,337	0.04	VF Corp.	USD	4,440	122,588	0.04
Devon Energy Corp. Digital Realty Trust, Inc., REIT	USD USD	1,880 1,351	115,639 135,465	0.06 0.07	Visa, Inc. 'A'	USD	7,294	1,515,401	0.75
DuPont de Nemours, Inc.	USD	7,628	523,510	0.26	W R Berkley Corp.	USD	3,014	218,726	0.11
eBay, Inc.	USD	8,998	373,147	0.18	Walgreens Boots Alliance, Inc. Walmart, Inc.	USD USD	12,020 8,545	449,067 1,211,596	0.22 0.60
Ecolab, Inc. Edison International	USD	4,152	604,365 394,126	0.30 0.19	Walt Disney Co. (The)	USD	12,979	1,127,615	0.56
Edwards Lifesciences Corp.	USD USD	6,195 9,057	675,743	0.19	Waste Management, Inc.	USD	6,274	984,265	0.48
Eli Lilly & Co.	USD	6,181	2,261,257	1.11	Welltower, Inc., REIT Westinghouse Air Brake Technologies	USD	932	61,093	0.03
Essential Utilities, Inc.	USD	3,895	185,908	0.09	Corp.	USD	2,815	280,965	0.14
Estee Lauder Cos., Inc. (The) 'A' Eversource Energy	USD USD	3,781 5,603	938,104 469,756	0.46 0.23	Weyerhaeuser Co., REIT	USD	12,115	375,565	0.18
Expeditors International of Washington,	asb	3,003	107,750	0.23	Williams Cos., Inc. (The) Xcel Energy, Inc.	USD	19,911	655,072 440,852	0.32 0.22
Inc.	USD	2,666	277,051	0.14	Xylem, Inc.	USD USD	6,288 2,896	320,211	0.16
Exxon Mobil Corp. FedEx Corp.	USD	9,592	1,057,998 619,710	0.52 0.31			_,-,-		
FMC Corp.	USD USD	3,578 1,837	229,258	0.31	United States total			127,876,210	62.97
Fortive Corp.	USD	5,537	355,752	0.18	Uruguay (31 December 2021: 0.00%)				
General Mills, Inc.	USD	8,335	698,890	0.34	MercadoLibre, Inc.	USD	99	83,778	0.04
Gilead Sciences, Inc. Goldman Sachs Group, Inc. (The)	USD USD	3,731 4,142	320,306 1,422,280	0.16 0.70	Uruguay total			83,778	0.04
Halliburton Co.	USD	14,825	583,364	0.29					
Hasbro, Inc.	USD	2,126	129,707	0.06	Total investments in Equities			202,808,158	99.86
Hershey Co. (The)	USD	314	72,713	0.04				<del></del> <del></del>	
Hess Corp. Home Depot, Inc. (The)	USD USD	4,554 3,903	645,848 1,232,802	0.32 0.61					
Illinois Tool Works, Inc.	USD	5,060	1,114,718	0.55					
Intel Corp.	USD	25,370	670,529	0.33					
International Business Machines Corp.	USD	10,747	1,514,145	0.75					

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class EUR Hedged (	acc)*						
AUD	52,331	USD	35,219	03/01/2023	RBC	269	-
CAD	160,059	USD	117,793	03/01/2023	HSBC	336	-
DKK	14,342	USD	2,052	03/01/2023	State Street	7	-
EUR	9,088	CAD	12,579		Goldman Sachs	416	-
EUR	12,334	CHF	12,151	03/01/2023		30	-
EUR	18,180	USD	18,795	03/01/2023	Bank of America Merrill Lynch	608	-
EUR	1,608,419	USD	1,714,972	02/02/2023		5,242	0.01
EUR	76,391	USD	80,424	03/01/2023		1,105	-
EUR	38,588	USD	40,417	03/01/2023	HSBC	766	-
EUR	13,249	USD	13,989	03/01/2023		150	-
EUR	17,526	USD	18,690	02/02/2023		54	-
EUR	1,568,342	USD	1,629,548		Standard Chartered	44,264	0.02
JPY	15,756,518	USD	117,932		State Street	1,485	-
SEK	105,128	USD	10,032		Bank of America Merrill Lynch	57	-
USD	16,909	CAD	22,808		Bank of America Merrill Lynch	76	-
USD	92,965	CAD	124,671		Goldman Sachs	954	-
USD	34,992	GBP	29,042	03/01/2023	HSBC	57	-
USD	35,007	GBP	29,042		State Street	42	-
USD	18,076	HKD	140,841	02/02/2023	Barclays	20	
Total unrealised ga	nin on Forward Currency Contra	acts (31 December 2021: 0.00%	b)			55,938	0.03
Class EUR Hedged (	'acc\*						
CHF	71,783	USD	77,597	02/01/2022	Morgan Stanley	(11)	
GBP	29,042	USD	77,397 34,979		State Street	(44)	-
HKD	140,841	USD	18,066	03/01/2023		(21)	_
USD	35.232	AUD	52,331	03/01/2023		(256)	
USD	35,260	AUD	52,331	02/02/2023		(274)	_
USD	117,808	CAD	160,059	02/02/2023		(338)	_
USD	77,839	CHF	71,783		Morgan Stanley	(12)	
USD	63,035	CHF	59,632		State Street	(1,417)	
USD	2,003	DKK	14,342		Standard Chartered	(55)	
USD	2,056	DKK	14,342		State Street	(7)	_
USD	12,123	EUR	11.389		Bank of America Merrill Lynch	(32)	_
USD	15,139	EUR	14,201		Bank of America Merrill Lynch	(49)	_
USD	1,711,358	EUR	1,608,419	03/01/2023		(5,227)	(0.01)
USD	20,067	EUR	18,859		BNP Paribas	(103)	(0.01)
USD	15,373	EUR	14,467	03/01/2023		(67)	_
USD	22,244	EUR	21,119	03/01/2023		(295)	_
USD	15,455	EUR	14,855	03/01/2023		(399)	-
USD	20,267	EUR	19,505	03/01/2023		(550)	-
USD	31,329	EUR	29,454		Morgan Stanley	(106)	-
USD	17,837	EUR	16,966		Morgan Stanley	(269)	-
USD	18,022	HKD	140,841	03/01/2023		(23)	-
USD	114,393	JPY	15,756,518	04/01/2023		(5,024)	-
USD	118,378	JPY	15,756,518		State Street	(1,524)	-
USD	10,050	SEK	105,128		Bank of America Merrill Lynch	(57)	-
USD	10,026	SEK	105,128	03/01/2023	•	(64)	
Total unrealised los	ss on Forward Currency Contra	cts (31 December 2021: (0.00)	%)			(16,224)	(0.01)

 $<sup>\</sup>ensuremath{^{\star}}\xspace \text{Contracts}$  entered into for share class currency hedging purpose.

#### Financial Futures Contracts

Security Description	No. of Contracts	Currency	Underlying Exposure USD	Counterparty	Fair Value USD	% of Net Assets
United States (31 December 2021: (0.00)%) S&P 500 Micro E-Mini Index, 17/03/2023	8	USD	158,768	Citibank NA	(4,328)	<u>-</u>
United States total					(4,328)	-
Total unrealised loss on Financial Futures Contracts (31 Dece	mber 2021: (0.00)%)				(4,328)	

Schedule of Investments (continued)

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash and margin cash			202,864,096 (20,552) 221,798	99.89 (0.01) 0.11
Undertaking for collective investment schemes (31 December 2021: 0.00%) <sup>1</sup> JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>2</sup> Total Cash equivalents Other assets and liabilities Net asset value attributable to holders of redeemable participating shares	<b>Currency</b> USD	Quantity/ Nominal Value 196	196 196 16,403 203,081,941	0.01
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Collective investment schemes Financial derivative instruments dealt in on a regulated market Other assets Total Assets				99.47 0.34 0.03 0.16 100.00

 $<sup>^{1}\</sup>mbox{Prior}$  year percentage of net asset value rounds to 0.00%.  $^{2}\mbox{A}$  related party to the Fund.

## JPMorgan ETFs (Ireland) ICAV - China A Research Enhanced Index Equity (ESG) UCITS ETF

Schedule of Investments

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities					East Money Information Co. Ltd. 'A'	CNH	20,500	57,481	0.67
China Advanced Micro-Fabrication Equipment,					ENN Natural Gas Co. Ltd. 'A' Eve Energy Co. Ltd. 'A'	CNH CNH	7,200 3,600	16,754 45,736	0.20 0.54
Inc. China 'A'	CNH	1,011	14,321	0.17	Fangda Special Steel Technology Co. Ltd. 'A'	CNIII	7.400	6,439	0.08
Agricultural Bank of China Ltd. 'A'	CNH	153,600	64,603	0.76	Flat Glass Group Co. Ltd. 'A'	CNH CNH	7,400 7,200	34,664	0.08
Aier Eye Hospital Group Co. Ltd. 'A' Aluminum Corp. of China Ltd. 'A'	CNH CNH	17,018 27,400	76,422 17,702	0.90 0.21	Focus Media Information Technology Co.	CIVIT	7,200	3.,00.	0.11
Amoy Diagnostics Co. Ltd. 'A'	CNH	2,160	8,257	0.10	Ltd. 'A'	CNH	22,300	21,530	0.25
Angel Yeast Co. Ltd. 'A'	CNH	5,000	32,679	0.38	Foshan Haitian Flavouring & Food Co. Ltd. 'A'	CNIII	9 200	95,375	1.12
Anhui Conch Cement Co. Ltd. 'A'	CNH	8,700	34,429	0.40	Fuyao Glass Industry Group Co. Ltd. 'A'	CNH CNH	8,290 7,700	39,029	0.46
Anhui Honglu Steel Construction Group	CNIII	2.720	11 557	0.14	Ganfeng Lithium Co. Ltd. 'A'	CNH	3,920	39,382	0.46
Co. Ltd. 'A' Anjoy Foods Group Co. Ltd. 'A'	CNH CNH	2,730 1,300	11,557 30,416	0.14 0.36	GD Power Development Co. Ltd. 'A'	CNH	31,800	19,626	0.23
Asymchem Laboratories Tianjin Co. Ltd.	CIVII	1,500	50, 110	0.50	GF Securities Co. Ltd. 'A'	CNH	15,200	34,030	0.40
'A'	CNH	1,660	35,509	0.42	Gigadevice Semiconductor Beijing, Inc. 'A'	CNH	500	7,405	0.09 0.14
Autobio Diagnostics Co. Ltd. 'A'	CNH	2,600	23,242	0.27	GoerTek, Inc. 'A' Great Wall Motor Co. Ltd. 'A'	CNH CNH	5,000 6,800	12,162 29,111	0.14
Avary Holding Shenzhen Co. Ltd. 'A' Bank of Beijing Co. Ltd. 'A'	CNH CNH	3,000 36,100	11,898 22,488	0.14 0.26	Gree Electric Appliances, Inc. of Zhuhai 'A'	CNH	7,900	36,903	0.43
Bank of Chengdu Co. Ltd. 'A'	CNH	13,400	29,632	0.35	GRG Banking Equipment Co. Ltd. 'A'	CNH	15,400	22,125	0.26
Bank of China Ltd. 'A'	CNH	75,500	34,483	0.40	Guangdong Haid Group Co. Ltd. 'A'	CNH	2,600	23,197	0.27
Bank of Communications Co. Ltd. 'A'	CNH	39,600	27,129	0.32	Guangzhou Automobile Group Co. Ltd. 'A' Guangzhou Kingmed Diagnostics Group	CNH	18,900	30,130	0.35
Bank of Hangzhou Co. Ltd. 'A'	CNH	8,900	16,825	0.20	Co. Ltd. 'A'	CNH	3,000	33,907	0.40
Bank of Jiangsu Co. Ltd. 'A' Bank of Nanjing Co. Ltd. 'A'	CNH CNH	22,300 28,900	23,496 43,524	0.28 0.51	Guangzhou Tinci Materials Technology Co.		-,		
Bank of Ningbo Co. Ltd. 'A'	CNH	13,200	61,909	0.73	Ltd. 'A'	CNH	6,200	39,303	0.46
Baoshan Iron & Steel Co. Ltd. 'A'	CNH	62,800	50,739	0.59	Guotai Junan Securities Co. Ltd. 'A' Haier Smart Home Co. Ltd. 'A'	CNH CNH	7,300 16,400	14,339 57,978	0.17 0.68
Beijing Easpring Material Technology Co.					Haitong Securities Co. Ltd. 'A'	CNH	23,200	29,139	0.34
Ltd. 'A'	CNH	2,300	18,749	0.22	Hangzhou First Applied Material Co. Ltd.	CIVIT	23,200	27,137	0.51
Beijing Kingsoft Office Software, Inc. 'A' Beijing Wantai Biological Pharmacy	CNH	1,096	41,897	0.49	'A'	CNH	4,000	38,411	0.45
Enterprise Co. Ltd. 'A'	CNH	600	10,987	0.13	Hangzhou Robam Appliances Co. Ltd. 'A'	CNH	7,200	28,888	0.34
BOE Technology Group Co. Ltd. 'A'	CNH	101,600	49,634	0.58	Hangzhou Tigermed Consulting Co. Ltd. 'A'	CNH	2,200	33,323	0.39
BYD Co. Ltd. 'A'	CNH	3,000	111,422	1.31	Han's Laser Technology Industry Group	CIVIT	2,200	33,323	0.57
By-health Co. Ltd. 'A' Cangzhou Mingzhu Plastic Co. Ltd. 'A'	CNH CNH	2,600	8,575 40,777	0.10 0.48	Co. Ltd. 'A'	CNH	5,500	20,390	0.24
Chacha Food Co. Ltd. 'A'	CNH	61,200 2,000	14,453	0.48	Hefei Meiya Optoelectronic Technology, Inc. 'A'	CNIII	4.710	16,270	0.19
Changzhou Xingyu Automotive Lighting	CIVII	2,000	1.,.55	0.17	Henan Shuanghui Investment &	CNH	4,710	10,270	0.19
Systems Co. Ltd. 'A'	CNH	1,600	29,455	0.35	Development Co. Ltd. 'A'	CNH	4,400	16,490	0.19
Chengxin Lithium Group Co. Ltd. 'A'	CNH	2,700	14,630	0.17	Hengli Petrochemical Co. Ltd. 'A'	CNH	14,900	33,444	0.39
China Construction Bank Corp. 'A' China Eastern Airlines Corp. Ltd. 'A'	CNH CNH	47,800 21,800	38,896 17,424	0.46 0.20	Hengyi Petrochemical Co. Ltd. 'A'	CNH	7,000	7,112	0.08
China Galaxy Securities Co. Ltd. 'A'	CNH	9,600	12,890	0.15	Hongfa Technology Co. Ltd. 'A' Hoshine Silicon Industry Co. Ltd. 'A'	CNH CNH	5,700 1,000	27,524 11,988	0.32 0.14
China International Capital Corp. Ltd. 'A'	CNH	5,300	29,208	0.34	Huafon Chemical Co. Ltd. 'A'	CNH	20,300	19,951	0.23
China Jushi Co. Ltd. 'A'	CNH	12,300	24,373	0.29	Hualan Biological Engineering, Inc. 'A'	CNH	10,900	35,651	0.42
China Life Insurance Co. Ltd. 'A'	CNH	9,600	51,505	0.60	Huatai Securities Co. Ltd. 'A'	CNH	23,200	42,719	0.50
China Longyuan Power Group Corp. Ltd. 'A'	CNH	4,200	11,058	0.13	Huayu Automotive Systems Co. Ltd. 'A'	CNH	11,700	29,306	0.34
China Merchants Bank Co. Ltd. 'A'	CNH	37,400	201,410	2.36	Hubei Xingfa Chemicals Group Co. Ltd. 'A' Hunan Valin Steel Co. Ltd. 'A'	CNH CNH	3,100 17,000	12,994 11,548	0.15 0.14
China Merchants Securities Co. Ltd. 'A'	CNH	11,900	22,875	0.27	Hundsun Technologies, Inc. 'A'	CNH	3,480	20,350	0.14
China Merchants Shekou Industrial Zone			10.072	0.21	Iflytek Co. Ltd. 'A'	CNH	1,400	6,643	0.08
Holdings Co. Ltd. 'A' China National Nuclear Power Co. Ltd. 'A'	CNH	9,900	18,072 37,116	0.21 0.43	Imeik Technology Development Co. Ltd.				
China Northern Rare Earth Group	CNH	42,800	37,110	0.43	'A'	CNH	300	24,557	0.29
High-Tech Co. Ltd. 'A'	CNH	4,800	17,379	0.20	Industrial & Commercial Bank of China Ltd. 'A'	CNH	134,900	84,619	0.99
China Oilfield Services Ltd. 'A'	CNH	18,500	44,333	0.52	Industrial Bank Co. Ltd. 'A'	CNH	40,600	103,219	1.21
China Pacific Insurance Group Co. Ltd. 'A'	CNH	15,100	53,514	0.63	Industrial Securities Co. Ltd. 'A'	CNH	11,400	9,458	0.11
China Petroleum & Chemical Corp. 'A' China Railway Group Ltd. 'A'	CNH CNH	116,600 58,500	73,477 47,011	0.86 0.55	Inner Mongolia BaoTou Steel Union Co.	Chill	(2.000	17 722	0.21
China Resources Sanjiu Medical &	CIVII	38,300	47,011	0.55	Ltd. 'A' Inner Mongolia ERDOS Resources Co. Ltd.	CNH	63,900	17,732	0.21
Pharmaceutical Co. Ltd. 'A'	CNH	3,300	22,326	0.26	'A'	CNH	5,880	12,909	0.15
China Southern Airlines Co. Ltd. 'A'	CNH	16,800	18,454	0.22	Inner Mongolia Junzheng Energy &				
China State Construction Engineering Corp. Ltd. 'A'	CNH	96,200	75,499	0.88	Chemical Industry Group Co. Ltd. 'A'	CNH	13,700	7,901	0.09
China Three Gorges Renewables Group Co.		90,200	75,477	0.00	Inner Mongolia Yili Industrial Group Co. Ltd. 'A'	CNH	15,100	67,656	0.79
Ltd. 'A'	CNH	29,900	24,417	0.29	JA Solar Technology Co. Ltd. 'A'	CNH	2,520	21,886	0.26
China Tourism Group Duty Free Corp. Ltd.	CNIII	2.400	74.02/	0.00	Jade Bird Fire Co. Ltd. 'A'	CNH	3,220	13,026	0.15
'A' China United Network Communications	CNH	2,400	74,936	0.88	Jason Furniture Hangzhou Co. Ltd. 'A'	CNH	4,940	30,495	0.36
Ltd. 'A'	CNH	50,700	32,829	0.38	Jiangsu Hengli Hydraulic Co. Ltd. 'A' Jiangsu Hengrui Medicine Co. Ltd. 'A'	CNH	4,800	43,811	0.51 0.87
China Vanke Co. Ltd. 'A'	CNH	22,900	60,238	0.71	Jiangsu Yanghe Brewery Joint-Stock Co.	CNH	13,400	74,623	0.67
China Yangtze Power Co. Ltd. 'A'	CNH	42,700	129,602	1.52	Ltd. 'A'	CNH	2,700	62,633	0.73
China Zhenhua Group Science & Technology Co. Ltd. 'A'	CNH	700	11,557	0.14	Jiangsu Yuyue Medical Equipment &			10.000	0.22
Chongging Brewery Co. Ltd. 'A'	CNH	2,300	42,344	0.50	Supply Co. Ltd. 'A' Joincare Pharmaceutical Group Industry	CNH	4,100	18,880	0.22
Chongqing Fuling Zhacai Group Co. Ltd.		_,			Co. Ltd. 'A'	CNH	16,600	27,087	0.32
'A'	CNH	6,700	24,955	0.29	Joinn Laboratories China Co. Ltd. 'A'	CNH	2,380	20,092	0.24
Chongqing Zhifei Biological Products Co. Ltd. 'A'	CNIT	3 300	41,891	0.49	Jointown Pharmaceutical Group Co. Ltd.				
CITIC Securities Co. Ltd. 'A'	CNH CNH	3,300 25,000	71,941	0.49	'A'	CNH	8,700	16,397	0.19
CMOC Group Ltd. 'A'	CNH	56,400	37,090	0.43	Jonjee Hi-Tech Industrial And Commercial Holding Co. Ltd. 'A'	CNH	6,100	32,506	0.38
Contemporary Amperex Technology Co.					Kweichow Moutai Co. Ltd. 'A'	CNH	2,100	524,177	6.14
Ltd. 'A'	CNH	3,700	210,390	2.47	Laobaixing Pharmacy Chain JSC 'A'	CNH	2,100	12,283	0.14
COSCO SHIPPING Holdings Co. Ltd. 'A' CRRC Corp. Ltd. 'A'	CNH	28,100	41,792	0.49 0.29	LB Group Co. Ltd. 'A'	CNH	3,900	10,665	0.12
CSC Financial Co. Ltd. 'A'	CNH CNH	33,800 8,000	24,963 27,461	0.29	Livzon Pharmaceutical Group, Inc. 'A'	CNH	1,700	7,981	0.09
			25,199	0.30	LONGi Green Energy Technology Co. Ltd. 'A'	CNIII	15,520	94,795	1.11
Daqin Railway Co. Ltd. 'A'	CNH	26,100	ZJ,177	0.50					
Dian Diagnostics Group Co. Ltd. 'A'	CNH CNH	26,100 2,000	7,264	0.09	Luxi Chemical Group Co. Ltd. 'A'	CNH CNH		11,103	0.13
							6,200 15,200		

### Hilling Count CLLEX ***    Comparison	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Transpare fronting of Little "X"	Maxscend Microelectronics Co. Ltd. 'A'									0.27
Asset Section (2014) 1. 10. 10. 10. 10. 10. 10. 10. 10. 10.	Montage Technology Co. Ltd. 'A'									0.39
Month   Territorion   County C.   14.7   1.00   2.20   2.27   1.00   1	Muyuan Foods Co. Ltd. 'A'						CNIII	2.100	11 000	0.13
Ministrate (mp.)   Column										0.13
Digital Harmon Group, Dr. 24   1990   2,000	Ninestar Corp. 'A'			18,000	0.21	Suzhou TA&A Ultra Clean Technology Co.				0.13
Content Securities C. L.C. W.   Coll   7,700   9,500   2,84   0,85   0										0.13
Perfect World Co. Ltf. \( \text{Y} \)	Orient Securities Co. Ltd. 'A'					TCL Zhonghuan Renewable Energy				
Pulsarian emiling Co. List. W	Perfect World Co. Ltd. 'A'									
Page   a final accided   1.5						Tianqi Lithium Corp. 'A'			13,700	0.16
Common   C	Ping An Bank Co. Ltd. 'A'						CNH	9,380	20,878	0.24
Page Proceduranters & Hordings From Co. Child. 18. Child   15.000	Ping An Insurance Group Co. of China Ltd.	CNII	20.000	1/11 205	1.66		CNH	41,300	18,624	0.22
Pacial Surviyage Bask of China Cu, Luf. \( \text{V} \) OH   78,300   \$9,650   \$0.00	Poly Developments & Holdings Group Co.	CNII	20,000					10,600		0.69
Diagraph place   Blomedical Co. List.     Chil     8.53   7.438   Chil   Chil     Chil     8.59     2.596   Chil     Chil   Chil     Chil     Chil   C										0.10
Sengeling personnerial Co. List. N. C. H. 15,300 27,270 0.30 20 20 20 20 20 20 20 20 20 20 20 20 20	Qingdao Haier Biomedical Co. Ltd. 'A'					Unigroup Guoxin Microelectronics Co. Ltd.				
Selection Computed   No.   Computed	Qinghai Salt Lake Industry Co. Ltd. 'A'									
Samples Technologies, Inc. N°  ORI 1.600 26,227 0.30 Mill semicronaucht or, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10						Weichai Power Co. Ltd. 'A'				0.15
Sabelline Demiral Co. Ltd. "A CHH 7.051 15.796   0.19   0.	Sangfor Technologies, Inc. 'A'									0.37
Since Promore Hindrings Co. Ltd. 'A'  ONH 1,200  No. H. 1,200  ONH 4,500  ONH 4,300  ONH										0.35 2.17
SF Holding Co, Ltd. "A"						WuXi AppTec Co. Ltd. 'A'	CNH	5,900	69,072	0.81
Searching Col. Lit. 'A'   CNH   3.00   8.565   CNH   3.00   8.565   CNH   3.00   3.217   CNH   3.00   3.218   CNH	SF Holding Co. Ltd. 'A'			54,263	0.64					0.15
Standback Habit Herighteng Chemical Co.   CNH   4,300   24,000   24   24   25   24   25   24   25   25	SG Micro Corp. 'A'									
Ltd. 'A' Shandaring Sun Paper Industry ISC Ltd. 'A' CNH 4,300 20,602 0,24 Verleg Pharmacy Chair Ltd. 'A' CNH 3,600 8,477 0,105 Shandaring Sun Paper Industry ISC Ltd. 'A' CNH 5,000 8,991 0,11 Verlag Bharmacy Chair Ltd. 'A' CNH 3,600 8,477 0,105 Shandaring Sun Paper Industry ISC Ltd. 'A' CNH 3,000 1,750 1,409 0,107 CNH 3,000 1,750 1,750 0,107 CNH 1,000 1,000 1,750 1,000 1,0		CNH	3,100	8,585	0.10	Yealink Network Technology Corp. Ltd. 'A'			8,757	0.10
Shangha Baseght Software Co. Ltd. 'A' CNH 6.500 42.088 0.49 Variety of the Co. Ltd. 'A' CNH 9.00 11.989 0.14 Shangha Lorentz on Foundation of Foundation of Co. Ltd. 'A' CNH 2.000 16.682 0.27 Volyrous Network Technology Co. Ltd. 'A' CNH 11.600 37.728 0.44 CNH 1.600 37.86 30.43 Shanghal International Port Group Co. CNH 2.000 17.752 0.27 Volyrous Network Technology Co. Ltd. 'A' CNH 1.600 37.86 30.43 Shanghal Langwin Electrical Co. Ltd. 'A' CNH 1.600 37.86 30.43 Shanghal Langwin Electrical Co. Ltd. 'A' CNH 1.600 37.86 30.43 Shanghal Langwin Electrical Co. Ltd. 'A' CNH 1.600 37.86 30.43 Shanghal Langwin Electrical Co. Ltd. 'A' CNH 1.600 37.86 30.43 Shanghal Electrical Co. Ltd. 'A' CNH 1.600 37.86 30.43 Shanghal Patilal New Energy Technology Co. Ltd. 'A' CNH 1.600 37.49 CNH 2.000 57.66 0.33 CNH 2.000 57.66 0.30 CNH 2.000 57.66 0.30 CNH 2.000 57.66 0.30 CNH	Ltd. 'A'									0.39
Shanephal construction Group Co. Ltd. 'A' CMH 973500 14,092 0.17 Co. Ltd. 'A' CMH 9700 11,980 0.14 CMH 9700 0.14 C	Shandong Sun Paper Industry JSC Ltd. 'A'						CNH	5,300	8,45/	0.10
Shanghal international Airport Co. Ltd. 'A'						Co. Ltd. 'A'				0.14
Ltd. 2. CMH 2.000 17.752 0.21 Vanda infolding Co. Ltd. "A" CMH 7.900 16.419 0.25 0.25 Shanghai Languin Detricia Co. Ltd. "A" CMH 1.000 26.265 0.27 Vanna Aliminimu Co. Ltd. "A" CMH 1.540 12.100 0.25 Shanghai MaG Stationery, Inc. "A" CMH 2.500 30.991 0.36 Vanna Aliminimu Co. Ltd. "A" CMH 1.540 12.100 0.25 CMH 1.540 0.25 C	Shanghai International Airport Co. Ltd. 'A'									0.44
Shasphal Langvin Electrical Co. Ltd. 'A'	Shanghai International Port Group Co.	CNIII	22,000	17 752	0.21					0.39
Shanghal pludong bevelopment Bank Co. Ltd. 'A' CNH 25,500 26,831 0.31 Vinnan Tince The Strip New Material Co. Ltd. 'A' CNH 4,500 33,749 0.40 Cntd. 'A' Shangh plutalial keve Energy Technology Cntd. 'A' CNH 4,500 33,749 0.40 Cntd. 'A' CNH 3,000 15,214 Cntd. 'A' CNH 3,000 15,214 Cntd. 'A' CNH 3,400 7,061 0.08 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 3,000 15,214 Cntd. 'A' CNH 3,400 7,061 0.08 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,103 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,600 3,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Co. Ltd. 'A' CNH 4,000 2,000 Zheljang Chinit Electrics Chinit 'A' CNH 4,000 Zheljang Chinit Electrics Chinit 'A' CNH 4,000 Zheljang Chinit Electrics Chinit 'A' CNH 4,000 Zheljang Chinit Electrics Chinit	Shanghai Liangxin Electrical Co. Ltd. 'A'					Yunnan Aluminium Co. Ltd. 'A'	CNH	13,400	21,537	0.25
Litd. 26.  CNH 25.500 26.83  0.31 Vinnan Tin Co. Ltd. 12 Vinnan Tin	Shanghai M&G Stationery, Inc. 'A'				0.36					0.14
Shangha Putalial New Energy Technology   CNH   4,500   33,749   0,40   Co. Ltd. 'A'   CNH   7,00   29,184   0,34   Co. Ltd. 'A'   CNH   1,400   57,667   0,68   Co. Ltd. 'A'   CNH   13,800   15,214   0,18   Co. Ltd. 'A'   CNH   3,400   7,081   0,08   Zhejiang Chin'i Electric's Co. Ltd. 'A'   CNH   3,800   15,214   0,18   Co. Ltd. 'A'   CNH   3,400   7,081   0,08   Zhejiang Dahua Technology Co. Ltd. 'A'   CNH   4,600   31,813   0,37   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,600   31,813   0,37   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,600   31,813   0,37   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,600   31,813   0,37   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,600   31,813   0,37   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,600   31,813   0,37   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,600   31,813   0,37   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,600   31,813   0,37   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,600   31,813   0,37   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,600   31,900   0,41   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,000   29,000   0,42   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,100   29,000   0,43   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,100   29,000   0,34   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,100   29,000   0,34   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,100   29,000   0,34   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,100   29,000   0,34   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,100   29,000   0,34   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,000   2,000   0,34   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,000   2,000   0,34   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,000   2,000   0,34   CNEWNAH Hongyuan Group Co. Ltd. 'A'   CNH   4,000   CNEWNA		CNH	25 500	26 831	0.31					0.20
Shankinghuacun Fen Wine Factory Co.   CNH   1.400   57.667   0.68   Zhejjang Chint IEterits Co.   Ltd. "X	Shanghai Putailai New Energy Technology					Zhangzhou Pientzehuang Pharmaceutical				
Lit. 'A' CNH 1,400 57,667 0,68	Co. Ltd. 'A'	CNH	4,500	33,749	0.40					
Sherwan Hongyuan Group Co. Ltd. 'A'	Ltd. 'A'	CNH	1,400	57,667	0.68					0.26
Shenzhen Capchem Technology Co. Ltd.	Shengyi Technology Co. Ltd. 'A'									0.37
CNH 3,660 22,995 0.7 Electrical Co. Ltd. 'A' CNH 4,100 9.04 3,009 0.43 4,009		CNH	34,600	19,903	0.23		CNH	2,600	20,905	0.24
CALID   CALI	'A'	CNH	3,660	22,995	0.27	Electrical Co. Ltd. 'A'				0.41
Shenzhen Mindray Bio-Medical Electronics   Co. Ltd. 'A'   Co. Lt		CNH	7 000	70.315	0.82		CNH	4,100	29,309	0.34
Shenzhen Overseas Chinese Town Co. Ltd.   Shenzhen Overseas Chinese Town Co. Ltd.   Shenzhen Senior Technology Material Co.   CNH   3,200   10,169   0.12   2huzhou Kibing Group Co. Ltd.   'A'   CNH   4,200   6,914   0.08   2huzhou Kibing Group Co. Ltd.   'A'   CNH   4,200   6,914   0.08   2huzhou Kibing Group Co. Ltd.   'A'   CNH   4,200   6,914   0.08   2huzhou Kibing Group Co. Ltd.   'A'   CNH   4,200   6,914   0.08   2huzhou Kibing Group Co. Ltd.   'A'   CNH   4,200   6,914   0.08   2huzhou Kibing Group Co. Ltd.   'A'   CNH   4,200   6,914   0.08   2huzhou Kibing Group Co. Ltd.   'A'   CNH   4,200   6,914   0.08   2huzhou Kibing Group Co. Ltd.   'A'   CNH   4,200   2huzhou Kibing Group Co. Ltd.   'A'   CNH   4,200   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   11,960   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   0.14   2huzhou Kibing Group Co. Ltd.   'A'   CNH   3,200   0.14   2huzhou Kibing Group Co. Ltd.   'A'	Shenzhen Mindray Bio-Medical Electronics					Co. Ltd. 'A'				0.34
CN		CNH	2,500	114,170	1.34					
Shenzhen Senior Technology Material Co.   CNH   3.246   9.974   0.12   Zijin Mining Group Co. Ltd. 'A'   CNH   47.100   68.075   0.88   CNH   2.900   24.040   0.28   ZTE Corp. 'A'   CNH   3.200   24.040   0.28   ZTE Corp. 'A'	'A'	CNH	13,200	10,169	0.12					0.08
Sichuan Chuantou Energy Co. Ltd. 'A'   CNH   13,600   24,040   0.28   21 Corp. A   China total   8,486,510   99,46	Shenzhen Senior Technology Material Co.	CNII	2 2/16	9 974	0.12	Zijin Mining Group Co. Ltd. 'A'	CNH	47,100	68,075	0.80
Sichuan Hebang Biotechnology Co. Ltd. 'A'	Sichuan Chuantou Energy Co. Ltd. 'A'					ZTE Corp. 'A'	CNH	3,200	11,960	0.14
Sichuan Road & Bridge Co. Ltd. 'A' CNH 8.000 12.858 0.15 Total investments in Equities 8,486,510 99.46 Sichuan Road Walfun Co. Ltd. 'A' CNH 2.300 28.063 0.33 Sinomine Resource Group Co. Ltd. 'A' CNH 800 7,708 0.09 P.46 P.46 P.46 P.46 P.46 P.46 P.46 P.46	Sichuan Hebang Biotechnology Co. Ltd. 'A'	CNH	32,200			China total			8,486,510	99.46
Sichuan Swellfun Co. Ltd. 'A' CNH 2,300 28,063 0.33 Sinomine Resource Group Co. Ltd. 'A' CNH 800 7,708 0.09  Fair Value Net Assets  Total financial assets at fair value through profit or loss 47,302 0.55 Other asset value attributable to holders of redeemable participating shares 8,532,899 100.00  Transferable securities and money market instruments admitted to official stock exchange listing 0.61 0.61						Total investments in Equities		-		
Total financial assets at fair value through profit or loss 8,486,510 Po.46 Cash Po.50 Po.	Sichuan Swellfun Co. Ltd. 'A' Sinomine Resource Group Co. Ltd. 'A'	CNH	2,300	28,063	0.33	Total investments in Equities		=	8,486,510	99.46
Total financial assets at fair value through profit or loss Cash 47,302 0.55 Other assets and liabilities (913) (0.01) Net asset value attributable to holders of redeemable participating shares 8,532,899 100.00  Analysis of total assets (Unaudited) \$9.39 Other assets \$9.39									Value	% of Net Assets
Cash Other assets and liabilities (913) (0.01) Net asset value attributable to holders of redeemable participating shares 8,532,899 100.00  Analysis of total assets (Unaudited) \$\final \text{90} \text{90.39} \\  Transferable securities and money market instruments admitted to official stock exchange listing Other assets  \text{10.55} \\  \text{9.55} \\  \text{90.55} \\  \text{90.10} \\  \text{90.39} \\  \text{0.61} \\	Total financial assets at fair value through	profit or loss	5							
Analysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing Other assets  O.61	Cash Other assets and liabilities			hares					(913)	(0.01)
Transferable securities and money market instruments admitted to official stock exchange listing  Other assets  0.61										
Other assets	Analysis of total assets (Unaudited)									Assets
Total Assets		t instruments	admitted to offi	icial stock exch	nange listing	5			-	
	Total Assets									100.00

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities					Sweden				
Canada West Fraser Timber Co. Ltd.	CAD	4,883	352,346	2.63	Boliden AB Nibe Industrier AB 'B'	SEK SEK	2,250 17,723	84,487 165,162	0.63 1.23
Canada total	CAD	4,003			Sweden total		_	249,649	1.86
China		-	352,346	2.63	Switzerland		-		
Contemporary Amperex Technology Co. Ltd. 'A'	CNH	2,500	142,155	1.06	ABB Ltd. Sika AG	CHF CHF	13,920 1,721	422,174 412,392	3.15 3.08
NARI Technology Co. Ltd. 'A' Tongwei Co. Ltd. 'A'	CNH CNH	15,500 24,900	54,663 138,844	0.41	Switzerland total		-	834,566	6.23
China total	CNH	24,900 -	335,662	2.51	United Kingdom	5115	-	· · · · · · · · · · · · · · · · · · ·	
Denmark		-		2.51	CNH Industrial NV  United Kingdom total	EUR	25,827 -	412,493	3.08
Orsted A/S Vestas Wind Systems A/S	DKK DKK	651 2,896	58,982 83,997	0.44 0.63	United States		-	412,493 ————————————————————————————————————	3.08
Denmark total		_	142,979	1.07	AGCO Corp. Autodesk, Inc.	USD USD	2,685 2,200	372,383 411,114	2.78 3.07
Finland	FUD	12 211	455,214	3.40	Carrier Global Corp. ChargePoint Holdings, Inc.	USD USD	8,495 3,339	350,419 31,821	2.62 0.24
UPM-Kymmene OYJ	EUR	12,211			Deere & Co. Enphase Energy, Inc.	USD USD	1,199 984	514,083 260,721	3.84 1.95
Finland total		_	455,214	3.40	Evoqua Water Technologies Corp.	USD	7,347	290,941	2.17
France Dassault Systemes SE	EUR	10,019	358,155	2.68	Johnson Controls International plc NextEra Energy, Inc.	USD USD	1,292 6,404	82,688 535,374	0.62 4.00
Neoen SA Nexans SA	EUR	2,574	103,319 115,095	0.77	Plug Power, Inc.	USD	1,356	16,774	0.13
Schneider Electric SE	EUR EUR	1,277 3,721	519,120	0.86 3.88	Rayonier, Inc., REIT TE Connectivity Ltd.	USD USD	5,827 1,064	192,058 122,147	1.43 0.91
SPIE SA	EUR	7,578	197,014	1.47	Tetra Tech, Inc.	USD	2,088	303,157	2.26
France total		_	1,292,703	9.66	Trimble, Inc. Weyerhaeuser Co., REIT	USD USD	1,097 11,344	55,464 351,664	0.41 2.63
Germany		=			Xylem, Inc.	USD	5,164	570,983	4.27
Encavis AG Infineon Technologies AG	EUR EUR	5,351 16,116	105,565 488,990	0.79 3.65	United States total			4,461,791	33.33
Mercedes-Benz Group AG	EUR	6,533 -	428,102	3.20	Total investments in Equities		=	13,031,317	97.34
Germany total Ireland		-	1,022,657	7.64					
Kingspan Group plc Trane Technologies plc	EUR USD	3,507 3,062	189,313 514,692	1.41 3.85					
Ireland total	d3D	5,002	704,005	5.26					
Israel		-							
SolarEdge Technologies, Inc.	USD	849 -	240,496	1.80					
Israel total		_	240,496	1.80					
<i>Italy</i> Ariston Holding NV Prysmian SpA	EUR EUR	2,717 10,230	27,895 378,417	0.21 2.82					
Italy total		_	406,312	3.03					
Japan		-	244.054						
Daikin Industries Ltd. Keyence Corp.	JPY JPY	1,600 1,000	244,951 389,708	1.83 2.91					
Kurita Water Industries Ltd.	JPY	2,600	107,590	0.80					
Japan total		_	742,249	5.54					
Netherlands Alfen Beheer BV Arcadis NV Koninklijke DSM NV	EUR EUR EUR	1,353 2,267 554	121,584 88,794 67,581	0.91 0.66 0.51					
Netherlands total		=	277,959	2.08					
Norway	1101/	-	14 200	0.11					
Aker Carbon Capture ASA TOMRA Systems ASA	NOK NOK	12,108 3,749	14,209 63,022	0.11 0.47					
Norway total			77,231	0.58					
South Korea LG Energy Solution Ltd. Samsung SDI Co. Ltd.	KRW KRW	361 626	124,330 292,579	0.93 2.18					
South Korea total		_	416,909	3.11					
Spain Iberdrola SA Solaria Energia y Medio Ambiente SA	EUR EUR	37,747 9,073	440,320 165,776	3.29 1.24					
Spain total		-	606,096	4.53					
		-							

## JPMorgan ETFs (Ireland) ICAV - Climate Change Solutions UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Cash			13,031,317 67,995	97.34 0.51
Cash equivalents  Undertaking for collective investment schemes	Currency	Quantity/ Nominal Value		
JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>1</sup> Total Cash equivalents Other assets and liabilities Net asset value attributable to holders of redeemable participating shares	USD	318,470	318,470 318,470 (29,702) 13,388,080	2.38 2.38 (0.23) 100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Collective investment schemes Other assets  Total Assets				97.08 2.37 0.55 100.00

 $^{1}\!\mathrm{A}$  related party to the Fund.

Schedule of Investments

Commercial SI December 2019   59.000   20.000   20.000   20.000   20.000   20.00000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Manuscript company   1.00		2021: 99.28%	)			· · · · · · · · · · · · · · · · · · ·				1.58 0.39
Marcial form   Marcial Court   Marcial Section	·					Italy total		_	1.884.847	8.38
Application   1999   20100   1999-29   1999-		EUR	331,000	284,948	1.27	Japan (31 December 2021: 1.32%)		_		
According   1997   1998   19		EUR	200,000	189,347	0.84	Asahi Group Holdings Ltd. 1.15%	ELID	100.000	03 000	0.41
Part	Australia total		-	474,295	2.11	Asahi Group Holdings Ltd. 0.34%				
Part	Austria (31 December 2021: 0.25%)		-							0.49
Author   A		EIID	200.000	172 735	0.77	Sumitomo Mitsui Financial Group, Inc.				
Page		LUK	200,000				EUR	160,000 –	143,505	0.64
Member Septic History Septic All 1796	Austria totai		_	172,735	0.77	Japan total		_	439,809	1.95
BIOLINE   SERIES ACT   SERIES   COLOR   SERIES   COLOR   SERIES	Anheuser-Busch InBev SA 2.70% 31/03/2026	EUR	100,000	97,667	0.44	Glencore Finance Europe Ltd. 1.50% 15/10/2026				1.16
Sec Corgon Nr. Fine 2589 e9706/2025   TUE   500.000   264.53   1.88		EUR	200,000	180,751	0.80	Heathrow Funding Ltd. 1.50% 12/10/2025	EUR	428,000	397,672	1.77
Selegistan total						Jersey total			659,547	2.93
								_		
Month   Mont	Belgium total		-	1 003 430	4 46		EUR	312,000	279,994	1.24
Bank of Now Scolia (The) 0.13%	-		-				FIIR	332 000	291 492	1 30
SEP   Finance Sart L 10% 2017/2005   EUR   200,000   315,580   0.56	Bank of Nova Scotia (The) 0.13%	5115	224000	200.041	1.20	Nestle Finance International Ltd. 0.88%				
Particle		EUR	334,000 -	289,941	1.29					0.57
Ranker Enterlands (1967) (1967	Canada total			289,941	1.29					0.96
Banque Febrarity du Credit Mutuel SA   EUR   200,000   198,625   0.88   Limenbourg total   Europhour Scale   189,600   6.00		FUD	100.000	07 625	0.43	Traton Finance Luxembourg SA 0.13%				
Banque Federative du Credit Mutuel SA   100,000   92,464   0.41   Netherlands G1 December 2021: 10,29%   Netherlands G1 December 2021	Banque Federative du Credit Mutuel SA					24/03/2025	EUR	200,000 _	182,243	0.81
O.0196 O/703/702/2025   EUR   100,000   92,464   0.41   Metherlands C11 December 2021: 10.2999		EUR	200,000	198,625	0.88	Luxembourg total			1,369,602	6.09
0.75% 08/06/2026 BMP Parilbas SA, FRN 0.05% 19/02/2028 BMP Parilbas SA, FRN 0.05% 19/02/2028 BMP EAR DESS 0.100% 19/02/2028 EUR 100,000 93.350 0.41 BMP EAR DESS 0.100% 19/02/2028 EUR 100,000 95.250 0.43 BMP EAR DESS 0.100% 19/02/2028 EUR 100,000 95.250 0.43 BMP EAR DESS 0.100% 19/02/2028 EUR 100,000 95.250 0.43 BMP EAR DESS 0.000% 19/02/2028 EUR 100,000 95.250 0.43 BMP EAR DESS 0.000% 19/02/2028 EUR 100,000 95.250 0.43 BMP EAR DESS 0.000% 19/02/2028 EUR 100,000 92.099 0.41 EUR 100,000 92.099 0.41 EUR 200,000 12/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 100,000 92.099 0.41 EUR 200,000 12/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 100,000 92.099 0.41 EUR 200,000 12/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 200,000 17/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 200,000 17/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 200,000 17/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 200,000 17/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 200,000 17/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 200,000 17/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 200,000 17/205 0.75 BMP EAR DESS 0.000% 19/02/2028 EUR 150,000 188,004 0.48 BMP EAR DESS 0.000% 19/02/2028 EUR 150,000 188,004 0.48 BMP EAR DESS 0.000% 19/02/2028 EUR 100,000 19/02/2028 EUR 100,000 19/02/2028 EUR 100,000 188,004 0.48 BMP EAR DESS 0.000% 19/02/2028 EUR 100,000 188,004 0.49 Volkwagen Financial Services A6.013% EUR 100,000 19/02/2028 EUR	0.01% 07/03/2025	EUR	100,000	92,464	0.41			_		
BNP Paribas SA, FRN 0.5096 19/02/2028   EUR   300,000   254,680   1.13   EUP Finance BV 1.639   26/01/2026   EUR   178,000   168,820   0.74	0.75% 08/06/2026	EUR	100,000				EUR	300,000	281,404	1.25
BPCE SA JOS#9 SZ/04/2026   EUR   100,000   93,350   0.41   Inel Finance International NV 0,00%   EUR   200,000   168,751   0.75										0.40
BPCES A, FRN 0.50% 14/01/2028   EUR   100,000   85.317   0.58   CSK Consumer Healthrace Capital NL BV   12.50% (0.50% (							EUR	178,000	100,020	0.74
Credit Agricole S., FRN L363%   Close   Club   Clu							EUR	200,000	168,951	0.75
ELO SACA 2.388 \$2/04/2025	Credit Agricole SA, FRN 1.63%					1.25% 29/03/2026				1.23
Campe SA, FRN 123896 31/12/2049							EUR	100,000	98,823	0.44
Societe Generale SA, FRN 1.00%   EUR   200,000   175,316   0.78   274/11/2030   EUR   157,000   148,596   0.66   0.67   0.679   0.67	Orange SA, FRN 2.38% 31/12/2049	EUR	200,000	188,904	0.84	Netherlands BV 0.00% 22/09/2026	EUR	125,000	108,665	0.48
24/11/2030		EUR	200,000	172,905	0.77		EUR	200,000	193,805	0.86
TotalEnergies SE, FRN 1.75% 31/12/2049 EUR 173,000 163.169 0.73 Stellaris NV 0.63% 30/03/2027 EUR 150,000 129,195 0.58 France total	24/11/2030						FIID	100 000	89.608	0.40
France total								,		0.58
Sermany (31 December 2021: 6.47%)   Sermany (31 December 2021: 6.67%)   Sermany (31 December 2021: 6.00%)   Sermany (31 December 2021: 6		2011	-			Thermo Fisher Scientific Finance I BV	FIIR	100 000	90 544	0.40
Bayer AG 0.75% 06/01/2027   EUR   100,000   88.212   0.39   FRN 3.38% 31/12/2049   EUR   200,000   34.943   0.42   0.45			_	2,066,664	9.18	Viterra Finance BV 0.38% 24/09/2025				0.59
Deutsche Bank AG 1.63% 20/01/2027   EUR   400,000   352,240   1.57   Wolfswagen Flanancial Services AG 0.13%   EUR   300,000   288,241   1.28   WPC Eurobond BV 2.25% 19/07/2024   EUR   316,000   289,864   1.29   1.29   1.20		EUR	100,000	88,212	0.39		EUR	100.000	94,934	0.42
10/06/2024   EUR   300,000   288,241   1.28   WPC Eurobond BV 2.25% 19/07/2024   EUR   350,000   336,069   1.49   Volkswagen Financial Services AG 0.13%   12/02/2027   EUR   109,000   90,908   0.41   Netherlands total   2,720,220   12.09   Volkswagen Leasing GmbH 0.25%   EUR   100,000   88,237   0.39   Norway (31 December 2021: 0.00%)   DNB Bank ASA, FRN 0.38% 18/01/2028   EUR   149,000   129,680   0.58   Volkswagen Leasing GmbH 1.50%   EUR   150,000   135,839   0.60   Norway total   EUR   100,000   87,598   0.39   Norway total   EUR   100,000   91,353   0.40   Norway total   EUR			400,000	352,240	1.57		EUR	200,000		0.77
Volkswagen Financial Services AG 0.13%   EUR   109,000   90,908   0.41   Netherlands total   2,720,220   12.09     Volkswagen Leasing GmbH 0.25%   EUR   100,000   88.237   0.39   Norway (31 December 2021: 0.00%)   DNB Bank ASA, FRN 0.38% 18/01/2028   EUR   149,000   129,680   0.58     19/06/2026   EUR   150,000   135,839   0.60   Norway total   EUR   100,000   87,598   0.39   Norway total   EUR   100,000   91,353   0.40     Vonovia SE 0.00% 01/12/2025   EUR   100,000   87,598   0.39   Norway total   EUR   100,000   91,353   0.40     Ireland (31 December 2021: 1,90%)   AlB Group plc, FRN 0.50% 17/11/2027   EUR   160,000   135,377   0.60     Bank of Ireland Group plc, FRN 0.38% 1 Ireland Group plc, FRN 0.38% 1 Ireland Group plc, FRN 0.38%   EUR   100,000   96,690   0.43     Bank of Ireland Group plc, FRN 0.38% 1 Ireland Group plc, FRN 0.38%   EUR   100,000   96,690   0.43     Bank of Ireland Group plc, FRN 0.38% 1 Ireland Group plc, FRN 0.38% 1 Ireland Group plc, FRN 0.38%   EUR   100,000   96,690   0.43     Banco Santander SA 0.25% 19/06/2024   EUR   100,000   95,593   0.42     Banco Santander SA 0.25% 19/06/2024   EUR   100,000   96,918   0.43     Banco Santander SA 0.25% 19/06/2024   EUR   100,000   96,918   0.43     Banco Santander SA 0.25% 19/06/2025   EUR   100,000   96,918   0.43     Banco Santander SA 0.25% 19/06/2028   EUR   100,000   96,918   0.43     Banco Santander SA 0.25% 19/06/2029   EUR   100,000   98,178   0.40     Banco Santander SA 0.25% 19/06/2029   EUR   100,000   98,178   0.40     Banco Santander SA 0.25% 19/06/2029   EUR   100,000   91,202   0.41     Banco Santander SA 0.25% 19/06/2029   EUR   100,000   91,202   0.41     Banco Santander SA 0.25% 19/06/2029   EUR   100,000   91,202   0.41     Banco Santander SA 0.25% 19/06/2029   EUR   100,000   91,202   0.41     Banco Santander SA 0.25% 19/06/2029   EUR   100,000   91,202   0.41     Banco Santander SA 0.25% 19/06/2029   EUR   100,000   91,202   0.41     Banco Santander SA 0.25% 19/06/2029   EUR   100,000   91,202   0.41     Banco Santande		EUR	300,000	288,241	1.28					1.29
Volkswagen Leasing GmbH 0.25%   EUR   100,000   88,237   0.39   Norway (31 December 2021: 0.00%)   Unb Bank ASA, FRN 0.38% 18/01/2028   EUR   149,000   129,680   0.58   19/06/2026   EUR   100,000   87,598   0.39   Norway total   EUR   100,000   91,353   0.40   EUR   100,000   135,377   0.60   E		FIIR	109 000	90.908	0.41	Netherlands total		_	2 720 220	12.00
Volkwagen Leasing GmbH 1.50%   EUR   150,000   135,839   0.65   19/06/2026   EUR   100,000   135,839   0.65   129,680   0.58   19/06/2026   EUR   100,000   135,839   0.60   135,839   0.60   135,839   0.60   135,839   0.60   135,877   0.60   150,000   129,680   0.58   129,680	Volkswagen Leasing GmbH 0.25%							_		12.09
Vonovia SE 0.00% 01/12/2025   EUR   100,000   87,598   0.39   Norway total   129,680   0.58	Volkswagen Leasing GmbH 1.50%	EUR	100,000				EUR	149,000	129,680	0.58
1,131,275   5.03   Portugal (31 December 2021: 0.00%)   EDP - Energias de Portugal SA 1.63%   EUR   100,000   91,353   0.40     15/04/2027   EUR   160,000   135,377   0.60   Portugal total   Portugal total   EUR   100,000   91,353   0.40     10/05/2027   EUR   227,000   194,544   0.86   27,900   194,544   0.86   27,900   194,544   0.86   1.89   1.8						Norway total		_	129.680	0.58
Ireland (31 December 2021: 1.90%)   EUR   160,000   135,377   0.60   Portugal total   Spain (31 December 2021: 4.26%)   Portugal total   Spain (31 December 2021: 4.26%)   Portugal total   Spain (31 December 2021: 4.26%)   Spain (31 December 2		Luit	100,000			Portugal (31 December 2021: 0 00%)		_		
AlB Group pic, FRN 0.50% 17/11/2027	•		_	1,131,275	5.03	EDP - Energias de Portugal SA 1.63%	FUD	100.000	01.252	0.40
Spain (31 December 2021: 4.26%)   Spain (41 December 2021: 4.26%)   Spai	AIB Group plc, FRN 0.50% 17/11/2027	EUR	160,000	135,377	0.60		EUR	100,000 –		0.40
100,000   96,690   0.43   Balico Santander SA 0.25% 19/06/2024   EUR   100,000   95,593   0.42		EUR	227,000	194,544	0.86			_		
CaixaBank SA 0.88% 25/03/2024   EUR   100,000   96,918   0.43		EUR	100,000	96,690	0.43					0.42
CaixaBank SA 0.75% 09/07/2026 EUR 100,000 88,773 0.39 CaixaBank SA 0.75% 06/05/2028 EUR 300,000 251,934 1.12   Assicurazioni Generali SpA 4.13% CaixaBank SA, FRN 0.75% 26/05/2029 EUR 100,000 98,178 0.44   04/05/2026 EUR 200,000 201,954 0.90 Ferrovial Emisiones SA 2.50% 15/07/2024 EUR 200,000 195,951 0.87   Autostrade per l'Italia SpA 4.38%   16/09/2025 EUR 100,000 99,309 0.44   Ferrovial Emisiones SA 1.38% 14/05/2026 EUR 100,000 91,202 0.41   Telefonica Emisiones SA 1.20%   21/08/2027 EUR 100,000 89,178 0.44   Telefonica Emisiones SA 1.20%   21/08/2027 EUR 100,000 89,116 0.40   Enel SpA, FRN 2.50% 31/12/2049 EUR 100,000 97,597 0.43   ENI SpA 1.75% 18/01/2024 EUR 200,000 197,396 0.88   Spain total   1,096,363 4.87	Ireland total		=	426,611	1,89	CaixaBank SA 0.88% 25/03/2024	EUR	100,000	96,918	0.43
Assicurazioni Generali SpA 4.13% 04/05/2026 EUR 200,000 201,954 0.90 Ferrovial Emisiones SA 2.50% 15/07/2024 EUR 200,000 195,951 0.87 Ferrovial Emisiones SA 1.38% 14/05/2026 EUR 200,000 195,951 0.87 Ferrovial Emisiones SA 1.38% 14/05/2026 EUR 100,000 99,309 0.44 Telefonica Emisiones SA 1.20% EUR 100,000 97,597 0.43 ENI SpA 1.75% 18/01/2024 EUR 200,000 197,396 0.88 Spain total EMI Spa 1.75% 18/01/2024 EUR 303,000 291,128 1.30 CaixaBank SA, FRN 3.75% 15/02/2029 EUR 100,000 98,178 0.44 EUR 200,000 195,951 0.87 Ferrovial Emisiones SA 1.38% 14/05/2026 EUR 100,000 91,202 0.41 Telefonica Emisiones SA 1.20% EUR 100,000 89,116 0.40 EUR 100,000 97,597 0.43 EUR 200,000 197,396 0.88 Spain total 100,000 197,396 0.88 Spain total 100,000 197,396 0.88 Spain total 100,000 197,396 1.00% 04/07/2024 EUR 303,000 291,128 1.30 100,000 100,000 100,000 197,396 1.00% 04/07/2024 EUR 303,000 291,128 1.30 100,000 100,000 197,396 1.00% 04/07/2024 EUR 303,000 291,128 1.30 100,000 100,000 100,000 197,396 1.00% 04/07/2024 EUR 303,000 291,128 1.30 100,000 100,	Italy (31 December 2021 · 5 55%)		-							0.39
Autostrade per l'Italia SpA 4.38% 16/09/2025 EUR 100,000 99,309 0.44 Enel SpA, FRN 2.50% 31/12/2049 EUR 200,000 197,396 0.88 ENI SpA 1.75% 18/01/2024 EUR 200,000 291,128 1.30 Enel SpA 1.75% 18/01/2024 EUR 303,000 291,128 1.30 ENI SpA 1.75% 18/01/2024 EUR 303,000 291,128 1.30 ENI SpA 1.00% 04/07/2024 EUR 303,000 291,128 1.30	Assicurazioni Generali SpA 4.13%			201.051	0.00	CaixaBank SA, FRN 3.75% 15/02/2029				0.44
16/09/2025 EUR 100,000 99,309 0.44 Telefonica Emisiones SA 1.20% Enel SpA, FRN 2.50% 31/12/2049 EUR 100,000 97,597 0.43 ENI SpA 1.75% 18/01/2024 EUR 200,000 197,396 0.88 Spain total 100,000 04/07/2024 EUR 303,000 291,128 1.30 Spain total 100,000 EUR 1,096,363 4.87		EUR	200,000	201,954	0.90					0.87
Enel SpA, FRN 2.50% 31/12/2049 EUR 100,000 97,597 0.43	16/09/2025					Telefonica Emisiones SA 1.20%		100,000		
ENI SpA 1.75% 18/01/2024 EUR 200,000 197,396 0.88 Spain total 1,096,363 4.87 Intesa Sanpaolo SpA 1.00% 04/07/2024 EUR 303,000 291,128 1.30						21/08/2027	EUR	100,000	89,116	0.40
	ENI SpA 1.75% 18/01/2024	EUR	200,000	197,396	0.88	Spain total			1,096,363	4.87
	Intesa Sanpaolo SpA 1.00% 04/07/2024 Italgas SpA 0.25% 24/06/2025	EUR EUR	303,000 370,000	291,128 337,946	1.30 1.50			_		

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Sweden (31 December 2021: 2.84%)					Eli Lilly & Co. 1.63% 02/06/2026	EUR	330,000	310,579	1.38
Svenska Handelsbanken AB 0.13% 18/06/2024	EUR	110,000	104,872	0.47	Equinix, Inc. 0.25% 15/03/2027 Exxon Mobil Corp. 0.14% 26/06/2024	EUR EUR	100,000 300,000	86,442 286,279	0.38 1.27
Sweden total		_	104,872	0.47	General Motors Financial Co., Inc. 1.69% 26/03/2025	EUR	200,000	189,185	0.84
Switzerland (31 December 2021: 3.95%)		-			Goldman Sachs Group, Inc. (The) 2.13% 30/09/2024	EUR	145,000	141,833	0.63
Credit Suisse Group AG, FRN 1.25% 17/07/2025	EUR	475,000	426,215	1.89	Illinois Tool Works, Inc. 0.25% 05/12/2024 International Flavors & Fragrances, Inc.	EUR	136,000	128,288	0.57
Credit Suisse Group AG, FRN 1.00% 24/06/2027	EUR	100,000	78,391	0.35	1.75% 14/03/2024	EUR	100,000	97,710	0.44
UBS Group AG, FRN 1.25% 17/04/2025	EUR	202,000	194,270	0.86	International Flavors & Fragrances, Inc. 1.80% 25/09/2026	EUR	317,000	288,424	1.28
UBS Group AG, FRN 0.25% 05/11/2028	EUR	241,000	196,706	0.88	McDonald's Corp. 0.63% 29/01/2024	EUR	100.000	98,016	0.44
Switzerland total		_	005 503	2.00	McDonald's Corp. 1.88% 26/05/2027	EUR	100,000	93,261	0.42
Switzeriand total			895,582	3.98	Morgan Stanley, FRN 0.41% 29/10/2027	EUR	314,000	270,897	1.20
United Kingdom (31 December 2021: 13.57%)	)	_			RELX Capital, Inc. 1.30% 12/05/2025	EUR	200,000	189,203	0.84
Aviva plc, FRN 3.88% 03/07/2044	EUR	200,000	195,273	0.87	Thermo Fisher Scientific, Inc. 0.75%				
Barclays plc, FRN 0.88% 28/01/2028	EUR	161,000	137,479	0.61	12/09/2024	EUR	106,000	101,439	0.45
BP Capital Markets plc 1.57% 16/02/2027 BP Capital Markets plc, FRN 3.25%	EUR	161,000	147,333	0.66	Thermo Fisher Scientific, Inc. 1.40% 23/01/2026	EUR	200,000	187,472	0.83
31/12/2049	EUR	161,000	147,885	0.66	Toyota Motor Credit Corp. 0.25% 16/07/2026	EUR	153,000	137,097	0.61
Cadent Finance plc 0.63% 22/09/2024 Lloyds Bank Corporate Markets plc 2.38% 09/04/2026	EUR	400,000	378,702 110,446	1.68 0.49	Wells Fargo & Co. 1.63% 02/06/2025	EUR	100,000	94,750	0.42
Motability Operations Group plc 0.38%	EUR	116,000			United States total			4,362,555	19.39
03/01/2026	EUR	371,000	337,568	1.50	Total investments in Community Balt Com-				
National Grid plc 2.18% 30/06/2026 NatWest Group plc, FRN 2.00%	EUR	120,000	113,151	0.50	Total investments in Corporate Debt Secu	rities		22,291,244	99.07
04/03/2025 NatWest Group plc, FRN 1.75%	EUR	100,000	97,540	0.44	Total Bonds			22,291,244	99.07
02/03/2026	EUR	302,000	284,120	1.26			:		
NatWest Markets plc 2.00% 27/08/2025 Standard Chartered plc, FRN 1.20%	EUR	180,000	171,099	0.76					
23/09/2031 Tesco Corporate Treasury Services plc	EUR	188,000	156,042	0.69					
2.50% 01/07/2024	EUR	200,000	196,346	0.87					
Vodafone Group plc 0.90% 24/11/2026 Yorkshire Building Society 0.63%	EUR	351,000	317,523	1.41					
21/09/2025	EUR	200,000	181,356	0.81					
United Kingdom total			2,971,863	13.21					
United States (31 December 2021: 20.20%) AbbVie, Inc. 1.38% 17/05/2024 American International Group, Inc. 1.88%	EUR	347,000	337,697	1.50					
21/06/2027	EUR	200,000	180,041	0.80					
Apple, Inc. 1.38% 17/01/2024	EUR	182,000	180,555	0.80					
Bank of America Corp. 2.38% 19/06/2024 Bank of America Corp., FRN 1.95%	EUR	174,000	171,860	0.76					
27/10/2026 Bank of America Corp., FRN 0.58%	EUR	165,000	154,810	0.69					
24/08/2028 Celanese US Holdings LLC 2.13%	EUR	100,000	84,067	0.37					
01/03/2027	EUR	200,000	169,741	0.76					
Citigroup, Inc., FRN 1.25% 06/07/2026	EUR	127,000	118,378	0.53					
			264,531						

	Fair Value EUR	% of Net Assets
Total financial assets at fair value through profit or loss Cash Other assets and liabilities Net asset value attributable to holders of redeemable participating shares	22,291,244 33,599 176,281 22,501,124	99.07 0.15 0.78 100.00
Analysis of total assets (Unaudited)		% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Other assets Total Assets		92.80 4.07 3.13 100.00

Schedule of Investments

Compose	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Control and Cont	Bonds									
Marchaffed December 2003; 0.5790.00   Mod. 10   Mod. 1	Corporate Debt Securities (31 December	2021: 99.07	%)				EUR	600,000	484,400	0.40
SMACH   SMAC						11/03/2031				
Security (Continue Property Continue Property		FUR	800 000	564.576	0.46					
Minimark	Goodman Australia Finance Pty. Ltd.									
Section Front   1.289   1.000/0022   128   1.000.00   971.00   1.000.00   1			,				ELID	200.000	1/12 729	0.12
Trig 21   12   12   13   10   10   10   10   10   10   10	Scentre Group Trust 1 2.25% 16/07/2024									
Separa print frames ca. Ppr. Last   1907		ELID	1 220 000	1 060 120	0.86		FUD	200.000	272 107	0.22
2.79% 2.60% 1/200% 1.0	Sydney Airport Finance Co. Pty. Ltd.	EUK	1,320,000	1,000,120	0.00					
Automaticate   1.00							EUR			
Micros   M	woolworths Group Eta. 0.36% 15/11/2026	EUR	511,000	401,000	0.55					
Amberdon-Sal, 1098   1775,000   1730,070   1.75   1	Australia total			3,045,138	2.48	Societe Generale SA 1.13% 23/01/2025				
			-				FIID	400.000	343 724	0.28
Section		FUR	1.775.000	1,530,967	1.25					
Part					0.17		FUD	100.000	27 652	0.07
Part   Company   Figure   Company   Figure   Company			/				EUK	100,000	67,038	
Section (No. Principles Sect	Belfius Bank SA, FRN 1.25% 06/04/2034			308,199	0.25					
Solution	KBC Group NV, FRN 0.38% 16/06/2027	EUR	500,000	441,045	0.36				,,	
Minks	Belgium total			3,376,623	2.75		FUD	100.000	02.214	0.00
Cheung King [Infrastructure Finance PM]   Cur   600,000   558,279   0.46   Faince Endlar 2021 4.55%   1.85   1.00   1.50   1.0	British Virgin Islands (31 December 2021: 0.	.10%)	-							
British Wrigin Islands (ALD December 2012-10.05940)   Cell   S58,529   O.46   Cell	Cheung Kong Infrastructure Finance BVI		(00.000	EE0 E30	0.46			-		
Character   Char		EUR	600,000		0.40			-	18,511,300	15.09
Cymna InStants (JD Pecember 2021: 0.59%)   Cell   Company   Comp	British Virgin Islands total			558,529	0.46		FUR	400 000	373.328	0.31
1.28%   1.074/2025   EUR   20,000   95,103   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.09   0.08   0.08   0.08   0.08   0.08   0.08   0.09   0.08   0.08   0.09   0.09		)	_			Bayer AG 1.00% 12/01/2036				
CR-Harchison Europe Finance Is Ltd.   2000b 1914/2030   EUR   800,000   625,331   0.51		FUR	800.000	751,032	0.61		FIID	120 000	96 718	0.08
Carpman Islands total   Section	CK Hutchison Europe Finance 18 Ltd.			222.202		Deutsche Bank AG, FRN 1.75%				
Cayman Fabras total	2.00% 13/04/2030	EUR	2//,000 -		0.19		EUR	800,000	625,831	0.51
Deministry 10   Deministry 1	Cayman Islands total			983,315	0.80	30/06/2042	EUR	100,000	71,562	0.06
			=							
Part	Jyske Bank A/S, FRN 0.05% 02/09/2026	EUR	319,000	280,133	0.23	Muenchen, FRN 3.25% 26/05/2049	EUR	100,000	89,400	0.07
Valkwagen Financial Services AG 0.38%   127,000   188,200   188,200   188,200   189,	Denmark total			280,133	0.23		EUR	200.000	196,000	0.16
100,000	France (31 December 2021: 17.76%)		-			Volkswagen Financial Services AG 0.38%				
Ar Languide Finance SA 1.38%   100.000   180.0000   180.0000   180.0000   180.0000   180.0000   180.0000   180.0000   180.0000   180.0000   180.0000   180.0000   180.0000   1		FUD	100.000	07.495	0.00		EUR	256,000	188,200	0.15
20/04/2030   EUR   100,000   86,982   0.07   0000014/2032   EUR   000,000   395,852   0.32   20/04/2034   0.00   193,285   0.16   100,000   193,285   0.16   100,000   193,285   0.16   100,000   193,285   0.16   100,000   193,285   0.16   100,000   193,285   0.16   100,000   193,285   0.16   100,000   193,285   0.16   100,000   193,285   0.16   100,000		EUR	100,000	97,403	0.08	04/04/2024				
20/09/2033		EUR	100,000	86,982	0.07	vonovia SE 0.75% 01/09/2032	EUR	600,000	396,872 	0.32
Arkema SA L 5.0% 20/01/2025  EUR		EUR	400,000	286,072	0.23	Germany total			2,662,529	2.17
Autoroutes du Sud de la France SA L1396   20/04/2026   50/04/2026								=		
20/04/2026   EUR   200,000   185,051   0.15   Alls Group Pic 2,25% 03/07/2025   EUR   175,000   166,061   0.14   AXA SA, FRN 1.38% 07/10/2041   EUR   200,000   147,810   0.12   28   Alls Group Pic, FRN 1.00%   25   25   25   27   27   27   AXA SA, FRN 1.38% 07/10/2042   EUR   417,000   310,367   0.25   25   25   27   27   27   AXA SA, FRN 1.38% 07/10/2047   EUR   70,000   646,474.00   0.30   266,178   0.25   25   27   27   27   AXA SA, FRN 3.38% 06/07/2047   EUR   70,000   646,474.00   0.30   28   27   27   27   27   AXA SA, FRN 3.38% 05/07/2047   EUR   300,000   266,178   0.25   27   27   27   27   AXA SA, FRN 3.25% 28/05/2049   EUR   300,000   286,018   0.23   27   27   27   27   27   AXA SA, FRN 3.38% 05/07/2028   EUR   448,000   392,993   0.32   27   27   27   27   27   27   AXA SA, FRN 3.38% 05/07/2028   EUR   448,000   392,993   0.32   27   27   27   27   27   27   27		EUK	100,000	93,630	0.08		FIIR	1 078 000	937 626	0.76
AXA SA, FRN 1.88% 10/07/2042   EUR   417,000   310.367   0.25   25/11/2025   EUR   408,000   381,695   0.31     AXA SA, FRN 3.23% 28/05/2049   EUR   301,000   266,178   0.25   261/12/2025   EUR   448,000   392,993   0.32     AXA SA, FRN 3.23% 28/05/2049   EUR   300,000   286,018   0.25   261/12/2025   EUR   448,000   392,993   0.32     AXA SA, FRN 3.23% 28/05/2049   EUR   300,000   286,018   0.25   261/12/2025   EUR   400,000   373,561   0.30     AXA SA, FRN 3.23% 28/05/2027   EUR   800,000   718,498   0.59   EUR   200,000   373,561   0.30     AXA SA, FRN 2.39% 28/05/2027   EUR   800,000   718,498   0.59   EUR   200,000   373,561   0.30     AXA SA, FRN 2.39% 28/05/2027   EUR   800,000   718,498   0.59   EUR   200,000   373,561   0.30     AXA SA, FRN 2.39% 28/05/2027   EUR   800,000   525,957   0.43   EUR   300,000   241,811   0.20   68/03/2026   EUR   300,000   244,623   0.20   68/03/2026   EUR   300,000   244,623   0.20   68/03/2026   EUR   300,000   244,623   0.20   68/03/2026   EUR   300,000   419,130   0.34   EUR   300,000   244,623   0.20   EUR   300,000   419,130   0.34   EUR   300,000   244,623   0.20   EUR   300,000   419,130   0.34   EUR   300,000   419,130						AIB Group plc 2.25% 03/07/2025		, ,		
AXA SA, FRN 3.38% 06/07/2047   EUR 700.000							FIID	408 000	381 695	0.31
Banque Federative du Credit Mutuel SA   LZS% 14/01/2025   EUR   300,000   286,018   0.23   Edon Capital Unt.Id Co. 0.75%   EUR   302,000   288,063   0.24   200/09/2024   EUR   302,000   288,063   0.24   200/09/2024   EUR   302,000   288,063   0.24   200/09/2024   EUR   302,000   373,561   0.30   200,000		EUR	700,000			Bank of Ireland Group plc, FRN 0.38%				
1.25% 14/01/2025		EUR	301,000	266,1/8	0.22					
L25% 26/05/2027	1.25% 14/01/2025	EUR	300,000	286,018	0.23	Eaton Capital UnLtd Co. 0.75%				
Banque Federative du Credit Mutuel SA   14/05/2025   14/05/2026   14		EUR	800,000	718,498	0.59		EUR	302,000	288,063	0.24
Ranque Federative du Credit Mutuel SA   EUR   300,000   241,181   0.20   0.69/03/2028   EUR   300,000   241,623   0.20   0.703/2033   EUR   511,000   348,132   0.28   0.63% 03/11/2028   EUR   300,000   244,623   0.20   0.703/2033   EUR   511,000   348,132   0.28   0.63% 03/11/2028   EUR   300,000   244,623   0.20	Banque Federative du Credit Mutuel SA					14/05/2025	EUR	400,000	373,561	0.30
C.25\( 6\) 19/07/2028		EUR	600,000	525,957	0.43		FIIR	200.000	178.588	0.15
0.63% 03/11/2028 EUR 300,000 244,623 0.20 Kerry Group Financial Services UnLtd Co.  BNP Paribas SA, FRN 2.13% 23/01/2027 EUR 600,000 560,034 0.46 2.38% 10/09/2025 EUR 295,000 289,120 0.24  BNP Paribas SA, FRN 1.13% 17/04/2029 EUR 500,000 419,130 0.08 Activity Co. 1.63% 17/06/2039 EUR 283,000 197,343 0.16  BPCE SA 0.25% 15/01/2026 EUR 400,000 360,968 0.29  BPCE SA 1.38% 23/03/2026 EUR 200,000 174,048 0.14  BPCE SA 0.75% 03/03/2031 EUR 500,000 377,476 0.31 Assicurazioni Generali SpA 5.13%  BPCE SA 4.00% 29/11/2032 EUR 500,000 437,606 0.36  Cie Generale des Etablissements Michelin SCA 0.88% 03/09/2025 EUR 300,000 281,520 0.23  CIE Generale des Etablissements Michelin SCA 0.25% 02/11/2032 EUR 200,000 147,245 0.12  CIE Generale des Etablissements Michelin SCA 0.25% 02/11/2032  CIE Generale des Etablissements Michelin SCA 0.25% 02/11/2032  CIE Generale des Etablissements Michelin SCA 0.25% 02/11/2032  CIE GENERAL SOUNCE SA 1.38% 03/09/2025  EUR 300,000 219,536 0.18  AUGUSTRAD AUGUSTRAD AUGUSTRAD AUGUSTRAD AUGUSTRAD AUGUSTRAD AUGUSTRAD EUR 500,000 479,567 0.39  CIE GENERAL SOUNCE SA 1.38% 03/05/2027  CIE GIR Agricole SA 0.50% 24/06/2024 EUR 500,000 118,360 0.13  CIE GIR 300,000 219,536 0.18  AUGUSTRAD AUGUSTRAD EUR 200,000 164,576 0.33  CIE GIR Agricole SA 1.38% 03/05/2027  EUR 300,000 118,360 0.91 26/09/2029  CIE GIR Agricole SA 1.38% 03/05/2027  EUR 300,000 219,536 0.18  AUGUSTRAD AUGUSTRAD EUR 350,000 277,572 0.23  CIE GERT LIBRAD AUGUSTRAD EUR 350,000 277,572 0.23	0.25% 19/07/2028	EUR	300,000	241,181	0.20	Glencore Capital Finance DAC 1.25%				
BNP Paribas SA, FRN 2.13% 23/01/2027   EUR   600,000   560,034   0.46   2.38% 10/09/2025   EUR   295,000   289,120   0.24		EUR	300,000	244,623	0.20		EUR	511,000	348,132	0.28
Boungaires SA 5.38% 30/06/2042   EUR   100,000   102,371   0.08   Activity Co. 1.63% 17/06/2039   EUR   283,000   197,343   0.16		EUR	600,000			2.38% 10/09/2025	EUR	295,000	289,120	0.24
BPCE SA 0.25% 15/01/2026         EUR 400,000 40,000 1,104,796 0.90 1reland total         Leland total         4,086,249 3.33         4,086,249 3.33         3,033         3,033         3,000,000 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,796 0.90 1,104,000 1,104,000 0.90 1							FUR	283 000	197.343	0.16
BPCE SA, FRN 1.63% 02/03/2029					0.29	•	2011	-		
BPCE SA 0.75% 03/03/2031						ireiano totai		_	4,086,249	3.33
BPCE SA 4.00% 29/11/2032 EUR 200,000 194,382 0.16 16/09/2024 EUR 329,000 337,845 0.28 (ie de Saint-Gobain 2.63% 10/08/2032 EUR 500,000 437,606 0.36 Assicurazioni Generali SpA 3.88% 29/01/2029 EUR 200,000 190,757 0.16 (ie Generale des Etablissements Michelin SCA 0.88% 03/09/2025 EUR 300,000 281,520 0.23 Assicurazioni Generali SpA 1.71% 300/2032 EUR 200,000 147,245 0.12 Assicurazioni Generali SpA, FRN 5.50% 27/10/2047 EUR 500,000 219,536 0.18 Autostrade per l'Italia SpA 2.00% EUR 200,000 164,576 0.13 Credit Agricole SA 0.50% 24/06/2024 EUR 500,000 479,567 0.39 04/12/2028 EUR 200,000 180,984 0.15 Autostrade per l'Italia SpA 2.00% EUR 350,000 277,572 0.23 Credit Agricole SA 1.38% 03/05/2027 EUR 200,000 180,984 0.15 Autostrade per l'Italia SpA 2.00%										·
Cie Generale des Etablissements Michelin SCA 0.88% 03/09/2025 EUR 300,000 281,520 0.23 Assicurazioni Generali SpA 1.71% 30/06/2032 EUR 518,000 394,482 0.32 SCA 0.25% 02/11/2032 EUR 200,000 147,245 0.12 Assicurazioni Generali SpA, FRN 5.50% 27/10/2047 EUR 300,000 219,536 0.18 Autostrade per l'Italia SpA 2.00% EUR 200,000 164,576 0.13 Credit Agricole SA 0.50% 24/06/2024 EUR 500,000 479,567 0.39 04/12/2028 EUR 200,000 164,576 0.13 Credit Agricole SA 1.38% 03/05/2027 EUR 1,200,000 180,984 0.15 Autostrade per l'Italia SpA 2.00% EUR 350,000 277,572 0.23 Credit Agricole SA 1.38% 03/05/2027 EUR 200,000 180,984 0.15 Autostrade per l'Italia SpA 2.00%						16/09/2024	EUR	329,000	337,845	0.28
SCA 0.88% 03/09/2025 EUR 300,000 281,520 0.23 Assicurazioni Generali SpA 1.71% 30/06/2032 EUR 518,000 394,482 0.32 ScA 0.25% 02/11/2032 EUR 200,000 147,245 0.12 Assicurazioni Generali SpA, FRN 5.50% 27/10/2047 EUR 300,000 219,536 0.18 Autostrade per l'Italia SpA 2.00% EUR 200,000 164,576 0.13 Credit Agricole SA 0.50% 24/06/2024 EUR 500,000 479,567 0.39 04/12/2028 EUR 200,000 164,576 0.13 Credit Agricole SA, FRN 1.00% EUR 1,200,000 1,118,360 0.91 26/09/2029 EUR 350,000 277,572 0.23 Credit Agricole SA 1.38% 03/05/2027 EUR 200,000 180,984 0.15 Autostrade per l'Italia SpA 2.00%		EUR	500,000	437,606	0.36		FIID	200 000	190 757	0.16
SCA 0.25% 02/11/2032 EUR 200,000 147,245 0.12 Assicurazioni Generali SpA, FRN 5.50% EUR 50,000 656,107 0.54   Credit Agricole Assurances SA 1.50% EUR 300,000 219,536 0.18 Autostrade per l'Italia SpA 2.00% EUR 500,000 479,567 0.39 04/12/2028 EUR 200,000 164,576 0.13   Credit Agricole SA 0.50% 24/06/2024 EUR 1,200,000 1,118,360 0.91 26/09/2029 EUR 350,000 277,572 0.23   Credit Agricole SA 1.38% 03/05/2027 EUR 200,000 180,984 0.15 Autostrade per l'Italia SpA 2.00%	SCA 0.88% 03/09/2025	EUR	300,000	281,520	0.23	Assicurazioni Generali SpA 1.71%				
Credit Agricole Assurances SA 1.50%         EUR         300,000         219,536         0.18         Autostrade per l'Italia SpA 2.00%         EUR         200,000         656,107         0.54           Credit Agricole SA 0.50% 24/06/2024         EUR         500,000         479,567         0.39         Autostrade per l'Italia SpA 1.88%         EUR         200,000         164,576         0.13           Credit Agricole SA 1.38% 03/05/2027         EUR         1,200,000         1,118,360         0.91         26/09/2029         EUR         350,000         277,572         0.23           Credit Agricole SA 1.38% 03/05/2027         EUR         200,000         180,984         0.15         Autostrade per l'Italia SpA 2.00%         EUR         350,000         277,572         0.23		EUR	200,000	147,245	0.12		EUR	518,000	394,482	0.32
Credit Agricole SA 0.50% 24/06/2024         EUR         500,000         479,567         0.39         04/12/2028         EUR         200,000         164,576         0.13           Credit Agricole SA, FRN 1.00%         EUR         1,200,000         1,118,360         0.91         26/09/2029         EUR         350,000         277,572         0.23           Credit Agricole SA 1.38% 03/05/2027         EUR         200,000         180,984         0.15         Autostrade per l'Italia SpA 2.00%         EUR         350,000         277,572         0.23	Credit Agricole Assurances SA 1.50%					27/10/2047	EUR	650,000	656,107	0.54
Credit Agricole SA, FRN 1.00% 22/04/2026							FIID	200 000	164 576	U 13
Credit Agricole SA 1.38% 03/05/2027 EUR 200,000 180,984 0.15 Autostrade per l'Italia SpA 2.00%	Credit Agricole SA, FRN 1.00%					Autostrade per l'Italia SpA 1.88%				
//atostrate per ritaila spri Elouv							EUR	350,000	2//,572	0.23
	Credit Agricole SA 2.00% 25/03/2029			601,058	0.49		EUR	224,000	177,507	0.14

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Autostrade per l'Italia SpA 2.25% 25/01/2032	FUD	202.000	230,532	0.19	BP Capital Markets BV 0.93% 04/12/2040	FUD	307.000	173,455	0.14
Enel SpA, FRN 1.88% 31/12/2049	EUR EUR	303,000 607,000	432,615	0.19	BP Capital Markets BV 1.47% 21/09/2041	EUR EUR	296,000 382,000	238,929	0.20
Enel SpA, FRN 2.25% 31/12/2049	EUR	101,000	86,478	0.07	Cooperatieve Rabobank UA 0.63%				
Enel SpA, FRN 1.38% 08/09/2171	EUR	293,000	231,500	0.19 0.51	27/02/2024 Cooperatieve Rabobank UA, FRN 0.88%	EUR	700,000	679,934	0.55
Intesa Sanpaolo SpA 1.00% 19/11/2026 Intesa Sanpaolo SpA 1.35% 24/02/2031	EUR EUR	709,000 448,000	630,274 332,090	0.31	05/05/2028	EUR	100,000	86,724	0.07
Italgas SpA 0.88% 24/04/2030	EUR	500,000	387,683	0.32	Digital Dutch Finco BV 1.00% 15/01/2032	EUR	260,000	181,720	0.15
Italgas SpA 1.00% 11/12/2031	EUR	462,000	344,244	0.28	Digital Intrepid Holding BV 0.63% 15/07/2031	EUR	241,000	164,928	0.13
Italgas SpA 0.50% 16/02/2033 Terna - Rete Elettrica Nazionale 1.38%	EUR	210,000	143,347	0.12	E.ON International Finance BV 1.50%	Luix	241,000	104,720	0.15
26/07/2027	EUR	100,000	90,223	0.07	31/07/2029	EUR	452,000	389,789	0.32
UniCredit SpA, FRN 1.25% 25/06/2025	EUR	2,300,000	2,201,528	1.79	EDP Finance BV 1.50% 22/11/2027 Enel Finance International NV 0.38%	EUR	1,224,000	1,097,181	0.89
UniCredit SpA, FRN 0.93% 18/01/2028	EUR	200,000	171,251	0.14	28/05/2029	EUR	400,000	317,264	0.26
Italy total			7,480,611	6.10	ING Groep NV, FRN 0.10% 03/09/2025	EUR	900,000	841,368	0.69
Japan (31 December 2021: 1.77%)		-			ING Groep NV 2.13% 10/01/2026 ING Groep NV 2.00% 20/09/2028	EUR EUR	200,000 100,000	190,128 89,203	0.16 0.07
Asahi Group Holdings Ltd. 1.15%					Koninklijke DSM NV 0.25% 23/06/2028	EUR	768,000	638,923	0.52
19/09/2025	EUR	100,000	93,000	0.07	Reckitt Benckiser Treasury Services	FILE	530,000	430.030	0.25
Mitsubishi UFJ Financial Group, Inc. 0.87% 07/09/2024	EUR	600.000	573,543	0.47	Nederland BV 0.75% 19/05/2030 RELX Finance BV 1.38% 12/05/2026	EUR EUR	528,000 202,000	429,029 187,619	0.35 0.15
Mizuho Financial Group, Inc. 1.60%					RELX Finance BV 1.50% 13/05/2027	EUR	484,000	442,641	0.36
10/04/2028 NTT Finance Corp. 0.01% 03/03/2025	EUR EUR	200,000 300,000	177,251 278,172	0.14 0.23	RELX Finance BV 0.50% 10/03/2028	EUR	300,000	253,287	0.21
NTT Finance Corp. 0.34% 03/03/2030	EUR	450,000	353,137	0.29	RELX Finance BV 0.88% 10/03/2032 Siemens Financieringsmaatschappij NV	EUR	495,000	379,871	0.31
Sumitomo Mitsui Financial Group, Inc.					0.25% 20/02/2029	EUR	1,200,000	997,321	0.81
1.55% 15/06/2026	EUR	320,000	295,403	0.24	Thermo Fisher Scientific Finance I BV			124 212	0.10
Sumitomo Mitsui Financial Group, Inc. 1.41% 14/06/2027	EUR	150,000	134,535	0.11	2.00% 18/10/2051 Upjohn Finance BV 1.36% 23/06/2027	EUR EUR	200,000 100,000	124,213 86,912	0.10 0.07
Takeda Pharmaceutical Co. Ltd. 2.25%	5115	4/7.000	4.42.10.4	0.26	Volkswagen International Finance NV	Luik	100,000	00,712	
21/11/2026 Takeda Pharmaceutical Co. Ltd. 1.38%	EUR	467,000	443,104	0.36	0.05% 10/06/2024	EUR	200,000	189,174	0.15
09/07/2032	EUR	300,000	235,837	0.19	Volkswagen International Finance NV 1.88% 30/03/2027	EUR	1,800,000	1,617,225	1.32
Takeda Pharmaceutical Co. Ltd. 2.00%	FUD	100.000	70.437	0.07	Volkswagen International Finance NV	2011	1,000,000		
09/07/2040	EUR	100,000	70,426	0.06	2.63% 16/11/2027	EUR	400,000	367,558	0.30
Japan total			2,654,408	2.16	Volkswagen International Finance NV 1.63% 16/01/2030	EUR	579,000	486,880	0.40
Jersey (31 December 2021: 1.44%)		-			Volkswagen International Finance NV				
Glencore Finance Europe Ltd. 1.75%					4.13% 16/11/2038 Vonovia Finance BV 1.13% 08/09/2025	EUR EUR	200,000 400,000	181,696 363,960	0.15 0.30
17/03/2025	EUR	1,500,000	1,424,061	1.16 0.11	Vonovia Finance BV 1.13% 08/09/2023 Vonovia Finance BV 1.00% 09/07/2030	EUR	500,000	373,673	0.30
Heathrow Funding Ltd. 1.50% 12/10/2025 Heathrow Funding Ltd. 1.50%	EUR	150,000	139,371	0.11	Vonovia Finance BV 1.00% 28/01/2041	EUR	400,000	194,922	0.16
11/02/2030	EUR	1,202,000	977,307	0.80	Wolters Kluwer NV 3.00% 23/09/2026	EUR	700,000	684,442	0.56
Heathrow Funding Ltd. 1.88%	FIID	100 000	77 540	0.06	Wolters Kluwer NV 1.50% 22/03/2027 Wolters Kluwer NV 0.75% 03/07/2030	EUR EUR	306,000	280,691 199,486	0.23 0.16
12/07/2032	EUR	100,000	77,562 	0.06	WPC Eurobond BV 2.25% 19/07/2024	EUR	250,000 601,000	577,079	0.10
Jersey total			2,618,301	2.13	WPC Eurobond BV 1.35% 15/04/2028	EUR	500,000	415,010	0.34
Luxembourg (31 December 2021: 5.67%)		-			Netherlands total			16,113,357	13.14
Aroundtown SA 1.45% 09/07/2028	EUR	300,000	186,451	0.15	New Zealand (31 December 2021: 0.11%)		-		
DH Europe Finance II Sarl 0.20% 18/03/2026	EUR	600,000	540,487	0.44		EUR	200,000	177,405	0.15
DH Europe Finance II Sarl 1.80%					Chorus Ltd. 3.63% 07/09/2029	EUR	360,000	347,418	0.28
18/09/2049 Holcim Finance Luxembourg SA 0.63%	EUR	107,000	68,879	0.06	New Zealand total		-	F2.4.022	0.42
19/01/2033	EUR	810,000	565,812	0.46			_	524,823	0.43
John Deere Cash Management SARL	FIID	200.000	102 112	0.15	Spain (31 December 2021: 3.71%) Banco de Sabadell SA, FRN 1.13%				
1.85% 02/04/2028 Medtronic Global Holdings SCA 1.13%	EUR	200,000	183,113	0.15	11/03/2027	EUR	500,000	446,429	0.36
07/03/2027	EUR	400,000	362,540	0.30	Banco Santander SA, FRN 0.50%			254 257	0.20
Richemont International Holding SA 1.00% 26/03/2026	FIID	340,000	221.142	0.19	24/03/2027 Banco Santander SA 0.20% 11/02/2028	EUR EUR	400,000 500,000	354,357 411,666	0.29 0.33
Richemont International Holding SA	EUR	248,000	231,142	0.19	Bankinter SA, FRN 1.25% 23/12/2032	EUR	800,000	637,855	0.52
1.50% 26/03/2030	EUR	600,000	524,599	0.43	CaixaBank SA, FRN 0.63% 21/01/2028	EUR	500,000	433,677	0.35
SELP Finance Sarl 1.50% 20/11/2025	EUR	1,050,000	949,692	0.77	CaixaBank SA, FRN 0.50% 09/02/2029	EUR	100,000	80,830	0.07
SELP Finance Sarl 1.50% 20/12/2026 SES SA 1.63% 22/03/2026	EUR EUR	262,000 200,000	225,928 181,393	0.18 0.15	CaixaBank SA, FRN 5.38% 14/11/2030 Ferrovial Emisiones SA 1.38%	EUR	200,000	203,809	0.17
SES SA 0.88% 04/11/2027	EUR	650,000	540,262	0.44	31/03/2025	EUR	700,000	659,768	0.54
Traton Finance Luxembourg SA 0.75%					Ferrovial Emisiones SA 1.38%				
24/03/2029 Traton Finance Luxembourg SA 1.25%	EUR	400,000	319,647	0.26	14/05/2026 Ferrovial Emisiones SA 0.54% 12/11/2028	EUR EUR	500,000 200,000	456,012 156,975	0.37 0.13
24/03/2033	EUR	400,000	280,469	0.23	NorteGas Energia Distribucion SA 2.07%	Luix	200,000	130,773	0.13
Luvambaura tatal					28/09/2027	EUR	100,000	88,605	0.07
Luxembourg total		_	5,160,414	4.21	Telefonica Emisiones SA 1.46% 13/04/2026	EUR	500,000	465,976	0.38
Mexico (31 December 2021: 0.31%)		-			Telefonica Emisiones SA 1.20%				
Fomento Economico Mexicano SAB de CV 0.50% 28/05/2028	EUR	600,000	489,648	0.40	21/08/2027 Telefonica Emisiones SA 1.81%	EUR	300,000	267,348	0.22
Mexico total		-			21/05/2032	EUR	100,000	81,734	0.07
		-	489,648	0.40	Spain total		-	4,745,041	3.87
Netherlands (31 December 2021: 14.40%) ABB Finance BV 0.00% 19/01/2030	EUR	214,000	163,544	0.13	Sweden (31 December 2021: 1.02%)		-		
American Medical Systems Europe BV					Svenska Handelsbanken AB 0.05%				
0.75% 08/03/2025	EUR	650,000	609,709	0.50	03/09/2026	EUR	1,188,000	1,033,073	0.84
American Medical Systems Europe BV 1.38% 08/03/2028	EUR	1,100,000	969,287	0.79	Sweden total		-	1 022 072	0.94
Argentum Netherlands BV for Zurich	_0	,,	- 1				-	1,033,073	0.84
Insurance Co. Ltd., FRN 3.50% 01/10/2046	EUR	100,000	94,158	0.08	Switzerland (31 December 2021: 2.27%) Credit Suisse Group AG, FRN 1.00%				
Bayer Capital Corp. BV 2.13% 15/12/2029	EUR	400,000	354,424	0.29	24/06/2027	EUR	500,000	391,957	0.32

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Credit Suisse Group AG, FRN 0.65% 14/01/2028 Credit Suisse Group AG 0.65%	EUR	694,000	517,370	0.42	Eli Lilly & Co. 0.63% 01/11/2031 Exxon Mobil Corp. 0.84% 26/06/2032 FedEx Corp. 0.95% 04/05/2033	EUR EUR EUR	580,000 1,147,000 300,000	454,304 857,286 213,331	0.37 0.70 0.17
10/09/2029 Credit Suisse Group AG 0.63%	EUR	300,000	199,773	0.16	Fidelity National Information Services, Inc. 2.00% 21/05/2030	EUR	150,000	127,841	0.10
18/01/2033 UBS Group AG, FRN 1.25% 17/04/2025	EUR EUR	500,000 748,000	274,218 719,376	0.22 0.59	Fidelity National Information Services, Inc. 2.95% 21/05/2039	EUR	270,000	213,474	0.17
UBS Group AG 1.25% 01/09/2026	EUR	1,313,000	1,182,386	0.97	Fiserv, Inc. 1.63% 01/07/2030	EUR	400,000	329,830	0.17
UBS Group AG 0.63% 24/02/2033 Switzerland total	EUR	348,000	246,941	0.20	General Motors Financial Co., Inc. 2.20% 01/04/2024	EUR	650,000	637,096	0.52
United Kingdom (31 December 2021: 10.359	26)	-	3,532,021	2.88	Goldman Sachs Group, Inc. (The) 1.38% 15/05/2024	EUR	425,000	416,093	0.34
Aon Global Ltd. 2.88% 14/05/2026	EUR	600,000	571,591	0.47	Goldman Sachs Group, Inc. (The) 2.88% 03/06/2026	EUR	102,000	99,297	0.08
AstraZeneca plc 0.75% 12/05/2024 AstraZeneca plc 1.25% 12/05/2028	EUR EUR	100,000 600,000	97,316 535,421	0.08 0.44	Goldman Sachs Group, Inc. (The) 1.63% 27/07/2026	EUR	389,000	362,325	0.30
AstraZeneca plc 0.38% 03/06/2029 Aviva plc, FRN 3.88% 03/07/2044	EUR EUR	591,000 332,000	486,977 324,154	0.40 0.26	Goldman Sachs Group, Inc. (The) 0.25% 26/01/2028	EUR	1,000,000	817,608	0.67
Barclays plc, FRN 1.38% 24/01/2026	EUR	1,082,000	1,012,542	0.83	Goldman Sachs Group, Inc. (The) 3.00%				
Barclays plc, FRN 1.11% 12/05/2032 BP Capital Markets plc 1.10% 15/11/2034	EUR EUR	300,000 361,000	220,288 259,472	0.18 0.21	12/02/2031 Illinois Tool Works, Inc. 0.25%	EUR	230,000	207,229	0.17
British Telecommunications plc 1.75% 10/03/2026	EUR	490,000	459,008	0.37	05/12/2024 Illinois Tool Works, Inc. 0.63%	EUR	767,000	723,506	0.59
Cadent Finance plc 0.75% 11/03/2032	EUR	985,000	729,911	0.60	05/12/2027 Illinois Tool Works, Inc. 1.00%	EUR	982,000	858,997	0.70
HSBC Holdings plc 0.88% 06/09/2024 HSBC Holdings plc, FRN 0.31%	EUR	200,000	191,717	0.16	05/06/2031	EUR	242,000	197,430	0.16
13/11/2026 Lloyds Bank Corporate Markets plc	EUR	266,000	236,868	0.19	International Flavors & Fragrances, Inc. 1.80% 25/09/2026	EUR	569,000	517,707	0.42
0.38% 28/01/2025 Lloyds Bank Corporate Markets plc 2.38%	EUR	450,000	418,780	0.34	Liberty Mutual Group, Inc. 2.75% 04/05/2026	EUR	725,000	689,798	0.56
09/04/2026	EUR	450,000	428,456	0.35	McDonald's Corp. 2.38% 27/11/2024 McDonald's Corp. 1.75% 03/05/2028	EUR EUR	500,000 200.000	491,651 181,925	0.40 0.15
Motability Operations Group plc 0.38% 03/01/2026	EUR	594,000	540,472	0.44	McDonald's Corp. 2.63% 11/06/2029	EUR	300,000	279,384	0.23
National Grid Electricity Transmission plc 0.19% 20/01/2025	EUR	471,000	439,752	0.36	McDonald's Corp. 0.88% 04/10/2033 Metropolitan Life Global Funding I 0.38%	EUR	600,000	444,368	0.36
National Grid Electricity Transmission plc 0.82% 07/07/2032	EUR	298,000	221,961	0.18	09/04/2024 Metropolitan Life Global Funding I 0.50%	EUR	1,230,000	1,183,244	0.96
National Grid plc 0.25% 01/09/2028	EUR	715,000	579,137	0.47	25/05/2029	EUR	100,000	81,378	0.07
National Grid plc 0.75% 01/09/2033 Nationwide Building Society 0.25%	EUR	145,000	101,270	0.08	Mondelez International, Inc. 0.25% 17/03/2028	EUR	200,000	166,407	0.14
22/07/2025 Nationwide Building Society, FRN 1.50%	EUR	400,000	367,869	0.30	Mondelez International, Inc. 1.38% 17/03/2041	EUR	385,000	250,132	0.20
08/03/2026	EUR	145,000	135,487	0.11	Morgan Stanley 1.75% 11/03/2024 Morgan Stanley, FRN 1.34% 23/10/2026	EUR EUR	200,000 979,000	196,487 904,291	0.16 0.74
NatWest Group plc, FRN 1.75% 02/03/2026	EUR	2,150,000	2,022,710	1.65	Morgan Stanley 1.88% 27/04/2027	EUR	965,000	877,224	0.72
NatWest Group plc, FRN 0.78% 26/02/2030	EUR	289,000	226,433	0.19	Morgan Stanley, FRN 0.50% 26/10/2029 Morgan Stanley, FRN 0.50% 07/02/2031	EUR EUR	280,000 101,000	224,224 76,482	0.18 0.06
NatWest Markets plc 2.00% 27/08/2025	EUR	300,000	285,165	0.23	Morgan Stanley, FRN 1.10% 29/04/2033	EUR	254,000	187,348	0.15
Sky Ltd. 2.25% 17/11/2025 Sky Ltd. 2.50% 15/09/2026	EUR EUR	125,000 400,000	120,113 383,946	0.10 0.31	Nestle Holdings, Inc. 0.88% 18/07/2025 PepsiCo, Inc. 0.40% 09/10/2032	EUR EUR	35,000 955,000	33,284 710,335	0.03 0.58
Standard Chartered plc, FRN 0.90% 02/07/2027	EUR	400,000	353,412	0.29	Procter & Gamble Co. (The) 0.50% 25/10/2024	EUR	364,000	347,029	0.28
Thames Water Utilities Finance plc 1.25% 31/01/2032	EUR	503,000	391,306	0.32	Prologis Euro Finance LLC 0.25% 10/09/2027	EUR	676,000	564,850	0.46
Vodafone Group plc 2.20% 25/08/2026	EUR	790,000	750,826	0.61	Prologis Euro Finance LLC 1.50%				
Vodafone Group plc 1.88% 20/11/2029 Vodafone Group plc 2.50% 24/05/2039	EUR EUR	300,000 456,000	262,989 343,530	0.21 0.28	10/09/2049 Southern Power Co. 1.85% 20/06/2026	EUR EUR	100,000 100,000	56,542 93,462	0.05 0.08
United Kingdom total		-	13,498,879	11.01	Stryker Corp. 0.25% 03/12/2024 Thermo Fisher Scientific, Inc. 1.40%	EUR	430,000	404,141	0.33
United States (31 December 2021: 21.98%)		-			23/01/2026 Thermo Fisher Scientific, Inc. 0.50%	EUR	372,000	348,698	0.28
AbbVie, Inc. 1.38% 17/05/2024 AbbVie, Inc. 0.75% 18/11/2027	EUR EUR	400,000 1,425,000	389,276 1,247,354	0.32 1.02	01/03/2028	EUR	1,084,000	927,638	0.76
American Honda Finance Corp. 1.95%					Thermo Fisher Scientific, Inc. 0.88% 01/10/2031	EUR	106,000	83,344	0.07
18/10/2024 American International Group, Inc. 1.88%	EUR	927,000	902,241	0.74	Thermo Fisher Scientific, Inc. 1.50% 01/10/2039	EUR	200,000	134,556	0.11
21/06/2027 American Tower Corp. 0.50% 15/01/2028	EUR EUR	281,000 285,000	252,957 233,428	0.21 0.19	Thermo Fisher Scientific, Inc. 1.88% 01/10/2049	EUR	100,000	62,912	0.05
AT&T, Inc. 1.80% 05/09/2026 AT&T, Inc. 1.80% 14/09/2039	EUR EUR	1,141,000 160,000	1,060,521 110,567	0.86 0.09	Toyota Motor Credit Corp. 0.63% 21/11/2024			664,436	0.54
Bank of America Corp., FRN 1.78%					Toyota Motor Credit Corp. 0.25%	EUR	700,000		
04/05/2027 Bank of America Corp., FRN 1.38%	EUR	482,000	444,065	0.36	16/07/2026 Verizon Communications, Inc. 3.25%	EUR	630,000	564,516	0.46
09/05/2030 Becton Dickinson & Co. 1.90%	EUR	1,300,000	1,081,098	0.88	17/02/2026 Verizon Communications, Inc. 1.38%	EUR	637,000	628,255	0.51
15/12/2026 Berkshire Hathaway, Inc. 1.13%	EUR	556,000	517,313	0.42	02/11/2028 Verizon Communications, Inc. 4.75%	EUR	300,000	259,775	0.21
16/03/2027 Chubb INA Holdings, Inc. 0.30%	EUR	100,000	89,815	0.07	31/10/2034 Wells Fargo & Co., FRN 1.34%	EUR	100,000	102,732	0.08
15/12/2024	EUR	375,000	349,667	0.29	04/05/2025	EUR	300,000	289,320	0.24
Citigroup, Inc., FRN 1.50% 24/07/2026 Citigroup, Inc. 1.25% 10/04/2029	EUR EUR	563,000 495,000	526,699 413,363	0.43 0.34	Wells Fargo & Co. 1.00% 02/02/2027 Westlake Corp. 1.63% 17/07/2029	EUR EUR	1,135,000 200,000	995,458 161,002	0.81
Citigroup, Inc., FRN 4.11% 22/09/2033	EUR	328,000	315,723	0.26	United States total	Edit	200,000		
Danaher Corp. 1.70% 30/03/2024 Discovery Communications LLC 1.90%	EUR	450,000	441,816	0.36		unitic -		30,114,612	24.55
19/03/2027 Dow Chemical Co. (The) 1.13%	EUR	288,000	260,134	0.21	Total investments in Corporate Debt Sec	urīties		121,469,004	99.03
15/03/2032 Dow Chemical Co. (The) 1.88%	EUR	200,000	152,026	0.12	Total Bonds			121,469,004	99.03
15/03/2040 Duke Energy Corp. 3.85% 15/06/2034	EUR EUR	173,000 226,000	113,673 208,145	0.09 0.17					
Eli Lilly & Co. 2.13% 03/06/2030	EUR	333,000	304,749	0.25					

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value EUR	% of Net Assets
Class GBP Hedged (	(acc)*						
EUR	91,787	GBP	79,027	03/01/2023	Bank of America Merrill Lynch	2,715	-
EUR	28,270	GBP	24,914		Bank of America Merrill Lynch	224	-
EUR	70,717	GBP	61,380	03/01/2023		1,536	-
EUR	79,135	GBP	69,269	03/01/2023		1,062	-
EUR	145,031	GBP	126,795		Morgan Stanley	2,120	-
EUR	1,538	GBP	1,345		Morgan Stanley	23	-
EUR EUR	111,354 84,734	GBP GBP	98,240 73,819	02/02/2023	Morgan Stanley	768 1,532	-
EUR	16,743,195	GBP	14,784,829		Standard Chartered	79,182	0.07
	ain on Forward Currency Contra			03/01/2023	Standard Chartered	89,162	0.07
	,		-,				
Class GBP Hedged (							
GBP	161,866	EUR	185,548		BNP Paribas	(3,108)	-
GBP	411,959	EUR	477,698		BNP Paribas	(13,378)	(0.01)
GBP	374	EUR	432	03/01/2023		(11)	-
GBP	34,730	EUR	40,022	03/01/2023		(878)	(0.20)
GBP GBP	14,206,232 60,134	EUR EUR	16,474,535 67,785	03/01/2023 02/02/2023		(462,660) (94)	(0.38)
GBP	47,998	EUR	55,581		Morgan Stanley	(1,482)	_
GBP	49,829	EUR	57,878		Morgan Stanley	(1,716)	_
GBP	65,293	EUR	75,706		Morgan Stanley	(2,114)	-
GBP	97,085	EUR	112,927	03/01/2023		(3,502)	(0.01)
GBP	35,641	EUR	41,395		Standard Chartered	(1,223)	-
GBP	14,784,829	EUR	16,720,911		Standard Chartered	(77,945)	(0.07)
GBP	85,456	EUR	98,849	03/01/2023	State Street	(2,531)	
Total unrealised lo	ss on Forward Currency Contrac	ts (31 December 2021: (0.00)	%) <sup>1</sup>			(570,642)	(0.47)
*Contracts entered	into for share class currency hed	lging purpose.					
						Fair Value EUR	% of Net Assets
Total financial assa	to at fair value through profit as 1	occ				121 550 177	00.10
	ts at fair value through profit or l lities at fair value through profit (					121,558,166 (570,642)	99.10 (0.47)
Cash	inies at iaii vaiue tiilougii profit (	לכטו וע				(570,642) 250,499	0.20
Other assets and lia	ahilities					1,419,227	1.17
		ble participating charge					
net asset value att	ributable to holders of redeema	ible participating snares				122,657,250	
							% of Total
Analysis of total as	ssets (Unaudited)						Assets
	ties and money market instrume						95.94
	ties and money market instrume	nts dealt in on another regulat	ed market				0.93
OTC financial deriva	ative instruments						0.07
Other assets							3.06
Total Assets							100.00

<sup>&</sup>lt;sup>1</sup>Prior year percentage of net asset value rounds to 0.00%.

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Bonds					Netherlands (31 December 2021: 1.19%)				
Asset-Backed Securities (31 December	2021: 12.64%	6)			Globaldrive Auto Receivables 2021-A BV 'A', FRN 2.45% 20/02/2029	EUR	1,235,238	1,238,578	0.11
Cayman Islands (31 December 2021: 5.82	2%)				Hill FL 2022-1 BV 'A', FRN 2.39% 18/05/2030	EUR	3,000,000	2,998,386	0.25
Barings CLO Ltd. 2013-I 'AR', FRN 5.04% 20/01/2028	USD	4,305,823	4,004,680	0.34	SAECURE 16 BV 'A', FRN 2.01% 30/10/2091	EUR	1,392,420	1,391,132	0.12
CBAM 2017-1 Ltd. 'A1', FRN 5.49% 20/07/2030	USD	1,495,115	1,386,123	0.12	Netherlands total		-	5,628,096	0.48
CIFC Funding Ltd. 'A1', FRN 5.04% 20/01/2028	USD	1,708,724	1,589,474	0.13	Total investments in Asset-Backed Secu	ırities	-	89,761,686	7.59
LCM 26 Ltd. 'A1', FRN 5.31% 20/01/2031	USD	2,750,000	2,541,590	0.21		2024 70 2	=======================================		
Magnetite VII Ltd. 'A1R2', FRN 4.88% 15/01/2028	USD	9,963,588	9,216,587	0.78	Corporate Debt Securities (31 Decembe Australia (31 December 2021: 1.74%)	r 2021: 79.3	3%)		
Magnetite VIII Ltd. 'AR2', FRN 5.06% 15/04/2031	USD	2,970,193	2,744,439	0.23	Agricultural Bank of China Ltd., Sydney Branch 0.00% 23/02/2023	EUR	6,000,000	5,983,905	0.51
Magnetite XVI Ltd. 2015-16A, 'AR', FRN 4.99% 18/01/2028	USD	2,186,569	2,033,586	0.17	Agricultural Bank of China Ltd., Sydney Branch 0.00% 28/02/2023	EUR	6,000,000	5,982,201	0.51
Magnetite XVI Ltd. 2015-16X, 'AR', FRN 4.99% 18/01/2028	USD	1,045,909	972,732	0.08	Agricultural Bank of China Ltd., Sydney Branch 0.00% 01/03/2023	EUR	6,000,000	5,981,739	0.50
Sound Point CLO XVIII Ltd. 'A1', FRN 5.36% 21/01/2031	USD	3,042,000	2,793,951	0.24	Macquarie Bank Ltd., FRN 2.36% 20/10/2023		5.000.000		0.42
Symphony CLO XIX Ltd. 'A', FRN 5.04% 16/04/2031		1,500,000	1.382.287	0.12	Macquarie Bank Ltd. 0.00%	EUR	.,,	5,021,860	
Cayman Islands total	435	-	28,665,449	2.42	18/12/2023 Westpac Banking Corp. 0.75%	EUR	4,000,000	3,875,117	0.33
France (31 December 2021: 2.52%)		-			17/10/2023	EUR	3,893,000	3,830,362	0.32
Auto ABS French Leases 2021 FCT 'A', FRN 2.60% 29/06/2033	EUR	5,725,995	5,718,803	0.48	Australia total			30,675,184	2.59
BPCE Home Loans 2021-G FCT 'A', FRN 2.31% 31/10/2055			6.920.920	0.59	Belgium (31 December 2021: 0.45%) Belgium Euro Commercial Paper				
BPCE Home Loans FCT 2018 'A', FRN	EUR	6,891,864	., .,		0.00% 20/01/2023 Bridgestone Europe NV/SA 0.00%	EUR	15,000,000	14,982,759	1.27
2.06% 31/10/2053 BPCE Home Loans FCT 2020 'A', FRN	EUR	258,020	257,991	0.02	25/01/2023 Sumitomo Mitsui Banking Corp.,	EUR	8,000,000	7,987,625	0.68
2.26% 31/10/2054 Bumper FR 2022-1 'A', FRN 2.59%	EUR	1,722,153	1,726,481	0.15	Bruessel Branch 0.00% 04/01/2023 Sumitomo Mitsui Banking Corp.,	EUR	12,000,000	11,996,626	1.01
27/04/2032 FCT Bavarian Sky French Auto Leases 4	EUR	5,000,000	5,001,785	0.42	Bruessel Branch 0.00% 10/01/2023	EUR	12,000,000	11,992,580	1.01
'A', FRN 2.45% 20/04/2029 Purple Master Credit Cards 'A', FRN	EUR	1,549,465	1,549,829	0.13	Sumitomo Mitsui Banking Corp., Bruessel Branch 0.00% 06/02/2023	EUR	12,000,000	11,977,821	1.01
2.59% 25/05/2034	EUR	4,000,000	3,999,828	0.34	Sumitomo Mitsui Banking Corp., Bruessel Branch 0.00% 21/02/2023	EUR	12,000,000	11,962,873	1.01
France total			25,175,637	2.13	Belgium total		-	70,900,284	5.99
Germany (31 December 2021: 0.43%) Red & Black Auto Germany 8 UG 'A',		-			Bermuda (31 December 2021: 0.16%)				
FRN 2.39% 15/09/2030	EUR	3,148,598	3,159,152	0.27	Triton Container International Ltd. 0.80% 01/08/2023	USD	2,000,000	1,808,461	0.15
Germany total			3,159,152	0.27	Bermuda total		-	1,808,461	0.15
Ireland (31 December 2021: 0.45%) Madison Park Euro Funding XIV DAC		-			Canada (31 December 2021: 3.14%)		-		
'A1R', FRN 2.18% 15/07/2032 Palmer Square European Loan Funding	EUR	5,000,000	4,832,190	0.41	Bank of Nova Scotia (The) 2.38% 01/05/2023	CAD	4,500,000	3,084,313	0.26
2022-1 DAC 'A', FRN 2.10% 15/10/2031	EUR	3,911,635	3,785,758	0.32	Bank of Nova Scotia (The), FRN 2.39% 01/02/2024	EUR	7,500,000	7,540,800	0.64
Ireland total			8,617,948	0.73	Bell Telephone Co. of Canada or Bell Canada (The) 4.70% 11/09/2023	CAD	4,000,000	2,758,353	0.23
Luxembourg (31 December 2021: 2.23%, Bavarian Sky SA 'A', FRN 2.45%	)				Element Fleet Management Corp. 1.60% 06/04/2024	USD	850,000	754,739	0.07
20/05/2027 Bavarian Sky SA 'A', FRN 2.45%	EUR	553,410	553,834	0.05	John Deere Canada Funding, Inc. 3.02% 13/07/2023	CAD	4,641,000	3,173,615	0.27
20/07/2029	EUR	3,259,115	3,262,811	0.27	Royal Bank of Canada 2.95% 01/05/2023	CAD	4,500,000	3,092,924	0.26
Compartment VCL 31 'A', FRN 2.50% 21/09/2026	EUR	487,304	487,592	0.04	Royal Bank of Canada 0.13% 23/07/2024	EUR	1,000,000	953,100	0.08
Compartment VCL 32 'A', FRN 2.50% 21/01/2027	EUR	342,643	343,140	0.03	Toronto-Dominion Bank (The), FRN 4.18% 14/04/2023			3,184,297	0.27
Compartment VCL 33 'A', FRN 2.50% 21/04/2027	EUR	1,059,873	1,061,680	0.09	Toronto-Dominion Bank (The) 0.00%	AUD	5,000,000		
Compartment VCL 35 'A', FRN 2.50% 21/01/2028	EUR	2,009,233	2,014,277	0.17	15/12/2023 Toyota Credit Canada, Inc. 3.04%	EUR	12,000,000	11,625,376	0.98
FACT SA 'A', FRN 2.25% 20/11/2025 PBD Germany Auto Lease Master SA -	EUR	326,478	326,462	0.03	12/07/2023	CAD	4,500,000	3,078,003	0.26
Compartment 2021-1 'A', FRN 2.59% 26/11/2030	EUR	6,718,495	6,714,854	0.57	Canada total			39,245,520	3.32
Silver Arrow SA Compartment 11 'A', FRN 2.39% 15/02/2027	EUR	425,162	425,533	0.03	Cayman Islands (31 December 2021: 1.139 CK Hutchison Finance 16 Ltd. 1.25%	6)			
Silver Arrow SA Compartment 12 'A',					06/04/2023	EUR	6,280,000	6,250,798	0.53
FRN 2.39% 15/09/2027 Silver Arrow SA Compartment 14 'A',	EUR	667,472	668,213	0.06	Cayman Islands total			6,250,798	0.53
FRN 2.39% 15/06/2029	EUR	2,649,348	2,657,008	0.22	Finland (31 December 2021: 0.51%) OP Corporate Bank plc 0.00%				
Luxembourg total		-	18,515,404	1.56	16/02/2023 OP Corporate Bank plc 0.00%	EUR	3,500,000	3,492,285	0.29
					21/02/2023	EUR	9,000,000	8,977,448	0.76
					Finland total			12,469,733	1.05
					France (31 December 2021: 11.18%) Antalis SA 0.00% 10/01/2023	EUR	7,500,000	7,495,200	0.63
					Antalis SA 0.00% 16/01/2023 Bank of China Ltd., Paris Branch	EUR	7,500,000	7,492,584	0.63
					0.00% 21/02/2023	EUR	12,000,000	11,964,934	1.01

## JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments (	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
BNP Paribas SA, FRN 1.79% 19/01/2023	FUD	<b>( 500 000</b>	6,499,155	0.55	Deutsche Telekom International Finance BV 0.63% 03/04/2023	EUD	( 201 000	6,170,045	0.52
BNP Paribas SA, FRN 2.44%	EUR	6,500,000			Hitachi International (Holland) BV	EUR	6,201,000		
22/05/2023 BPCE SA 0.63% 26/09/2023	EUR EUR	1,650,000 3,000,000	1,652,360 2,952,030	0.14 0.25	0.00% 15/03/2023 Iberdrola International BV 0.00%	EUR	8,000,000	7,961,963	0.67
Carrefour Banque 0.00% 13/01/2023	EUR	7,000,000	6,994,634	0.59	16/02/2023	EUR	8,000,000	7,978,888	0.67
Carrefour Banque 0.00% 23/02/2023 Cie de Saint-Gobain 1.75% 03/04/2023	EUR EUR	700,000 3,500,000	697,678 3,492,790	0.06 0.30	Iberdrola International BV 0.00% 24/02/2023	EUR	5,000,000	4,984,308	0.42
Credit Agricole SA 3.75% 24/04/2023	USD	4,000,000	3,731,405	0.32	ING Groep NV 1.00% 20/09/2023	EUR	1,900,000	1,872,640	0.16
Danone SA 0.00% 06/03/2023 Electricite de France SA 0.00%	EUR	1,700,000	1,691,688	0.14	Sunderland Receivables SA 0.00% 02/02/2023	EUR	7.500.000	7,484,998	0.63
10/01/2023	EUR	12,000,000	11,992,771	1.01	Thermo Fisher Scientific Finance I BV,		3 400 000		0.20
Gecina SA 0.00% 21/04/2023	EUR	5,000,000	4,961,918	0.42	FRN 2.00% 18/11/2023 Toyota Motor Finance Netherlands BV,	EUR	3,400,000	3,394,132	0.29
Kering Finance SNC 0.00% 22/02/2023 La Banque Postale SA 0.00%	EUR	3,300,000	3,284,722	0.28	FRN 2.21% 19/01/2023	EUR	5,000,000	5,000,229	0.42
02/01/2023	EUR	8,000,000	7,999,047	0.68	Toyota Motor Finance Netherlands BV, FRN 2.82% 22/02/2024	EUR	5,000,000	5,035,751	0.43
La Banque Postale SA 0.00% 20/02/2023	EUR	15,000,000	14,962,838	1.26	Netherlands total		-		
LMA SA 0.00% 22/03/2023	EUR	6,000,000	5,969,201	0.50			_	72,547,686	6.13
Orange SA 2.50% 01/03/2023 RCI Banque SA 0.25% 08/03/2023	EUR EUR	4,000,000 2,000,000	4,001,592 1,990,200	0.34 0.17	Norway (31 December 2021: 0.45%) DNB Bank ASA 0.60% 25/09/2023	EUR	3,000,000	2,952,906	0.25
RCI Banque SA 0.50% 14/07/2025	EUR	1,000,000	909,089	0.08	DNB Bank ASA 0.05% 14/11/2023	EUR	2,000,000	1,949,040	0.16
Societe Generale SA, FRN 2.43% 06/03/2023	EUR	3,000,000	3,001,110	0.25	Norway total		-	4,901,946	0.41
Societe Generale SA 0.00%							-	4,901,940	0.41
08/03/2023 UNEDIC SA 0.00% 06/01/2023	EUR EUR	4,000,000 6,000,000	3,983,648 5,998,332	0.34 0.51	Saudi Arabia (31 December 2021: 0.22%) Saudi Arabian Oil Co. 1.25%				
UNEDIC SA 0.00% 09/01/2023	EUR	13,000,000	12,994,838	1.10	24/11/2023	USD	2,000,000	1,801,385	0.15
Veolia Environnement SA 0.00% 14/02/2023	EUR	5,000,000	4,985,664	0.42	Saudi Arabia total			1,801,385	0.15
	Luk	3,000,000			South Korea (31 December 2021: 0.12%)		-		
France total			141,699,428	11.98	Kia Corp. 1.00% 16/04/2024	USD	1,500,000	1,323,369	0.11
Germany (31 December 2021: 3.27%) Allianz SE 0.00% 15/02/2023	EUR	8,000,000	7,982,765	0.67	South Korea total			1,323,369	0.11
Deutsche Bahn Finance GmbH 2.00%					Spain (31 December 2021: 1.31%)		-		
20/02/2023 DZ Bank AG Deutsche	EUR	3,150,000	3,149,811	0.27	Banco Bilbao Vizcaya Argentaria SA,	FUD	3,000,000	2.010.224	0.17
Zentral-Genossenschaftsbank					FRN 2.98% 09/09/2023 Banco Santander SA, FRN 2.73%	EUR	2,000,000	2,010,224	0.17
Frankfurt Am Main, FRN 3.14% 28/06/2023	EUR	6,000,000	6,023,580	0.51	05/05/2024	EUR	5,000,000	5,040,050	0.43
SAP SE 0.00% 03/02/2023	EUR	7,500,000	7,485,345	0.63	Ferrovial SA 0.00% 16/02/2023	EUR	7,000,000	6,980,264	0.59
State of Saxony-Anhalt 0.00% 06/02/2023	EUR	11,000,000	10,976,383	0.93	Spain total			14,030,538	1.19
Volkswagen Bank GmbH 0.75% 15/06/2023	ELID	(74,000	667.046	0.06	Sweden (31 December 2021: 1.33%)		=		
Volkswagen Financial Services AG	EUR	674,000	007,040	0.06	Svenska Handelsbanken AB 0.00% 06/02/2023	EUR	12,000,000	11,975,442	1.01
0.00% 12/02/2025 Volkswagen Leasing GmbH 1.00%	EUR	2,000,000	1,835,076	0.16	Svenska Handelsbanken AB 0.00%				
16/02/2023	EUR	400,000	398,970	0.03	15/06/2023	EUR	12,000,000	11,854,943	1.00
Volkswagen Leasing GmbH 0.00% 19/07/2024	EUR	1,000,000	938,710	0.08	Sweden total			23,830,385	2.01
	Luit	1,000,000	<del></del> -		Switzerland (31 December 2021: 3.61%)		-		
Germany total			39,457,686	3.34	Credit Suisse AG, FRN 2.98% 01/09/2023	EUR	5,000,000	4,905,800	0.41
Italy (31 December 2021: 1.91%) Eni SpA 0.00% 30/01/2023	ELID	F 000 000	4,986,364	0.42	Eurofima Europaeische Gesellschaft	2011	3,000,000	.,,	
FCA Bank SpA 0.25% 28/02/2023	EUR EUR	5,000,000 1,762,000	1,756,104	0.42	fuer die Finanzierung von Eisenbahnmaterial 0.00% 13/01/2023	EUR	15,000,000	14,988,973	1.27
FCA Bank SpA 0.50% 18/09/2023	EUR	2,700,000	2,642,981	0.22	UBS AG 0.75% 21/04/2023	EUR	2,000,000	1,990,788	0.17
Italy total			9,385,449	0.79	UBS AG 0.38% 01/06/2023 UBS AG 0.63% 18/12/2023	USD GBP	2,507,000 3,333,000	2,302,035 3,629,969	0.19 0.31
Japan (31 December 2021: 1.06%)						GDI	-		
Asahi Group Holdings Ltd. 0.01%				0.13	Switzerland total		_	27,817,565	2.35
19/04/2024 Asahi Group Holdings Ltd. 0.16%	EUR	1,500,000	1,431,414	0.12	United Kingdom (31 December 2021: 13.66 Amcor UK Finance plc 0.00%	%)			
23/10/2024	EUR	800,000	749,836	0.07	01/03/2023	EUR	5,000,000	4,979,755	0.42
Japan total			2,181,250	0.19	Bank of Montreal, London Branch 0.00% 12/12/2023	EUR	9,500,000	9,235,568	0.78
Luxembourg (31 December 2021: 3.63%)					Coca-Cola Europacific Partners plc				
Bank of China Ltd., Luxembourg					0.50% 05/05/2023 Diageo Finance plc 0.13% 12/10/2023	USD EUR	1,955,000 1,000,000	1,801,947 980,196	0.15 0.08
Branch 0.00% 23/02/2023 Becton Dickinson Euro Finance Sarl	EUR	6,000,000	5,981,598	0.51	GlaxoSmithKline Capital plc 0.00%				
0.63% 04/06/2023	EUR	5,000,000	4,959,350	0.42	21/02/2023 Industrial & Commercial Bank of China	EUR	12,000,000	11,961,069	1.01
Medtronic Global Holdings SCA 0.38% 07/03/2023	EUR	6,000,000	5,977,308	0.50	Ltd., London Branch 0.00%	FUD	10 000 000	0.053.717	0.04
Medtronic Global Holdings SCA 0.00%					13/03/2023 Mitsubishi Corp. Finance plc 0.00%	EUR	10,000,000	9,953,616	0.84
15/03/2023 Purple Protected Asset SA, FRN 1.95%	EUR	2,000,000	1,989,776	0.17	03/02/2023 Mitsubishi Corp. Finance plc 0.00%	EUR	8,000,000	7,985,066	0.68
25/04/2023 Sunderland Receivables SA 0.00%	EUR	20,000,000	19,991,600	1.69	08/03/2023	EUR	12,500,000	12,450,216	1.05
30/01/2023	EUR	6,500,000	6,488,253	0.55	Mizuho Bank Ltd., London Branch 0.00% 11/01/2023	EUR	11,000,000	10,993,025	0.93
Sunderland Receivables SA 0.00% 31/01/2023	EUR	7,000,000	6,986,902	0.59	National Grid Electricity Distribution		11,000,000		
	EUK	7,000,000			East Midlands plc 5.25% 17/01/2023 Nationwide Building Society 1.00%	GBP	825,000	930,014	0.08
Luxembourg total			52,374,787	4.43	24/01/2023	GBP	4,500,000	5,063,511	0.43
Netherlands (31 December 2021: 8.64%)		6 000 000	5 002 E14	0.51	Nationwide Building Society 0.63% 19/04/2023	EUR	6,700,000	6,661,274	0.56
ABB Finance BV 0.00% 19/01/2023 Alliander NV 0.00% 13/01/2023	EUR EUR	6,000,000 15,000,000	5,993,514 14,991,662	0.51 1.27	NatWest Group plc 2.50% 22/03/2023	EUR	3,000,000	3,000,540	0.25
Cooperatieve Rabobank UA 0.75%				0.14	NatWest Markets plc 0.80% 12/08/2024	USD	2,727,000	2,368,332	0.20
29/08/2023	EUR	1,700,000	1,679,556	U.14		030	_,,_,,,,,,	, ,	

## JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments Curre	Quantity/ Nominal ncy Value	Fair Value EUR	% of Net Assets
Norinchukin Bank (The), London Branch 0.00% 26/01/2023	EUR	10,000,000	9,985,227	0.84	South Korea (31 December 2021: 0.07%) Export-Import Bank of Korea 0.00% 21/09/2023	SUD 800 000	781,760	0.07
Norinchukin Bank (The), London Branch 0.00% 03/02/2023	EUR	7,000,000	6,986,322	0.59		EUR 800,000		
Qatar National Bank QPSC, London Branch 0.00% 15/02/2023	EUR	8,000,000	7,978,784	0.68	South Korea total		781,760	0.07
Reckitt Benckiser Treasury Services plc 0.00% 06/01/2023	EUR	11,000,000	10,995,783	0.93	Total investments in Government Debt Securi	ties	86,009,788	7.27
Standard Chartered Bank 0.00% 17/05/2023	EUR	5.000.000	4,950,931	0.42	Total Bonds		050 000 745	81.05
Standard Chartered Bank 0.00%		-,,					958,908,745	61.05
18/12/2023 Tesco Corporate Treasury Services plc	EUR	4,000,000	3,875,153	0.33				
1.38% 24/10/2023 Vodafone Group plc 1.75% 25/08/2023	EUR EUR	4,500,000 3,000,000	4,436,010 2,981,616	0.38 0.25				
United Kingdom total			140,553,955	11.88				
United States (31 December 2021: 16.53%			1.000.013	0.17				
AT&T, Inc. 2.75% 19/05/2023 AT&T, Inc. 1.30% 05/09/2023	EUR EUR	2,000,000 4,000,000	1,998,912 3,956,920	0.17 0.34				
Atmos Energy Corp., FRN 5.10% 09/03/2023	USD	5,000,000	4,682,084	0.40				
Bank of America Corp. 0.75% 26/07/2023			2,969,094	0.25				
Berkshire Hathaway, Inc. 0.63%	EUR	3,000,000						
17/01/2023 Brighthouse Financial Global Funding	EUR	3,000,000	2,998,350	0.25				
0.60% 28/06/2023 Carlisle Cos., Inc. 0.55% 01/09/2023	USD USD	1,833,000 2,027,000	1,675,049 1,837,689	0.14 0.16				
CenterPoint Energy Resources Corp., FRN 5.28% 02/03/2023	USD	2.039.000	1,909,544	0.16				
Danaher Corp. 0.00% 02/03/2023	EUR	5,000,000	4,980,879	0.42				
Dominion Energy, Inc. 2.45% 15/01/2023	USD	750,000	702,008	0.06				
Fidelity National Information Services, Inc. 0.75% 21/05/2023	EUR	5,500,000	5,457,364	0.46				
Fiserv, Inc. 0.00% 23/02/2023 General Motors Financial Co., Inc.	EUR	6,500,000	6,475,635	0.55				
1.05% 08/03/2024 General Motors Financial Co., Inc.	USD	1,150,000	1,023,559	0.09				
2.20% 01/04/2024 Goldman Sachs Group, Inc. (The), FRN	EUR	2,458,000	2,408,668	0.20				
2.61% 30/04/2024 Humana, Inc. 0.65% 03/08/2023	EUR USD	5,000,000 1,510,000	5,000,230 1,378,319	0.42 0.12				
Hyundai Capital America 1.25%								
18/09/2023 Komatsu Finance America, Inc. 0.85%	USD	3,000,000	2,724,196	0.23				
09/09/2023 Martin Marietta Materials, Inc. 0.65%	USD	1,600,000	1,454,393	0.12				
15/07/2023 McDonald's Corp. 2.00% 01/06/2023	USD EUR	1,356,000 5,700,000	1,237,760 5,687,004	0.11 0.48				
Metropolitan Life Global Funding I 2.38% 11/01/2023	EUR	5,000,000	5,001,690	0.42				
Morgan Stanley 1.88% 30/03/2023 Penske Truck Leasing Co. LP / PTL	EUR	774,000	772,670	0.07				
Finance Corp. 4.25% 17/01/2023	USD	1,000,000	936,693	0.08				
Prologis Euro Finance LLC, FRN 1.93% 08/02/2024	EUR	1,000,000	998,170	0.08				
Protective Life Global Funding 0.78% 05/07/2024	USD	2,727,000	2,383,053	0.20				
Realty Income Corp. 0.00% 17/01/2023	EUR	5,000,000	4,982,197	0.42				
Realty Income Corp. 0.00% 23/01/2023	EUR	2,500,000	2,495,121	0.21				
US Bancorp 0.85% 07/06/2024 Verizon Communications, Inc. 0.75%	EUR	2,000,000	1,931,066	0.16				
22/03/2024 VF Corp. 0.63% 20/09/2023	USD	2,792,000	2,483,318	0.21				
VMware, Inc. 0.60% 15/08/2023	EUR USD	4,000,000 3,735,000	3,932,120 3,408,107	0.33 0.29				
United States total			89,881,862	7.60				
Total investments in Corporate Debt Se	curities		783,137,271	66.19				
Government Debt Securities (31 Decem	ber 2021: 1.8	84%)						
Japan (31 December 2021: 1.77%)								
Japan Treasury Discount Bill 0.00% 06/01/2023	JPY 2	,000,000,000	14,203,329	1.20				
Japan Treasury Discount Bill 0.00% 20/01/2023	JPY 3	,000,000,000	21,306,849	1.80				
Japan Treasury Discount Bill 0.00% 23/01/2023		3,500,000,000	24,858,633	2.10				
Japan Treasury Discount Bill 0.00% 30/01/2023		3,500,000,000	24,859,217	2.10				
Japan total		,	85,228,028	7.20				

#### JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value EUR	% of Net Assets
CAD	11,136,840	EUR	7,663,587	04/01/2023	Morgan Stanley	37,866	-
EUR	3,052,746	AUD	4,711,349	04/01/2023	State Street	59,070	0.01
EUR	2,973,047	AUD	4,669,852	03/02/2023	State Street	8,291	-
EUR	28,137,420	CAD	39,518,725	04/01/2023	Citibank NA	809,057	0.07
EUR	15,316,436	CAD	22,176,224	03/02/2023	Goldman Sachs	12,124	-
EUR	9,599,279	GBP	8,511,489	03/02/2023	Bank of America Merrill Lynch	18,488	-
EUR	14,613,049	GBP	12,628,988	04/01/2023	HSBC	378,888	0.03
EUR	72,818,390	USD	77,850,323	03/02/2023	Bank of America Merrill Lynch	32,849	-
EUR	80,991,569	USD	84,233,386	04/01/2023	Toronto-Dominion Bank	2,065,932	0.18
Total unrealised	gain on Forward Currency Contracts (	31 December 2021: 0.12%)				3,422,565	0.29
AUD	41,497	EUR	26,940	04/01/2023	Morgan Stanley	(572)	-
CAD	119,902	EUR	85,395	04/01/2023	Morgan Stanley	(2,479)	-
CAD	6,085,759	EUR	4,237,425	04/01/2023	RBC	(28,943)	-
EUR	48,601,412	JPY	7,003,390,500	04/01/2023	Bank of America Merrill Lynch	(1,132,112)	(0.10)
EUR	49,330,803	JPY	7,003,390,500	03/02/2023	BNP Paribas	(502,440)	(0.04)
EUR	13,781,807	JPY	2,000,636,000	06/01/2023	Goldman Sachs	(427,249)	(0.04)
EUR	20,710,395	JPY	3,001,104,000	20/01/2023	Goldman Sachs	(624,085)	(0.05)
GBP	1,068,750	EUR	1,246,580	04/01/2023	Morgan Stanley	(41,989)	-
GBP	3,048,750	EUR	3,527,840	04/01/2023	Morgan Stanley	(91,587)	(0.01)
USD	3,000,000	EUR	2,837,777	04/01/2023	Bank of America Merrill Lynch	(26,815)	-
USD	3,383,063	EUR	3,181,037	04/01/2023	Morgan Stanley	(11,149)	
Total unrealised	loss on Forward Currency Contracts (3	31 December 2021: (0.18)%)				(2,889,420)	(0.24)

			Fair Value EUR	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash			962,331,310 (2,889,420) 22,609,335	81.34 (0.24) 1.91
Cash equivalents  Undertaking for collective investment schemes (31 December 2021: 6.19%)	Currency	Quantity/ Nominal Value		
Time Deposits (31 December 2021: 0.00%)	EUR	10,844	106,839,582	9.03
BRED Banque Populaire SA, 1.88%, 03/01/2023	EUR	100,000,000	100,000,000	8.45
Total Cash equivalents			206,839,582	17.48
Other assets and liabilities			(5,751,501)	(0.49)
Net asset value attributable to holders of redeemable participating shares			1,183,139,306	100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Transferable securities and money market instruments other than those admitted to an official stock exchange listing or Collective investment schemes	dealt in on another regulated	market		23.96 5.31 50.76 8.92

 $<sup>^{1}\!\</sup>mathrm{A}$  related party to the Fund.

Other assets

Total Assets

2.42

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Equities (31 December 2021: 99.30%)					FinecoBank Banca Fineco SpA	EUR	116,537	1,808,654	0.57
Belgium (31 December 2021: 0.66%) Anheuser-Busch InBev SA	EUR	13,966	785,867	0.25	Intesa Sanpaolo SpA UniCredit SpA	EUR EUR	217,248 141,436	451,441 1,877,139	0.14 0.60
KBC Group NV	EUR	35,996	2,162,640	0.69	Italy total		-	6,157,731	1.95
Belgium total		-	2,948,507	0.94	Netherlands (31 December 2021: 10.55%)		-		
Denmark (31 December 2021: 4.74%)		-			Adyen NV	EUR	999	1,287,112	0.41
AP Moller - Maersk A/S 'B' Carlsberg A/S 'B'	DKK DKK	136 19,146	285,664 2,376,889	0.09 0.75	Akzo Nobel NV Argenx SE	EUR EUR	8,842 843	553,156 293,617	0.18 0.09
DSV A/S	DKK	5,552	818,640	0.26	ASML Holding NV	EUR	18,975	9,559,605	3.03
Genmab A/S Novo Nordisk A/S 'B'	DKK DKK	4,405 76,865	1,742,111 9,695,417	0.55 3.08	Heineken NV ING Groep NV	EUR EUR	5,613 69,743	493,270 794,233	0.16 0.25
Orsted A/S	DKK	21,539	1,828,506	0.58	Koninklijke Ahold Delhaize NV	EUR	70,121	1,882,048	0.60
Vestas Wind Systems A/S	DKK	50,974	1,385,320	0.44	Koninklijke DSM NV Koninklijke KPN NV	EUR EUR	23,874 687,997	2,728,798 1,988,311	0.86 0.63
Denmark total			18,132,547	5.75	NN Group NV Prosus NV	EUR EUR	49,735 28,211	1,897,888 1,818,199	0.60 0.58
Finland (31 December 2021: 2.11%)	5115	-	500.010	0.10	Stellantis NV	EUR	217,809	2,890,325	0.92
Elisa OYJ Kone OYJ 'B'	EUR EUR	12,111 35,042	599,010 1,692,528	0.19 0.54	Universal Music Group NV Wolters Kluwer NV	EUR EUR	27,758 20,120	624,833 1,966,931	0.20 0.62
Nokia OYJ	EUR	235,006	1,016,871	0.32		Luik	20,120		
Nordea Bank Abp	SEK	277,767 -	2,789,607	0.88	Netherlands total		_	28,778,326	9.13
Finland total		_	6,098,016	1.93	Spain (31 December 2021: 3.98%) Banco Bilbao Vizcaya Argentaria SA	EUR	543,751	3,063,493	0.97
France (31 December 2021: 18.24%) Air Liquide SA	EUR	35,075	4,643,930	1.47	Banco Santander SA	EUR	284,691	797,847	0.26
AXA SA	EUR	60,679	1,580,991	0.50	Cellnex Telecom SA Iberdrola SA	EUR EUR	37,918 386,755	1,172,425 4,227,232	0.37 1.34
BNP Paribas SA Capgemini SE	EUR EUR	57,095 20,096	3,040,309 3,133,971	0.96 0.99	Industria de Diseno Textil SA	EUR	76,439	1,899,509	0.60
Cie de Saint-Gobain	EUR	10,424	475,856	0.15	Spain total			11,160,506	3.54
Cie Generale des Etablissements Michelin SCA	EUR	49,039	1,274,278	0.40	Sweden (31 December 2021: 3.63%)		-		
Dassault Systemes SE	EUR	34,136	1,143,385	0.36	Assa Abloy AB 'B' Atlas Copco AB 'A'	SEK SEK	45,274 337,585	910,755 3,737,043	0.29 1.18
Engie SA EssilorLuxottica SA	EUR EUR	66,801 5,509	894,332 932,123	0.28 0.30	Boliden AB	SEK	41,093	1,445,803	0.46
Hermes International	EUR	645	932,025	0.30	Investor AB 'B' Nibe Industrier AB 'B'	SEK SEK	57,259 28,105	970,913 245,409	0.31 0.08
Kering SA Legrand SA	EUR EUR	4,570 17,829	2,173,035 1,333,966	0.69 0.42	Sandvik AB	SEK	57,146	968,174	0.30
L'Oreal SA	EUR	15,159	5,057,042	1.60	SKF AB 'B'	SEK	92,379	1,322,108	0.42
LVMH Moet Hennessy Louis Vuitton SE Pernod Ricard SA	EUR EUR	11,994 14,382	8,154,721 2,642,692	2.59 0.84	Sweden total			9,600,205	3.04
Sanofi	EUR	32,586	2,927,526	0.93	Switzerland (31 December 2021: 17.43%)		-		
Schneider Electric SE Societe Generale SA	EUR EUR	37,165 60,547	4,858,209 1,421,644	1.54 0.45	ABB Ltd. Adecco Group AG	CHF CHF	60,028 12,391	1,705,846 382,238	0.54 0.12
TotalEnergies SE	EUR	103,772	6,086,228	1.93	Alcon, Inc.	CHF	10,727	686,367	0.22
Veolia Environnement SA Vinci SA	EUR EUR	104,539 43,749	2,508,936 4,081,344	0.80 1.30	Cie Financiere Richemont SA Givaudan SA	CHF CHF	11,412 256	1,385,732 734,488	0.44 0.23
France total		-	F0 207 F42	10.00	Glencore plc	GBP	273,414	1,702,306	0.54
		-	59,296,543	18.80	Julius Baer Group Ltd. Lonza Group AG	CHF CHF	17,278 7,896	942,449 3,623,259	0.30 1.15
Germany (31 December 2021: 14.42%) adidas AG	EUR	15,170	1,933,568	0.61	Nestle SA	CHF	7,896 113,121	12,274,197	3.89
Allianz SE BASF SE	EUR	24,638	4,949,774 959,299	1.57 0.30	Novartis AG Partners Group Holding AG	CHF CHF	89,773 455	7,599,732 376,379	2.41 0.12
Covestro AG	EUR EUR	20,679 38,644	1,412,438	0.30	Roche Holding AG	CHF	31,605	9,298,227	2.95
Delivery Hero SE Deutsche Boerse AG	EUR	16,985	760,588 743,408	0.24 0.24	Schindler Holding AG SGS SA	CHF CHF	3,818 898	672,409 1,955,298	0.21 0.62
Deutsche Post AG	EUR EUR	4,606 77,414	2,723,425	0.86	Sika AG	CHF	14,779	3,318,249	1.05
Deutsche Telekom AG Henkel AG & Co. KGaA, Preference	EUR	228,413	4,257,162 226,140	1.35 0.07	Straumann Holding AG UBS Group AG	CHF CHF	3,822 82,774	408,745 1,442,271	0.13 0.46
Infineon Technologies AG	EUR EUR	3,478 78,628	2,235,394	0.07	Zurich Insurance Group AG	CHF	7,245	3,245,290	1.03
Mercedes-Benz Group AG Merck KGaA	EUR EUR	12,895 10,258	791,753 1,855,672	0.25 0.59	Switzerland total		-	51,753,482	16.41
MTU Aero Engines AG	EUR	3,426	692,737	0.22	United Kingdom (31 December 2021: 19.22%	<u>(</u>	-		
Muenchener Rueckversicherungs-Gesellschaft AG in					3i Group plc	GBP	179,408	2,712,663	0.86
Muenchen	EUR	12,724	3,868,096	1.23	Anglo American plc Ashtead Group plc	GBP GBP	24,988 6,072	911,529 323,026	0.29 0.10
RWE AG SAP SE	EUR EUR	78,937 29,667	3,282,990 2,859,602	1.04 0.91	AstraZeneca plc	GBP	65,593	8,293,470	2.63
Siemens AG	EUR	33,000	4,278,120	1.36	Barclays plc Berkeley Group Holdings plc	GBP GBP	1,669,727 34,839	2,983,272 1,481,548	0.95 0.47
Symrise AG 'A' Volkswagen AG, Preference	EUR EUR	10,769 17,191	1,094,669 2,001,376	0.35 0.64	BP plc	GBP	1,127,439	6,034,740	1.91
Vonovia SE	EUR	26,143	575,669	0.18	Compass Group plc Diageo plc	GBP GBP	39,496 132,110	853,595 5,434,904	0.27 1.72
Zalando SE	EUR	24,200 -	801,262	0.25	Direct Line Insurance Group plc	GBP	281,845	703,000	0.22
Germany total		_	42,303,142	13.42	GSK plc Haleon plc	GBP GBP	100,934 121,219	1,635,456 447,246	0.52 0.14
Ireland (31 December 2021: 1.76%) CRH plc	EUR	10,052	372,024	0.12	HSBC Holdings plc InterContinental Hotels Group plc	GBP	465,691	2,706,813 2,378,922	0.86 0.75
DCC plc	GBP	22,026	1,012,883	0.32	Intertek Group plc	GBP GBP	44,491 27,535	1,251,942	0.40
Experian plc Kingspan Group plc	GBP EUR	11,962 24,827	379,260 1,255,750	0.12 0.40	Lloyds Banking Group plc London Stock Exchange Group plc	GBP GBP	5,307,929 5,737	2,716,689 461,427	0.86 0.15
	LUK	∠ <del>~,</del> 0∠/ -			Next plc	GBP	17,548	1,148,333	0.36
Ireland total		=	3,019,917	0.96	Prudential plc Reckitt Benckiser Group plc	GBP GBP	93,503 50,182	1,188,243 3,254,477	0.38 1.03
Italy (31 December 2021: 1.48%) Enel SpA	EUR	273,808	1,377,254	0.44	RELX plc	GBP	138,931	3,582,767	1.14
Ferrari NV	EUR	3,213	643,243	0.20	Rio Tinto plc Shell plc	GBP GBP	70,031 326,216	4,576,483 8,552,209	1.45 2.71
					•		-,		-

## JPMorgan ETFs (Ireland) ICAV - Europe Research Enhanced Index Equity (ESG) UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

 $^{1}\mathrm{A}$  related party to the Fund.

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
SSE plc	GBP	88,127	1,700,498	0.54
Standard Chartered plc	GBP	390,692	2,740,737	0.87
Taylor Wimpey plc	GBP	600,480	687,970	0.22
Tesco plc	GBP	404,297	1,021,644	0.32
Unilever plc	GBP	75,964	3,580,595	1.14
United Kingdom total		-	73,364,198	23.26
Total investments in Equities			312,613,120	99.13

			Fair Value EUR	% of Net Assets
Total financial assets at fair value through profit or loss Cash			312,613,120 124,376	99.13 0.04
Cash equivalents  Undertaking for collective investment schemes (31 December 2021: 0.61%)	Currency	Quantity/ Nominal Value		
JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund - Class X (flex dist.) <sup>1</sup>		206	2,027,043	0.64
Total Cash equivalents Other assets and liabilities			2,027,043	0.64
Net asset value attributable to holders of redeemable participating shares			577,648 315,342,187	100.00
				% of
Analysis of total assets (Unaudited)				Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Collective investment schemes Other assets  Total Assets				99.09 0.64 0.27 100.00

Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value EUR	% of Net Assets
Equities					Vonovia SE Zalando SE	EUR EUR	11,631 8,177	256,115 270,740	0.27 0.29
Austria Erste Group Bank AG	EUR	14,065	420,544	0.45	Germany total	EUR	0,177		
Austria total		-	420,544	0.45	Ireland		-	24,304,913	25.88
Belgium		-			CRH plc	EUR	12,747	471,767	0.50
Anheuser-Busch InBev SA	EUR	13,987	787,049 924,391	0.84 0.98	Flutter Entertainment plc Kerry Group plc 'A'	EUR EUR	1,848 2,714	236,174 228,627	0.25 0.25
KBC Group NV UCB SA	EUR EUR	15,386 2,406	176,985	0.98	Kingspan Group plc	EUR	12,034	608,680	0.65
Belgium total		-	1,888,425	2.01	Ireland total		-	1,545,248	1.65
Finland Elisa OYJ	ELID	F 21.4	257,885	0.28	<i>Italy</i> Assicurazioni Generali SpA	EUR	12,054	200,277	0.21
Kone OYJ 'B'	EUR EUR	5,214 19,481	940,932	1.00	Davide Campari-Milano NV	EUR	35,788	339,414	0.36
Neste OYJ	EUR	4,717	202,925	0.22	Enel SpA ENI SpA	EUR EUR	201,263 30,674	1,012,353 407,535	1.08 0.43
Nokia OYJ Sampo OYJ 'A'	EUR EUR	112,362 4,632	486,191 226,134	0.52 0.24	Ferrari NV	EUR	2,476	495,695	0.53
UPM-Kymmene OYJ	EUR	3,759	131,302	0.14	FinecoBank Banca Fineco SpA	EUR	45,444	705,291	0.75
Wartsila OYJ Abp	EUR	29,059	228,636	0.24	Intesa Sanpaolo SpA Prysmian SpA	EUR EUR	209,682	435,719 168,829	0.46 0.18
Finland total		-	2,474,005	2.64	UniCredit SpA	EUR	4,871 74,574	989,746	1.06
France Accor SA	EUR	8,348	194,926	0.21	Italy total			4,754,859	5.06
Air Liquide SA	EUR	16,965	2,246,166	2.39	Luxembourg			227 520	0.35
Alstom SA	EUR	13,063	298,098	0.32	ArcelorMittal SA Eurofins Scientific SE	EUR EUR	13,287 1,769	326,528 118,629	0.35 0.12
AXA SA BioMerieux	EUR EUR	40,789 4,479	1,062,757 438,584	1.13 0.47		EUK	1,709		0.12
BNP Paribas SA	EUR	30,016	1,598,352	1.70	Luxembourg total			445,157	0.47
Capgemini SE	EUR	7,888	1,230,134	1.31	Netherlands				
Cie de Saint-Gobain Cie Generale des Etablissements Michelin	EUR	8,266	377,343	0.40	Adyen NV	EUR	463	596,529	0.64
SCA	EUR	18,147	471,550	0.50	Akzo Nobel NV Argenx SE	EUR EUR	5,768 999	360,846 347,952	0.38 0.37
Credit Agricole SA	EUR	7,392	72,671	0.08	ASM International NV	EUR	385	90,725	0.10
Danone SA Dassault Systemes SE	EUR EUR	7,187 19,480	353,816 652,483	0.38 0.69	ASML Holding NV	EUR	10,111	5,093,922	5.43
Edenred	EUR	4,791	243,766	0.26	Heineken NV ING Groep NV	EUR EUR	10,345 57,194	909,119 651,325	0.97 0.69
Engie SA	EUR	39,612	530,325	0.56	Koninklijke Ahold Delhaize NV	EUR	32,307	867,120	0.92
EssilorLuxottica SA Getlink SE	EUR	6,177	1,045,148 72,823	1.11 0.08	Koninklijke DSM NV	EUR	8,875	1,014,413	1.08
Hermes International	EUR EUR	4,863 542	783,190	0.08	Koninklijke KPN NV Koninklijke Philips NV	EUR	290,232	838,770 242,395	0.89 0.26
Kering SA	EUR	2,252	1,070,826	1.14	NN Group NV	EUR EUR	17,309 18,713	714,088	0.26
Legrand SA	EUR	8,858	662,755	0.71	Prosus NV	EUR	17,540	1,130,453	1.20
L'Oreal SA LVMH Moet Hennessy Louis Vuitton SE	EUR EUR	7,268 6,743	2,424,605 4,584,566	2.58 4.88	QIAGEN NV Stellantis NV	EUR	4,247	199,651	0.21 1.26
Orange SA	EUR	33,305	309,104	0.33	Universal Music Group NV	EUR EUR	88,894 5,327	1,179,090 119,911	0.13
Pernod Ricard SA	EUR	7,575	1,391,906	1.48	Wolters Kluwer NV	EUR	10,367	1,013,478	1.08
Sanofi Sartorius Stedim Biotech	EUR EUR	24,735 462	2,222,192 139,755	2.37 0.15	Netherlands total		-	15 340 707	14.27
Schneider Electric SE	EUR	17,466	2,283,155	2.43				15,369,787	16.37
Societe Generale SA	EUR	28,596	671,434	0.72	Portugal EDP - Energias de Portugal SA	FUD	20.907	185,341	0.20
Teleperformance TotalEnergies SE	EUR EUR	1,079 67,449	240,293 3,955,884	0.26 4.21	EDF - Ellei glas de Foi tugal 3A	EUR	39,807		0.20
Veolia Environnement SA	EUR	40,268	966,432	1.03	Portugal total			185,341	0.20
Vinci SA	EUR	19,292	1,799,751	1.92	Spain		-		
France total			34,394,790	36.63	Amadeus IT Group SA Banco Bilbao Vizcaya Argentaria SA	EUR	5,480	266,054 1,555,671	0.28
Germany					Banco Santander SA	EUR EUR	276,122 283,317	793,996	1.66 0.85
adidas AG	EUR	6,099	777,378	0.83	CaixaBank SA	EUR	24,725	90,790	0.10
Allianz SE	EUR	12,419	2,494,977	2.66	Cellnex Telecom SA Endesa SA	EUR	17,621	544,841 199,470	0.58 0.21
BASF SE Bayerische Motoren Werke AG	EUR EUR	13,986 4,940	648,810 411,897	0.69 0.44	Grifols SA	EUR EUR	11,311 6,269	67,517	0.21
Brenntag SE	EUR	7,960	475,371	0.44	Iberdrola SA	EUR	200,858	2,195,378	2.34
Carl Zeiss Meditec AG	EUR	2,891	340,849	0.36	Industria de Diseno Textil SA	EUR	34,944	868,358	0.92
Covestro AG	EUR	12,141	443,754	0.47	Repsol SA	EUR	7,882	117,048	0.12
Delivery Hero SE Deutsche Boerse AG	EUR EUR	6,253 5,632	280,009 909,005	0.30 0.97	Spain total			6,699,123	7.13
Deutsche Post AG	EUR	37,861	1,331,950	1.42	Switzerland				
Deutsche Telekom AG E.ON SE	EUR	109,440	2,039,743	2.17	STMicroelectronics NV	EUR	8,736	288,244	0.31
Fresenius Medical Care AG & Co. KGaA	EUR EUR	26,001 4,324	242,693 132,185	0.26 0.14	Switzerland total			288,244	0.31
Fresenius SE & Co. KGaA	EUR	8,580	225,225	0.24			-	200,244	0.31
Infineon Technologies AG	EUR	40,618	1,154,770	1.23	United Kingdom CNH Industrial NV	EUR	22,095	330,652	0.35
Mercedes-Benz Group AG Merck KGaA	EUR EUR	15,462 5,633	949,367 1,019,010	1.01 1.09	Coca-Cola Europacific Partners plc	USD	2,327	120,618	0.13
MTU Aero Engines AG Muenchener	EUR	2,603	526,327	0.56	United Kingdom total		-	451,270	0.48
Rueckversicherungs-Gesellschaft AG in Muenchen	EUR	4,586	1,394,144	1.48	Total investments in Equities		-	93,221,706	99.28
RWE AG	EUR	31,924	1,327,719	1.41			=		<u> </u>
SAP SE Sartorius AG, Preference	EUR	20,250	1,951,897 171,771	2.08 0.18					
Siemens AG	EUR EUR	465 20,748	2,689,771	2.86					
Siemens Healthineers AG	EUR	6,026	281,595	0.30					
Symrise AG 'A'	EUR	4,704	478,162	0.51					
Volkswagen AG, Preference	EUR	9,274	1,079,679	1.15					

#### JPMorgan ETFs (Ireland) ICAV - Eurozone Research Enhanced Index Equity (ESG) UCITS ETF

Schedule of Investments (continued)

			Fair Value EUR	% of Net Assets
Total financial assets at fair value through profit or loss Cash			93,221,706 50,595	99.28 0.05
Cash equivalents				
	Currency	Quantity/ Nominal Value		
Undertaking for collective investment schemes  JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund - Class X (flex dist.) <sup>1</sup>	EUR	50	495,074	0.53
Total Cash equivalents			495,074	0.53
Other assets and liabilities			133,529	0.14
Net asset value attributable to holders of redeemable participating shares			93,900,904	100.00
				% of Total
Analysis of total assets (Unaudited)				Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Collective investment schemes Other assets				98.87 0.37 0.53 0.23
Total Assets				100.00

<sup>&</sup>lt;sup>1</sup>A related party to the Fund.

Investments	Currency	Quantity/ Nominal Value	Fair Value GBP	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value GBP	% of Net Assets
Bonds Asset-Backed Securities (31 December 2021: 7.15%)				Germany (31 December 2021: 2.93%) DZ Bank AG 0.00% 03/01/2023 FMS Wertmanagement 1.13%	GBP	1,500,000	1,499,507	1.24	
Cayman Islands (31 December 2021: 2.57%	)				07/09/2023	GBP	900,000	883,766	0.73
Barings CLO Ltd. 2013-I 'AR', FRN 5.04% 20/01/2028	USD	329,191	271,642	0.22	Germany total		=	2,383,273	1.97
CBAM 2017-1 Ltd. 'A1', FRN 5.49% 20/07/2030 LCM 26 Ltd. 'A1', FRN 5.31% 20/01/2031	USD USD	498,372 500,000	409,937 409,996	0.34 0.34	Ireland (31 December 2021: 0.00%) GE Capital UK Funding Unlimited Co. 4.13% 13/09/2023	GBP	650,000	645,342	0.53
Magnetite VII Ltd. 'A1R2', FRN 4.88% 15/01/2028	USD	456,208	374,416	0.31	Ireland total		_	645,342	0.53
Magnetite XVI Ltd. 'AR', FRN 4.99% 18/01/2028	USD	364,428	300,710	0.25	Italy (31 December 2021: 0.23%) FCA Bank SpA 0.50% 18/09/2023	EUR	300,000	260,548	0.21
Cayman Islands total		_	1,766,701	1.46	Italy total		_	260,548	0.21
France (31 December 2021: 0.70%) BPCE Home Loans FCT 2020 'A', FRN 2.26% 31/10/2054	EUR	344,431	306,357	0.25	Japan (31 December 2021: 1.78%) Asahi Group Holdings Ltd. 0.01%	5110	-		
Purple Master Credit Cards 'A', FRN 2.59% 25/05/2034	EUR	500,000	443,596	0.37	19/04/2024	EUR	200,000	169,333	0.14
France total		-	749,953	0.62	Japan total		-	169,333	0.14
Luxembourg (31 December 2021: 0.00%) Silver Arrow Compartment Silver Arrow UK 2021-2 'A', FRN 3.72% 20/10/2027	GBP	600,879	599,412	0.49	Jersey (31 December 2021: 1.72%) Heathrow Funding Ltd. 5.23% 15/02/2023	GBP	750,000	749,754	0.62
Luxembourg total	GDP	600,879			Jersey total			749,754	0.62
United Kingdom (31 December 2021: 3.889 Bumper UK 2021-1 Finance plc 'A', FRN	6)	-	599,412	0.49	Netherlands (31 December 2021: 8.78%) BMW International Investment BV 1.88% 11/09/2023	GBP	250,000	246,264	0.20
3.90% 20/12/2030 Gosforth Funding 2018-1 plc 'A2', FRN	GBP	1,256,311	1,253,735	1.04	Mercedes-Benz International Finance BV 2.00% 04/09/2023	GBP	800,000	787,949	0.65
4.00% 25/08/2060	GBP	98,482	98,568	0.08	Deutsche Telekom International Finance BV 1.25% 06/10/2023	GBP	500,000	488,981	0.40
United Kingdom total		1,352,303	1.12	Siemens Financieringsmaatschappij NV 0.88% 05/06/2023	GBP	1,300,000	1,284,046	1.06	
Total investments in Asset-Backed Securities			4,468,369	3.69	Toyota Motor Finance Netherlands BV 1.38% 23/05/2023	GBP	1,125,000	1,113,982	0.92
Corporate Debt Securities (31 December 2021: 66.25%)				Volkswagen Financial Services NV 1.13% 18/09/2023	GBP	1,000,000	975,160	0.81	
Australia (31 December 2021: 2.31%) Australia & New Zealand Banking Group					Volkswagen Financial Services NV 1.63% 10/02/2024	GBP	200,000	191,450	0.16
Ltd. 0.00% 04/01/2023	GBP	1,000,000	999,534	0.83	Netherlands total			5,087,832	4.20
Australia total  Canada (31 December 2021: 6.89%)		-	999,534	0.83	Norway (31 December 2021: 1.31%) DNB Bank ASA 1.38% 12/06/2023	GBP	1,450,000	1,430,843	1.18
Bank of Montreal, FRN 3.28% 16/04/2023	GBP	1,000,000	1,000,140	0.83	Norway total	05.	-	1,430,843	1.18
Bank of Montreal, FRN 4.05% 14/12/2025 Bank of Nova Scotia (The) 2.38%		2,000,000	2,002,240	1.65	Spain (31 December 2021: 0.00%)		_		
01/05/2023 Bank of Nova Scotia (The), FRN 4.44%	CAD	500,000	304,055	0.25	Banco Santander SA 2.75% 12/09/2023 Iberdrola Finanzas SA 7.38% 29/01/2024	GBP GBP	1,100,000 800,000	1,084,858 817,725	0.90 0.67
15/10/2024 Bell Telephone Co. of Canada or Bell	GBP	2,000,000	2,002,410	1.65	Spain total		-	1,902,583	1.57
Canada (The) 4.70% 11/09/2023 Canadian Imperial Bank of Commerce,	CAD	1,000,000	611,824	0.51	Switzerland (31 December 2021: 0.98%) UBS AG 0.75% 21/04/2023	FUD	500.000	441 573	0.37
FRN 3.83% 13/01/2023 Element Fleet Management Corp. 1.60%	GBP	1,000,000	1,000,269	0.83	UBS AG 0.63% 18/12/2023	EUR GBP	667,000	441,572 644,511	0.53
06/04/2024 John Deere Canada Funding, Inc. 3.02%	USD	150,000	118,170	0.10	Switzerland total			1,086,083	0.90
13/07/2023 Royal Bank of Canada 2.95% 01/05/2023 Toronto-Dominion Bank (The), FRN 4.18%	CAD CAD	500,000 500,000	303,354 304,904	0.25 0.25	United Kingdom (31 December 2021: 16.56% Anglian Water Services Financing plc, STEP 6.88% 21/08/2023	6) GBP	1,000,000	1,013,196	0.84
14/04/2023 Toyota Credit Canada, Inc. 3.04%	AUD	1,000,000	565,041	0.47	Barclays Bank UK plc, FRN 3.72% 15/05/2023	GBP	500,000	500,249	0.41
12/07/2023	CAD	500,000	303,433	0.25	Coca-Cola Europacific Partners plc 0.50% 05/05/2023	USD	245,000	200,354	0.17
Canada total Finland (31 December 2021: 1.36%)		-	8,515,840	7.04	Kookmin Bank Co. Ltd., Lodon Branch 0.00% 22/05/2023	GBP	1,000,000	983,462	0.81
Nordea Bank Abp 0.00% 03/02/2023 Nordea Bank Abp 0.00% 02/05/2023 OP Corporate Bank plc 0.00%	GBP GBP	500,000 1,500,000	498,441 1,480,001	0.41 1.22	Lloyds Bank Corporate Markets plc 1.50% 23/06/2023 Lloyds Bank plc, FRN 3.82% 27/03/2023	GBP GBP	1,000,000	985,804 100,017	0.81
16/02/2023	GBP	1,000,000	996,318	0.83	Lloyds Bank plc, FRN 3.82% 16/05/2024 London Power Networks plc 5.13%	GBP	1,000,000	1,002,260	0.83
Finland total		-	2,974,760	2.46	31/03/2023 National Express Group plc 2.50% 11/11/2023	GBP GBP	650,000 1,000,000	650,894 977,500	0.54
France (31 December 2021: 6.95%) Banque Federative du Credit Mutuel SA	CDD	E00.000	400 242	0.41	National Grid Electricity Distribution East Midlands plc 5.25% 17/01/2023	GBP	500,000	500,083	0.41
0.00% 01/02/2023 Banque Federative du Credit Mutuel SA 2.25% 18/12/2023	GBP	500,000	498,343 880,056	0.41	National Grid Electricity Distribution plc 3.63% 06/11/2023	GBP	400,000	395,463	0.33
LVMH Moet Hennessy Louis Vuitton SE	GBP	900,000		1.07	Nationwide Building Society 1.00% 24/01/2023	GBP	1,400,000	1,397,668	1.16
1.00% 11/02/2023 France total	GBP	1,300,000	1,296,513		Nationwide Building Society 0.63% 19/04/2023	EUR	1,000,000	882,103	0.73
		-	2,674,912	2.21	NatWest Markets plc 0.80% 12/08/2024 Nordea Bank Abp, London Branch 0.00%	USD	273,000	210,357	0.17
					02/05/2023 Royal Bank of Canada 0.00% 03/01/2023	GBP GBP	1,500,000 500,000	1,480,927 499,817	1.22 0.41

## JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value GBP	% of Net Assets
Tesco Corporate Treasury Services plc 1.38% 24/10/2023	EUR	500,000	437,307	0.36
UBS AG, London Branch 0.00% 14/04/2023	GBP	500,000	494,734	0.41
United Kingdom total			12,712,195	10.50
United States (31 December 2021: 10.84%) Apple, Inc. 2.51% 19/08/2024	CAD	500,000	296,369	0.25
Brighthouse Financial Global Funding 0.60% 28/06/2023	USD	167,000	135,400	0.11
Charles Schwab Corp. (The) 0.75% 18/03/2024	USD	1,500,000	1,185,485	0.98
General Motors Financial Co., Inc. 1.05% 08/03/2024	USD	230,000	181,627	0.15
Hyundai Capital America 1.25% 18/09/2023	USD	1,000,000	805,664	0.67
Komatsu Finance America, Inc. 0.85% 09/09/2023	USD	300,000	241,947	0.20
Martin Marietta Materials, Inc. 0.65% 15/07/2023	USD	151,000	122,290	0.10
Protective Life Global Funding 0.78% 05/07/2024 US Bancorp 0.85% 07/06/2024	USD EUR	273,000 500,000	211,664 428,325	0.18 0.35
Verizon Communications, Inc. 0.75% 22/03/2024	USD	399,000	314,866	0.26
VMware, Inc. 0.60% 15/08/2023	USD	403,000	326,260	0.27
Wells Fargo & Co. 2.13% 20/12/2023  United States total	GBP	900,000	877,092	0.72
Total investments in Corporate Debt Sec	uritios		5,126,989	4.24
Total livestillents in Corporate Debt Sec	urities		46,719,821	38.60
Government Debt Securities (31 Decemb	er 2021: 1.33	3%)		
Japan (31 December 2021: 1.18%) Development Bank of Japan, Inc. 1.13% 28/04/2023	GBP	1,300,000	1,289,639	1.07
Japan Treasury Discount Bill 0.00% 20/01/2023		300,000,000	1,890,410	1.56
Japan Treasury Discount Bill 0.00% 23/01/2023		300,000,000	1,890,435	1.56
Japan Treasury Discount Bill 0.00% 25/01/2023	JPY	300,000,000	1,890,458	1.56
Japan Treasury Discount Bill 0.00% 30/01/2023	JPY	200,000,000	1,260,335	1.04
Japan total			8,221,277	6.79
Norway (31 December 2021: 0.00%) Kommunalbanken A/S 1.00% 12/12/2024	GBP	1,500,000	1,405,293	1.16
Norway total			1,405,293	1.16
South Korea (31 December 2021: 0.15%) Export-Import Bank of Korea 0.00% 21/09/2023	EUR	200,000	173,400	0.15
South Korea total			173,400	0.15
Total investments in Government Debt S	ecurities		9,799,970	8.10
Total Bonds			60,988,160	50.39

#### JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value GBP	% of Net Assets
AUD	8,353	GBP	4,579	04/01/2023	RBC	130	-
CAD	1,057,558	GBP	636,323	04/01/2023	RBC	12,538	0.01
EUR	337,789	GBP	293,985	04/01/2023	Standard Chartered	5,712	-
GBP	526,254	AUD	932,313	03/02/2023	RBC	416	-
GBP	2,811,857	CAD	4,573,631	04/01/2023	Morgan Stanley	5,722	0.01
GBP	5,783,938	USD	6,949,692	04/01/2023	BNP Paribas	6,490	0.01
Total unrealised g	31,008	0.03					
GBP	527,131	AUD	940,666	04/01/2023		(3,181)	-
GBP	2,154,976	CAD	3,516,073	03/02/2023		(725)	-
GBP	3,652,779	EUR	4,119,613	03/02/2023	Bank of America Merrill Lynch	(7,050)	(0.01)
GBP	3,852,411	EUR	4,457,402	. , . ,		(102,335)	(0.08)
GBP	1,797,792	JPY	300,110,400	20/01/2023	Goldman Sachs	(96,397)	(0.08)
GBP	1,823,933	JPY	300,119,100	23/01/2023	HSBC	(70,939)	(0.06)
GBP	1,824,343	JPY	300,122,700	25/01/2023	HSBC	(70,971)	(0.06)
GBP	1,246,900	JPY	200,092,578	03/02/2023	HSBC	(17,970)	(0.01)
GBP	1,204,094	JPY	200,092,578	04/01/2023	Morgan Stanley	(56,597)	(0.05)
GBP	5,770,856	USD	6,949,692	03/02/2023	Barclays	(1,519)	-
Total unrealised l	oss on Forward Currency Contra	acts (31 December 2021: (0.05)	%)			(427,684)	(0.35)

			Fair Value GBP	% of Net Assets		
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash			61,019,168 (427,684) 9,730,849	50.42 (0.35) 8.04		
Cash equivalents  Undertaking for collective investment schemes (31 December 2021: 8.91%)	Currency	Quantity/ Nominal Value				
JPMorgan Liquidity Funds - GBP Liquidity LVNAV Fund - Class X (dist.) <sup>1</sup> Time Deposits (31 December 2021: 13.07%)	GBP	11,498,313	11,498,313	9.50		
BRED Banque Populaire SA, 3.41%, 03/01/2023 Cooperatieve Rabobank UA, 3.43%, 03/01/2023	GBP GBP	22,500,000 16,500,000	22,500,000 16,500,000	18.59 13.63		
Total Cash equivalents			50,498,313	41.72		
Other assets and liabilities  Net asset value attributable to holders of redeemable participating shares			212,080 121,032,726	0.17 100.00		
Analysis of total assets (Unaudited)				% of Total Assets		
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Transferable securities and money market instruments other than those admitted to an official stock exchange listing or dealt in on another regulated market Collective investment schemes Time deposits OTC financial derivative instruments Other assets						

 $<sup>^{1}\!\</sup>mathrm{A}$  related party to the Fund.

Total Assets

100.00

#### JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF

Schedule of Investments

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities (31 December 2021: 99.29%)					Joinn Laboratories China Co. Ltd. 'H' Kingdee International Software Group Co.	HKD	127,220	651,182	0.08
Brazil (31 December 2021: 3.60%) B3 SA - Brasil Bolsa Balcao	BRL	744,058	1,861,642	0.22	Ltd.	HKD	741,000	1,589,291	0.19
Centrais Eletricas Brasileiras SA	BRL	262,324	2,092,729	0.25	Kuaishou Technology 'B'	HKD	96,400	877,548	0.11
Compania Energetica de Minas Gerais,	DDI	(00.000	1 455 712	0.10	Kweichow Moutai Co. Ltd. 'A' Laobaixing Pharmacy Chain JSC 'A'	CNH CNH	16,900 283,782	4,218,374 1,659,908	0.51 0.20
Preference EDP - Energias do Brasil SA	BRL BRL	689,928 297,272	1,455,713 1,170,564	0.18 0.14	Longfor Group Holdings Ltd.	HKD	320,500	997,848	0.12
Gerdau SA, Preference	BRL	694,566	3,863,706	0.46	LONGi Green Energy Technology Co. Ltd. 'A'	CNIII	252 200	1 5 41 026	0.18
Itau Unibanco Holding SA, Preference	BRL	980,280	4,641,697	0.56	Meituan 'B'	CNH HKD	252,300 658,600	1,541,036 14,741,596	1.77
Itausa SA, Preference Localiza Rent a Car SA	BRL BRL	1,385,502 261,310	2,233,178 2,633,021	0.27 0.32	Midea Group Co. Ltd. 'A'	CNH	99,500	744,936	0.09
Localiza Rent a Car SA, Rights	BRL	1,127	2,297	0.00	Minth Group Ltd.	HKD	356,000	964,695	0.12
Lojas Renner SA	BRL	601,579	2,333,508	0.28	Montage Technology Co. Ltd. 'A' NARI Technology Co. Ltd. 'A'	CNH CNH	101,416 227,580	917,586 802,583	0.11 0.10
Magazine Luiza SA NU Holdings Ltd. 'A'	BRL USD	841,182 155,370	436,543 632,356	0.05 0.08	NetEase, Inc.	HKD	394,020	5,780,343	0.69
Petroleo Brasileiro SA, Preference	BRL	1,351,929	6,273,452	0.75	NIO, Inc. 'A'	HKD	57,140	574,698	0.07
Raia Drogasil SA	BRL	595,942	2,677,351	0.32	NIO, Inc. ADR Oppein Home Group, Inc. 'A'	USD CNH	129,659 70,500	1,264,175 1,238,337	0.15 0.15
Suzano SA TIM SA ADR	BRL	358,781	3,278,109 2,282,829	0.39 0.27	Pharmaron Beijing Co. Ltd. 'H'	HKD	225,350	1,563,457	0.19
WEG SA	USD BRL	195,951 612,121	4,464,753	0.54	PICC Property & Casualty Co. Ltd. 'H'	HKD	2,474,000	2,348,809	0.28
XP, Inc.	BRL	24,072	366,751	0.04	Pinduoduo, Inc. ADR Ping An Bank Co. Ltd. 'A'	USD CNH	71,098 896,100	5,798,042 1,704,427	0.70 0.20
Brazil total		-	42.700.100	F 13	Ping An Insurance Group Co. of China	CIVIT	090,100	1,704,427	0.20
		-	42,700,199	5.12	Ltd. 'H'	HKD	1,207,500	7,990,746	0.96
Chile (31 December 2021: 0.31%) Banco Santander Chile ADR	USD	119,789	1,897,458	0.23	Postal Savings Bank of China Co. Ltd. 'H' Qingdao Haier Biomedical Co. Ltd. 'A'	HKD CNH	2,692,000 117,564	1,672,810 1,075,584	0.20
Cencosud SA	CLP	318,485	521,493	0.23	Sany Heavy Industry Co. Ltd. 'A'	CNH	446,700	1,020,091	0.13
		-			Shanghai Baosight Software Co. Ltd. 'A'	CNH	206,930	1,339,885	0.16
Chile total			2,418,951	0.29	Shanghai Liangxin Electrical Co. Ltd. 'A'	CNH	424,600	899,050	0.11
China (31 December 2021: 32.06%)		-			Shanghai Putailai New Energy Technology Co. Ltd. 'A'	CNH	98,300	737,230	0.09
Alibaba Group Holding Ltd. Amoy Diagnostics Co. Ltd. 'A'	HKD	2,094,940	23,150,510 244,283	2.78 0.03	Shenzhen Mindray Bio-Medical				
Angel Yeast Co. Ltd. 'A'	CNH CNH	63,900 121,100	791,482	0.03	Electronics Co. Ltd. 'A' Shenzhou International Group Holdings	CNH	47,500	2,169,230	0.26
Anhui Conch Cement Co. Ltd. 'H'	HKD	226,000	790,498	0.09	Ltd.	HKD	83,900	943,814	0.11
ANTA Sports Products Ltd.	HKD	259,400	3,399,973	0.41	Silergy Corp.	TWD	120,000	1,704,218	0.20
Baidu, Inc. ADR Baoshan Iron & Steel Co. Ltd. 'A'	USD CNH	22,977 2,104,000	2,628,109 1,699,901	0.32 0.20	Skshu Paint Co. Ltd. 'A' StarPower Semiconductor Ltd. 'A'	CNH CNH	68,100 17,500	1,120,392 832,906	0.13 0.10
Beijing Oriental Yuhong Waterproof	CIVII	2,10 1,000	1,077,701	0.20	Sunny Optical Technology Group Co. Ltd.	HKD	51,000	606,711	0.07
Technology Co. Ltd. 'A'	CNH	145,200	704,505	0.08	Suzhou Maxwell Technologies Co. Ltd. 'A'	CNH	13,300	791,674	0.10
BOE Technology Group Co. Ltd. 'A' BYD Co. Ltd. 'H'	CNH HKD	3,196,200 58,500	1,561,409 1,443,584	0.19 0.17	Tencent Holdings Ltd.	HKD	890,600	38,111,762	4.57 0.11
CGN Power Co. Ltd. 'H'	HKD	3,541,000	843,857	0.10	Tingyi Cayman Islands Holding Corp. Tongwei Co. Ltd. 'A'	HKD CNH	534,000 137,700	942,802 767,825	0.09
Chacha Food Co. Ltd. 'A'	CNH	220,400	1,592,750	0.19	Trip.com Group Ltd. ADR	USD	46,792	1,609,645	0.19
China Construction Bank Corp. 'H' China International Capital Corp. Ltd. 'H'	HKD HKD	16,183,000 1,036,800	10,139,062 1,979,298	1.22 0.24	Wanhua Chemical Group Co. Ltd. 'A'	CNH	179,300	2,400,998	0.29
China Life Insurance Co. Ltd. 'H'	HKD	2,048,000	3,516,128	0.42	Wuliangye Yibin Co. Ltd. 'A' WuXi AppTec Co. Ltd. 'H'	CNH HKD	120,600 164,694	3,149,543 1,739,796	0.38
China Longyuan Power Group Corp. Ltd.					Wuxi Biologics Cayman, Inc.	HKD	636,500	4,880,816	0.59
'H' China Merchants Bank Co. Ltd. 'H'	HKD HKD	1,018,000 1,040,500	1,244,303 5,819,105	0.15 0.70	Xinyi Solar Holdings Ltd.	HKD	1,074,000	1,188,907	0.14
CMOC Group Ltd. 'H'	HKD	774.000	357,004	0.70	XPeng, Inc. 'A' Yum China Holdings, Inc.	HKD	149,602	735,077	0.09 0.48
China Oilfield Services Ltd. 'H'	HKD	1,384,000	1,682,799	0.20	Zhejiang Dingli Machinery Co. Ltd. 'A'	USD CNH	71,811 209,500	3,958,873 1,448,879	0.48
China Pacific Insurance Group Co. Ltd. 'H' China Petroleum & Chemical Corp. 'H'	HKD	764,800	1,703,051	0.20	Zhejiang Weixing New Building Materials				
China Resources Mixc Lifestyle Services	HKD	4,040,000	1,951,428	0.23	Co. Ltd. 'A' Zhuzhou CRRC Times Electric Co. Ltd.	CNH HKD	513,700 176,400	1,584,419 875,790	0.19 0.11
Ltd.	HKD	198,600	1,008,910	0.12	Zijin Mining Group Co. Ltd. 'H'	HKD	2,578,000	3,494,608	0.42
China Vanke Co. Ltd. 'H' China Yangtze Power Co. Ltd. 'A'	HKD CNH	1,040,400 764,200	2,106,140 2,319,490	0.25 0.28	ZTO Express Cayman, Inc.	HKD	38,700	1,049,196	0.13
Chongging Brewery Co. Ltd. 'A'	CNH	61,600	1,134,091	0.28	China total			264 4EE 0E2	21 72
Chongqing Fuling Zhacai Group Co. Ltd.								264,455,053	31.73
'A' Country Garden Services Holdings Co.	CNH	454,800	1,693,951	0.20	Colombia (31 December 2021: 0.17%) Ecopetrol SA ADR	USD	102,114	1,069,134	0.13
Ltd.	HKD	624,000	1,554,214	0.19		usb	102,114		
CSPC Pharmaceutical Group Ltd.	HKD	1,820,000	1,912,120	0.23	Colombia total			1,069,134	0.13
Dongguan Yiheda Automation Co. Ltd. 'A' ENN Energy Holdings Ltd.	CNH HKD	75,600 211,100	718,319 2,964,344	0.09 0.36	Cyprus (31 December 2021: 0.00%)				
Foshan Haitian Flavouring & Food Co.	TIND	211,100	2,704,544	0.50	TCS Group Holding plc GDR*	USD	15,161	5,458	0.00
Ltd. 'A'	CNH	220,498	2,536,786	0.30	Cyprus total			5,458	0.00
Fuyao Glass Industry Group Co. Ltd. 'H' Ganfeng Lithium Group Co. Ltd. 'H'	HKD HKD	498,800 93,800	2,092,992 700,650	0.25 0.08	•				0.00
Guangzhou Automobile Group Co. Ltd. 'H'		3,522,000	2,373,586	0.28	Greece (31 December 2021: 0.40%) Hellenic Telecommunications				
Guangzhou Kingmed Diagnostics Group			1 020 1/0	0.22	Organization SA	EUR	122,531	1,907,952	0.23
Co. Ltd. 'A' H World Group Ltd.	CNH HKD	170,800 511,700	1,930,460 2,206,126	0.23 0.26	OPAP SA	EUR	144,840	2,045,100	0.25
Haier Smart Home Co. Ltd. 'H'	HKD	1,112,200	3,790,482	0.45	Greece total			3,953,052	0.48
Han's Laser Technology Industry Group			. 251 201	0.45	Hong Kong (31 December 2021: 1.05%)				
Co. Ltd. 'A' Hefei Meiya Optoelectronic Technology,	CNH	337,500	1,251,201	0.15	China Overseas Land & Investment Ltd.	HKD	1,102,000	2,908,564	0.35
Inc. 'A'	CNH	223,668	772,623	0.09	China Resources Land Ltd.	HKD	840,000	3,847,558	0.46
Huatai Securities Co. Ltd. 'H'	HKD	771,600	882,823	0.11	JS Global Lifestyle Co. Ltd.	HKD	315,000	353,949	0.04
Huayu Automotive Systems Co. Ltd. 'A' Hundsun Technologies, Inc. 'A'	CNH CNH	468,943 167,970	1,174,586 982,254	0.14 0.12	Kunlun Energy Co. Ltd. Orient Overseas International Ltd.	HKD HKD	2,988,000 26,000	2,132,385 469,702	0.26 0.06
Industrial & Commercial Bank of China	CINIT	107,770	704,234	0.12	Techtronic Industries Co. Ltd.	HKD	138,000	1,540,023	0.18
Ltd. 'H'	HKD	8,725,000	4,493,879	0.54	Hong Kong total				
Inner Mongolia Yili Industrial Group Co. Ltd. 'A'	CNH	508 200	2,276.997	0 27	Hong Kong total			11,252,181	1.35
Jade Bird Fire Co. Ltd. 'A'	CNH	250,820	1,014,685	0.12					
JD Logistics, Inc.	HKD	414,000	802,014	0.10					
Ltd. 'A' Jade Bird Fire Co. Ltd. 'A'					nong total				

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Hungary (31 December 2021: 0.39%) OTP Bank Nyrt	HUF	79,402	2,139,442	0.26	Poland (31 December 2021: 0.52%) Dino Polska SA	PLN	37,328	3,193,890	0.38
Richter Gedeon Nyrt	HUF	57,569	1,273,458	0.26	Powszechny Zaklad Ubezpieczen SA	PLN	247,070	1,995,148	0.36
Hungary total			3,412,900	0.41	Poland total			5,189,038	0.62
India (31 December 2021: 11.24%) ACC Ltd.	INR	64,448	1,904,694	0.23	<i>Qatar (31 December 2021: 0.35%)</i> Industries Qatar QSC	OAR	510,831	1,796,868	0.21
Apollo Hospitals Enterprise Ltd. Ashok Leyland Ltd.	INR INR	51,653	2,794,619 706,233	0.33	Qatar National Bank QPSC	QAR	806,246	3,985,015	0.48
Asian Paints Ltd.	INR	406,729 9,852	367,619	0.04	Qatar total			5,781,883	0.69
Axis Bank Ltd. Bajaj Finance Ltd.	INR INR	448,917 8,660	5,069,512 688,466	0.61 0.08	Russia (31 December 2021: 3.85%) Gazprom PJSC ADR*	USD	538 <b>,</b> 987		0.01
Bharat Petroleum Corp. Ltd. Biocon Ltd.	INR INR	537,551 289,084	2,150,724 915,334	0.26 0.11	LUKOIL PJSC*	RUB	4,457	3,147	0.00
Britannia Industries Ltd.	INR	57,397	2,997,160	0.36 0.12	Magnitogorsk Iron & Steel Works PJSC* MMC Norilsk Nickel PJSC*	USD RUB	740,299 617	4,326 1,690	0.00
Container Corp. Of India Ltd. Dabur India Ltd.	INR INR	114,762 197,893	1,027,906 1,343,127	0.16	MMC Norilsk Nickel PJSC ADR* Novatek PJSC*	USD RUB	87,452 1,090	20,048 189	0.00
Dr Reddy's Laboratories Ltd. Eicher Motors Ltd.	INR INR	53,214 39,055	2,723,993 1,523,844	0.33 0.18	Novatek PJSC*	USD	37,183	5,703	0.00
GAIL India Ltd.	INR	1,294,628	1,504,635	0.18	Rosneft Oil Co. PJSC GDR* Sberbank of Russia PJSC*	USD USD	12,116 736,940	527 17,566	0.00
Godrej Properties Ltd. HCL Technologies Ltd.	INR INR	51,399 170,563	759,212 2,137,965	0.09 0.26	Sberbank of Russia PJSC*	RUB	49,180	879	0.00
HDFC Bank Ltd. ADR	USD	38,432	2,629,133	0.32	Severstal PAO GDR* Tatneft PJSC ADR*	USD USD	69,708 9,472	11,153 2,833	0.00
HDFC Life Insurance Co. Ltd. Hindustan Unilever Ltd.	INR INR	441,067 178,051	3,019,440 5,518,225	0.36 0.66	X5 Retail Group NV GDR*	USD	45,164	5,451	0.00
Housing Development Finance Corp. Ltd.	INR	301,509	9,628,754	1.16	Russia total			102,078	0.01
ICICI Bank Ltd. ICICI Prudential Life Insurance Co. Ltd.	INR INR	838,959 256,900	9,047,229 1,400,482	1.09 0.17	Saudi Arabia (31 December 2021: 2.94%)		-		
Infosys Ltd. ADR Kotak Mahindra Bank Ltd.	USD INR	558,733 170,265	10,062,781 3,758,055	1.21 0.45	Al Rajhi Bank Alinma Bank	SAR SAR	364,375 356,608	7,291,378 3,088,768	0.87 0.37
Maruti Suzuki India Ltd.	INR	36,691	3,731,190	0.45	Almarai Co. JSC	SAR	121,507	1,729,810	0.21
Oil & Natural Gas Corp. Ltd. Petronet LNG Ltd.	INR INR	563,064 702,932	1,000,489 1,831,039	0.12 0.22	Etihad Etisalat Co. Mouwasat Medical Services Co.	SAR SAR	155,089 16,825	1,434,099 935,717	0.17 0.11
Power Grid Corp. of India Ltd.	INR	1,104,341	2,855,962	0.34	SABIC Agri-Nutrients Co.	SAR	74,178	2,885,797	0.35
Reliance Industries Ltd. Shriram Finance Ltd.	INR INR	483,501 138,693	14,885,203 2,315,182	1.79 0.28	Saudi Arabian Mining Co. Saudi Arabian Oil Co.	SAR SAR	18,774 283,023	323,224 2,417,519	0.04 0.29
Tata Consultancy Services Ltd.	INR	153,609	6,042,981	0.72	Saudi Basic Industries Corp.	SAR	166,902	3,970,473	0.48
Tata Consumer Products Ltd. UltraTech Cement Ltd.	INR INR	208,098 27,821	1,941,879 2,340,556	0.23 0.28	Saudi National Bank (The) Saudi Telecom Co.	SAR SAR	269,993 209,171	3,628,166 2,037,163	0.44 0.24
UPL Ltd.	INR	306,966	2,661,139	0.32	Saudi Arabia total		-	29,742,114	3.57
India total Indonesia (31 December 2021: 1.64%)			113,284,762	13.59	Singapore (31 December 2021: 0.20%) BOC Aviation Ltd.	HKD	109,100	910,687	0.11
Bank Central Asia Tbk. PT	IDR	11,437,600	6,281,772	0.75	Singapore total	TIND	-		
Bank Rakyat Indonesia Persero Tbk. PT Telkom Indonesia Persero Tbk. PT	IDR IDR	17,008,813 15,635,700	5,397,369 3,766,428	0.65 0.45	South Africa (31 December 2021: 3.61%)		-	910,687	0.11
Indonesia total			15,445,569	1.85	Bid Corp. Ltd. Bidvest Group Ltd. (The)	ZAR ZAR	176,862 185,657	3,428,618 2,339,289	0.41 0.28
Kuwait (31 December 2021: 0.18%) National Bank of Kuwait SAKP	KWD	659,797	2,324,003	0.28	Capitec Bank Holdings Ltd. Clicks Group Ltd. Discovery Ltd.	ZAR ZAR ZAR	29,148 152,544 183,424	3,183,873 2,421,339 1,329,730	0.38 0.29 0.16
Kuwait total			2,324,003	0.28	FirstRand Ltd. Foschini Group Ltd. (The)	ZAR	1,257,662	4,591,593	0.55 0.08
Malaysia (31 December 2021: 1.01%) CIMB Group Holdings Bhd.	MYR	1,176,900	1,549,607	0.19	MTN Group Ltd.	ZAR ZAR	115,263 391,390	684,194 2,928,237	0.08
Malayan Banking Bhd.	MYR	563,500	1,112,928	0.13	Naspers Ltd. 'N' Nedbank Group Ltd.	ZAR ZAR	30,393 85,175	5,044,970 1,064,149	0.61 0.13
Petronas Chemicals Group Bhd. Public Bank Bhd.	MYR MYR	1,255,200 3,688,553	2,450,561 3,617,378	0.29 0.44	Sanlam Ltd.	ZAR	817,755	2,341,524	0.28
Tenaga Nasional Bhd.	MYR	690,300	1,509,101	0.18	SPAR Group Ltd. (The) Standard Bank Group Ltd.	ZAR ZAR	93,489 242,340	623,626 2,389,787	0.08 0.29
Malaysia total			10,239,575	1.23	Vodacom Group Ltd.	ZAR	254,808 -	1,837,493	0.22
<i>Mexico (31 December 2021: 3.11%)</i> America Movil SAB de CV	MXN	5,704,288	5,151,854	0.62	South Africa total		_	34,208,422	4.11
Cemex SAB de CV, Preference	MXN	6,263,782	2,545,724	0.30	South Korea (31 December 2021: 13.51%) BGF retail Co. Ltd.	KRW	6,880	1,145,306	0.14
Grupo Aeroportuario del Pacifico SAB de CV 'B'	MXN	153,946	2,207,213	0.26	Hana Financial Group, Inc.	KRW	95,129	3,163,444	0.38
Grupo Aeroportuario del Sureste SAB de CV 'B'	MXN	117,380	2,734,695	0.33	Hankook Tire & Technology Co. Ltd. HL Mando Co. Ltd.	KRW KRW	56,508 22,186	1,392,032 707,075	0.17 0.09
Grupo Financiero Banorte SAB de CV 'O'	MXN	529,657	3,811,677	0.46	Hyundai Glovis Co. Ltd. Hyundai Mobis Co. Ltd.	KRW KRW	17,587 20,074	2,274,001 3,182,947	0.27 0.38
Grupo Mexico SAB de CV Kimberly-Clark de Mexico SAB de CV 'A'	MXN MXN	833,472 769,388	2,938,307 1,305,657	0.35 0.16	Hyundai Mobis Co. Etd.	KRW	14,914	1,780,952	0.21
Sitios Latinoamerica SAB de CV	MXN	291,579	137,655	0.02	JYP Entertainment Corp. Kakao Corp.	KRW KRW	19,741 18,435	1,058,474 774,139	0.13 0.09
Wal-Mart de Mexico SAB de CV	MXN	1,070,359	3,783,311	0.45	KB Financial Group, Inc.	KRW	103,100	3,954,409	0.48
Mexico total			24,616,093	2.95	KIWOOM Securities Co. Ltd. LG Chem Ltd.	KRW KRW	12,710 12,036	844,318 5,711,032	0.10 0.69
Peru (31 December 2021: 0.28%) Credicorp Ltd.	USD	25,050	3,398,283	0.41	LG H&H Co. Ltd. Lotte Chemical Corp.	KRW KRW	3,071 5,692	1,753,469 803,497	0.21 0.10
Peru total			3,398,283	0.41	Lotte Chemical Corp., Rights NAVER Corp.	KRW KRW	1,037 28,988	29,113 4,069,095	0.00 0.49
Philippines (31 December 2021: 0.41%)	J		20 717	0.00	NCSoft Corp. POSCO Holdings, Inc.	KRW KRW	6,908 22,123	2,447,437 4,837,493	0.29 0.58
ACEN Corp. Ayala Corp.	PHP PHP	224,640 46,070	30,717 574,557	0.00 0.07	Samsung Biologics Co. Ltd.	KRW	4,910	3,187,908	0.38
Ayala Land, Inc.	PHP	1,833,800	1,013,522	0.12	Samsung Electro-Mechanics Co. Ltd. Samsung Electronics Co. Ltd.	KRW KRW	7,515 781,759	775,569 34,188,432	0.09 4.10
Philippines total			1,618,796	0.19	Samsung Fire & Marine Insurance Co. Ltd.	KRW	18,045	2,854,093	0.34

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Samsung SDI Co. Ltd.	KRW	4,056	1,895,687	0.23
Shinhan Financial Group Co. Ltd. SK Hynix, Inc.	KRW	129,467	3,603,984	0.43 0.72
SK Innovation Co. Ltd.	KRW KRW	101,135 20,104	5,998,517 2,448,411	0.72
SK Telecom Co. Ltd.	KRW	41,564	1,558,034	0.19
SKC Co. Ltd.	KRW	19,126	1,338,593	0.16
S-Oil Corp.	KRW	39,001	2,572,308 	0.31
South Korea total		-	100,349,769	12.04
Taiwan (31 December 2021: 15.61%) Accton Technology Corp.	TWD	318,000	2,426,217	0.29
Advantech Co. Ltd.	TWD	284,990	3,069,144	0.37
ASE Technology Holding Co. Ltd.	TWD	852,000	2,602,944	0.31
Chailease Holding Co. Ltd. Chunghwa Telecom Co. Ltd.	TWD TWD	481,923 498,000	3,402,492 1,830,912	0.41 0.22
CTBC Financial Holding Co. Ltd.	TWD	5,096,000	3,664,219	0.22
Delta Electronics, Inc.	TWD	496,000	4,623,448	0.56
E.Sun Financial Holding Co. Ltd.	TWD	3,553,966	2,780,917	0.33
Eclat Textile Co. Ltd. eMemory Technology, Inc.	TWD TWD	139,000 19,000	2,240,878 825,267	0.27 0.10
Evergreen Marine Corp. Taiwan Ltd.	TWD	140,600	745,646	0.09
Fubon Financial Holding Co. Ltd.	TWD	1,284,585	2,353,049	0.28
Giant Manufacturing Co. Ltd. Hon Hai Precision Industry Co. Ltd.	TWD	147,000	958,940	0.12
Largan Precision Co. Ltd.	TWD TWD	1,163,000 17,000	3,780,114 1,128,337	0.45 0.14
MediaTek, Inc.	TWD	116,000	2,358,836	0.28
Nan Ya Plastics Corp.	TWD	1,159,000	2,677,328	0.32
Nien Made Enterprise Co. Ltd.	TWD	131,000	1,255,210	0.15
Novatek Microelectronics Corp. Powertech Technology, Inc.	TWD TWD	173,000 294,000	1,775,846 757,587	0.21 0.09
President Chain Store Corp.	TWD	211,000	1,867,287	0.23
Realtek Semiconductor Corp.	TWD	119,000	1,087,960	0.13
Taiwan Mobile Co. Ltd. Taiwan Semiconductor Manufacturing Co.	TWD	355,000	1,093,800	0.13
Ltd. Taiwan Semiconductor Manufacturing Co.	TWD	3,204,000	46,753,559	5.61
Ltd. ADR	USD	35,624	2,653,632	0.32
Uni-President Enterprises Corp.	TWD	1,475,000	3,196,141	0.38
United Microelectronics Corp.  Vanguard International Semiconductor	TWD	827,000	1,095,115	0.13
Corp.	TWD	218,000	549,690	0.07
Wiwynn Corp.	TWD	68,000	1,763,303	0.21
Yang Ming Marine Transport Corp. Yuanta Financial Holding Co. Ltd.	TWD TWD	221,000 4,403,760	470,970 3,109,160	0.06 0.37
Taiwan total			108,897,948	13.07
Thailand (31 December 2021: 1.86%)				
Airports of Thailand PCL	THB	38,000	82,287	0.01
Airports of Thailand PCL NVDR Indorama Ventures PCL	THB THB	1,218,800	2,639,238 20,590	0.32 0.00
Indorama Ventures PCL NVDR	THB	17,500 950,400	1,118,198	0.00
Kasikornbank PCL NVDR	THB	407,500	1,735,419	0.21
Minor International PCL	THB	58,100	54,519	0.01
Minor International PCL NVDR PTT Exploration & Production PCL	THB THB	1,714,400	1,596,345 136,573	0.19 0.02
PTT Exploration & Production PCL NVDR	THB	26,800 632,900	3,225,259	0.39
PTT Global Chemical PCL	THB	48,800	66,574	0.01
PTT Global Chemical PCL NVDR	THB	1,484,900	2,025,741	0.24
PTT PCL PTT PCL NVDR	THB THB	50,400 1,620,500	48,748 1.555.699	0.00 0.19
SCB X PCL	THB	32,200	99,477	0.01
SCB X PCL NVDR	THB	615,800	1,902,428	0.23
SCG Packaging PCL NVDR	THB	754,500	1,241,706	0.15
Siam Cement PCL (The) Siam Cement PCL (The) NVDR	THB THB	6,800 219,700	67,146 2,169,407	0.01 0.26
Thai Oil PCL	THB	57,010	92,589	0.01
Thai Oil PCL NVDR	THB	1,039,443	1,688,138	0.20
Thai Union Group PCL NVDR	THB	1,804,100	880,303	0.10
Thailand total			22,446,384	2.69
United Arab Emirates (31 December 2021: C Dubai Islamic Bank PJSC		1 042 551	1,649,093	0.20
Emaar Properties PJSC	AED AED	1,062,551 1,546,573	2,467,678	0.20
Emirates Telecommunications Group Co.	ALD			0.50
PJSC First Abu Dhabi Bank PJSC	AED AED	225,777 327,621	1,405,324 1,525,416	0.17 0.18
United Arab Emirates total		,021	7,047,511	0.85
United Kingdom (31 December 2021: 0.34%	5)	-		0.05
Anglo American plc	GBP	134,319	5,229,288	0.63
United Kingdom total			5,229,288	0.63

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
United States (31 December 2021: 0.00%) BeiGene Ltd. ADR Genpact Ltd. Parade Technologies Ltd.	USD USD TWD	2,258 28,217 17,000	496,625 1,307,011 427,551	0.06 0.16 0.05
United States total			2,231,187	0.27
<i>Uruguay (31 December 2021: 0.00%)</i> MercadoLibre, Inc.	USD	982	831,008	0.10
Uruguay total			831,008	0.10
Total investments in Equities			823,161,326	98.77

<sup>\*</sup> Security is valued at its fair value under the direction of the Board of Directors.

Schedule of Investments (continued)

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Cash			823,161,326 2,967,034	98.77 0.36
Cash equivalents  Undertaking for collective investment schemes (31 December 2021: 0.40%)  JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>1</sup> Total Cash equivalents	<b>Currency</b> USD	Quantity/ Nominal Value 7,054,510	7,054,510 7,054,510	0.85
Other assets and liabilities  Net asset value attributable to holders of redeemable participating shares			238,691 <b>833,421,561</b>	0.02 100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Collective investment schemes Other assets Total Assets				98.53 - 0.85 0.62 100.00

<sup>&</sup>lt;sup>1</sup>A related party to the Fund.

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities (31 December 2021: 99.66%)					Novo Nordisk A/S 'B'	DKK	2,347	315,949	0.36
Australia (31 December 2021: 2.62%) AGL Energy Ltd.	AUD	23,981	131,240	0.15	Pandora A/S	DKK	881 _	61,714	0.07
Alumina Ltd.	AUD	56,077	57,803	0.07	Denmark total			684,766	0.79
Ampol Ltd. APA Group	AUD AUD	3,121	59,855 73,421	0.07 0.08	Finland (31 December 2021: 1.19%)	5115		72.475	0.00
Aristocrat Leisure Ltd.	AUD	10,062 3,754	77,697	0.00	Elisa OYJ Fortum OYJ	EUR EUR	1,373 6,878	72,475 114,072	0.08
Aurizon Holdings Ltd.	AUD	37,257	94,242	0.11	Kesko OYJ 'B'	EUR	3,455	76,033	0.09
Cochlear Ltd. Coles Group Ltd.	AUD AUD	766 9,592	106,033 108,761	0.12 0.12	Kone OYJ 'B' Stora Enso OYJ 'R'	EUR EUR	3,716 4,270	191,553 59,927	0.22 0.07
CSL Ltd.	AUD	352	68,691	0.08	UPM-Kymmene OYJ	EUR	4,270	181,586	0.07
Dexus, REIT	AUD	16,142	84,837	0.10 0.03	Finland total				
Endeavour Group Ltd. Fortescue Metals Group Ltd.	AUD AUD	5,847 14,326	25,456 199,258	0.03	Finland total		_	695,646	0.80
GPT Group (The), REIT	AUD	39,726	113,149	0.13	France (31 December 2021: 1.76%) Capgemini SE	EUR	1,402	233,346	0.27
Origin Energy Ltd. Scentre Group, REIT	AUD AUD	24,591 28,488	128,742 55,639	0.15 0.06	Carrefour SA	EUR	8,011	133,718	0.15
Sonic Healthcare Ltd.	AUD	8,808	179,015	0.20	Cie Generale des Etablissements Michelin	FUD	2.050	106 770	0.12
South32 Ltd.	AUD	32,252	87,487	0.10	SCA Danone SA	EUR EUR	3,850 1,929	106,770 101,351	0.12
Telstra Group Ltd. Treasury Wine Estates Ltd.	AUD AUD	66,342 8,943	179,509 82,540	0.21 0.09	Dassault Systemes SE	EUR	1,831	65,454	0.07
Wesfarmers Ltd.	AUD	3,646	113,514	0.13	Engie SA Gecina SA, REIT	EUR EUR	7,735 1,093	110,520 110,993	0.13 0.13
Woodside Energy Group Ltd.	AUD	7,924	190,443	0.22	Klepierre SA, REIT	EUR	7,947	182,605	0.21
Australia total			2,217,332	2.54	Orange SA	EUR	16,798	166,387	0.19
Austria (31 December 2021: 0.10%)		-			Sanofi TotalEnergies SE	EUR EUR	3,004 4,763	288,029 298,136	0.33 0.34
OMV AG	EUR	1,784	91,581	0.11	Unibail-Rodamco-Westfield, REIT, EN				
Austria total		-	91,581	0.11	Amsterdam Unibail-Rodamco-Westfield, REIT, EN Paris	EUR EUR	3,505 745	181,911 38,665	0.21 0.04
		-	91,361	0.11	Vinci SA	EUR	1,983	197,435	0.23
Belgium (31 December 2021: 0.08%) Anheuser-Busch InBev SA	EUR	2,459	147,673	0.17	France total		_	2 215 220	2.54
Proximus SADP	EUR	5,859	56,252	0.06			_	2,215,320	2.54
Belgium total		-	203,925	0.23	Germany (31 December 2021: 1.22%) Bayerische Motoren Werke AG	EUR	3,061	272,390	0.31
-		_		0.23	Deutsche Telekom AG	EUR	13,095	260,478	0.30
Bermuda (31 December 2021: 0.00%) Everest Re Group Ltd.	USD	341	112,963	0.13	Deutsche Wohnen SE E.ON SE	EUR	810	17,190	0.02
Bermuda total		-			Fresenius Medical Care AG & Co. KGaA	EUR EUR	11,659 2,063	116,144 67,307	0.13
		_	112,963	0.13	Hannover Rueck SE	EUR	582	115,221	0.13
Canada (31 December 2021: 6.91%) Agnico Eagle Mines Ltd.	CAD	2,683	139,323	0.16	Vonovia SE	EUR	1,065	25,029	0.03
Bank of Montreal	CAD	2,480	224,508	0.26	Germany total			873,759	1.00
Bank of Nova Scotia (The)	CAD	4,242	207,694	0.24	Hong Kong (31 December 2021: 1.07%)		_		
Barrick Gold Corp. BCE, Inc.	CAD CAD	12,808 5,283	219,398 231,954	0.25 0.27	CK Hutchison Holdings Ltd.	HKD	20,000	120,052	0.14
Canadian Imperial Bank of Commerce	CAD	4,838	195,562	0.22	CLP Holdings Ltd. Hong Kong & China Gas Co. Ltd.	HKD HKD	16,000 6,327	116,746 6,015	0.13
Canadian National Railway Co.	CAD	2,111	250,587	0.29	Orient Overseas International Ltd.	HKD	4,500	81,295	0.09
Canadian Natural Resources Ltd. Canadian Tire Corp. Ltd. 'A'	CAD CAD	4,056 755	225,079 78.846	0.26 0.09	PCCW Ltd.	HKD	27,000	12,177	0.01
CGI, Inc. 'A'	CAD	1,338	115,250	0.13	Power Assets Holdings Ltd. Sun Hung Kai Properties Ltd.	HKD HKD	22,000 11,500	120,500 157,362	0.14 0.18
Dollarama, Inc.	CAD	1,027	60,023	0.07	Swire Pacific Ltd. 'A'	HKD	13,500	118,828	0.14
Enbridge, Inc. Fortis, Inc.	CAD CAD	4,267 5,765	166,655 230,523	0.19 0.26	WH Group Ltd.	HKD	73,500	42,754	0.05
Franco-Nevada Corp.	CAD	615	83,775	0.10	Hong Kong total		_	775,729	0.89
Great-West Lifeco, Inc. Hydro One Ltd.	CAD CAD	3,984 7,114	92,032 190,431	0.11 0.22	Ireland (31 December 2021: 0.60%)		_		
Imperial Oil Ltd.	CAD	4,821	234,654	0.27	Accenture plc 'A'	USD	782	208,669	0.24
Intact Financial Corp.	CAD	847	121,841	0.14	Experian plc	GBP	1,393	47,136	0.05
Loblaw Cos. Ltd. Magna International, Inc.	CAD CAD	2,971 3,322	262,510 186,480	0.30 0.21	Jazz Pharmaceuticals plc Medtronic plc	USD USD	24 2,235	3,823 173,704	0.01 0.20
Manulife Financial Corp.	CAD	9,613	171,338	0.20	Iroland total		_		
Metro, Inc. National Bank of Canada	CAD CAD	3,016 3,544	166,877 238,621	0.19 0.27	Ireland total		_	433,332	0.50
Nutrien Ltd.	CAD	3,395	247,681	0.28	Israel (31 December 2021: 0.15%) Check Point Software Technologies Ltd.	IICD	1 271	160,349	0.18
Pembina Pipeline Corp.	CAD	5,180	175,706	0.20	Check Pollit Software Technologies Etd.	USD	1,271	100,549	0.16
Power Corp. of Canada Restaurant Brands International, Inc.	CAD CAD	9,205 1,006	216,376 65,018	0.25 0.08	Israel total			160,349	0.18
Royal Bank of Canada	CAD	2,618	245,966	0.08	Italy (31 December 2021: 0.65%)		_	· · · · · · · · · · · · · · · · · · ·	
Shaw Communications, Inc. 'B'	CAD	8,397	241,756	0.28	A2A SpA	EUR	69,514	92,365	0.11
Sun Life Financial, Inc. Teck Resources Ltd. 'B'	CAD CAD	5,130 7,152	237,958 270,097	0.27 0.31	ENI SpA Poste Italiane SpA	EUR EUR	3,782 8,444	53,627 82,242	0.06 0.09
TELUS Corp.	CAD	11,297	217,861	0.25	Snam SpA	EUR	37,609	181,706	0.21
Thomson Reuters Corp.	CAD	2,234	254,669	0.29	Telecom Italia SpA	EUR	7,383	1,704	0.00
Toronto-Dominion Bank (The) Wheaton Precious Metals Corp.	CAD CAD	3,494 5,361	226,074 209,304	0.26 0.24	Italy total			411,644	0.47
Canada total	0,15	-			Japan (31 December 2021: 6.89%)		_		
		=	6,702,427	7.69	Ajinomoto Co., Inc. Aozora Bank Ltd.	JPY	4,500	137,478 13,767	0.16 0.02
China (31 December 2021: 0.15%) Lenovo Group Ltd.	HKD	226,000	185,608	0.21	Asahi Group Holdings Ltd.	JPY JPY	700 700	21,852	0.02
China total		-/			Astellas Pharma, Inc. Bandai Namco Holdings, Inc.	JPY JPY	13,400	203,775 88,216	0.23 0.10
		_	185,608	0.21	Bridgestone Corp.	JPY	1,400 2,800	99,548	0.10
Denmark (31 December 2021: 0.74%) AP Moller - Maersk A/S 'B'	DKK	41	91,911	0.11	Brother Industries Ltd.	JPY	9,500	144,503	0.17
Carlsberg A/S 'B'	DKK	844	111,825	0.13	Canon, Inc. Capcom Co. Ltd.	JPY JPY	5,500 6,400	119,029 204,206	0.14 0.23
Coloplast A/S 'B'	DKK	887	103,367	0.12	Chubu Electric Power Co., Inc.	JPY	12,900	133,160	0.15

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Concordia Financial Group Ltd. Cosmos Pharmaceutical Corp.	JPY JPY	11,500 100	47,937 10,110	0.05 0.01	Portugal (31 December 2021: 0.24%) EDP - Energias de Portugal SA	EUR	26,557	131,965	0.15
Dai Nippon Printing Co. Ltd.	JPY	1,100	22,093	0.03					
Daicel Corp. Daito Trust Construction Co. Ltd.	JPY JPY	6,200 1,500	44,875 153,928	0.05 0.18	Portugal total		_	131,965	0.15
ENEOS Holdings, Inc.	JPY	21,600	73,340	0.18	Singapore (31 December 2021: 0.04%) CapitaLand Integrated Commercial Trust,				
Hoya Corp.	JPY	1,500	144,435	0.17	REIT	SGD	37,600	57,190	0.07
Inpex Corp. ITOCHU Corp.	JPY JPY	23,300 5,100	246,518 160,253	0.28 0.18	Mapletree Pan Asia Commercial Trust,	CCD	15 000	19,798	0.02
Japan Metropolitan Fund Invest, REIT	JPY	96	76,177	0.18	REIT	SGD	15,900	19,798	0.02
Japan Tobacco, Inc.	JPY	10,100	203,692	0.23	Singapore total			76,988	0.09
Kansai Electric Power Co., Inc. (The)	JPY	14,400	139,585 226,344	0.16 0.26	South Korea (31 December 2021: 1.24%)		_		
KDDI Corp. Lawson, Inc.	JPY JPY	7,500 1,700	64,807	0.26	CJ CheilJedang Corp.	KRW	17	5,115	0.01
Marubeni Corp.	JPY	9,200	105,635	0.12	Hana Financial Group, Inc. KB Financial Group, Inc.	KRW KRW	5,986 4,376	199,060 167,842	0.23 0.19
MatsukiyoCocokara & Co.	JPY	1,800	90,038 91,947	0.10 0.11	Kia Corp.	KRW	3,514	164,793	0.19
MEIJI Holdings Co. Ltd. Mitsubishi Chemical Group Corp.	JPY JPY	1,800 21,200	110,013	0.11	Korea Investment Holdings Co. Ltd.	KRW	372	15,680	0.02
Mitsubishi Corp.	JPY	5,800	188,271	0.22	KT&G Corp.	KRW	2,695	195,012	0.22
Mitsubishi Gas Chemical Co., Inc.	JPY	2,800	38,686	0.04	LG Corp. LG Uplus Corp.	KRW KRW	1,249 2,865	77,143 25,036	0.09
Mitsui Chemicals, Inc. Mitsui Fudosan Co. Ltd.	JPY JPY	1,300 6,300	29,311 115,405	0.03	Lotte Chemical Corp.	KRW	198	27,950	0.03
MS&AD Insurance Group Holdings, Inc.	JPY	2,200	70,429	0.08	Lotte Chemical Corp., Rights	KRW	39	1,095	0.00
Nintendo Co. Ltd.	JPY	694	29,097	0.03	Samsung Electronics Co. Ltd. SK Square Co. Ltd.	KRW KRW	3,864 1,708	168,983 45,317	0.19 0.05
Nippon Telegraph & Telephone Corp. Nomura Real Estate Holdings, Inc.	JPY JPY	9,400	268,012 111,531	0.31 0.13	SK Telecom Co. Ltd.	KRW	3,615	135,509	0.16
Nomura Research Institute Ltd.	JPY	5,200 2,700	63,742	0.13	South Karaa total		_		
ORIX Corp.	JPY	7,100	113,997	0.13	South Korea total			1,228,535	1.41
Osaka Gas Co. Ltd.	JPY	7,400	119,459	0.14	Spain (31 December 2021: 1.06%)			77.075	0.00
Resona Holdings, Inc. Sankyo Co. Ltd.	JPY JPY	50,200 1,400	275,150 57,084	0.32 0.07	Enagas SA Endesa SA	EUR EUR	4,700 10,635	77,875 200,161	0.09 0.23
SCREEN Holdings Co. Ltd.	JPY	1,700	109,000	0.12	Iberdrola SA	EUR	19,578	228,378	0.26
Sekisui Chemical Co. Ltd.	JPY	2,000	27,966	0.03	Naturgy Energy Group SA	EUR	8,480	220,012	0.25
Shionogi & Co. Ltd. SoftBank Corp.	JPY JPY	1,600 12,800	79,864 144,351	0.09 0.17	Red Electrica Corp. SA Telefonica SA	EUR EUR	7,745	134,403 175,549	0.16 0.20
SoftBank Group Corp.	JPY	1,100	47,053	0.05	Teleforiica SA	EUK	48,593 —		0.20
Sojitz Corp.	JPY	5,200	99,038	0.11	Spain total			1,036,378	1.19
Sumitomo Chemical Co. Ltd. Sumitomo Rubber Industries Ltd.	JPY	42,800	153,755 20,081	0.18 0.02	Sweden (31 December 2021: 2.56%)		_		
Takeda Pharmaceutical Co. Ltd.	JPY JPY	2,300 6,800	20,061	0.02	Alleima AB	SEK	272	1,003	0.00
Tohoku Electric Power Co., Inc.	JPY	2,800	14,664	0.02	Atlas Copco AB 'A' Boliden AB	SEK SEK	19,037	224,910 235,738	0.26 0.27
Tokio Marine Holdings, Inc.	JPY	4,000	85,718	0.10	Getinge AB 'B'	SEK	6,278 1,342	233,736	0.27
Tokyo Electric Power Co. Holdings, Inc. Tokyo Gas Co. Ltd.	JPY JPY	16,100 8,800	58,082 172,405	0.07 0.20	H & M Hennes & Mauritz AB 'B'	SEK	8,267	89,053	0.10
Toppan, Inc.	JPY	900	13,328	0.02	Hexagon AB 'B'	SEK	16,973	177,557	0.21
Toyo Suisan Kaisha Ltd.	JPY	2,500	96,631	0.11	Investor AB 'B' Sandvik AB	SEK SEK	8,127 5,476	147,073 99,014	0.17 0.11
Trend Micro, Inc. Ube Industries Ltd.	JPY	900	41,881 94,003	0.05 0.11	Skandinaviska Enskilda Banken AB 'A'	SEK	9,035	104,012	0.12
Unicharm Corp.	JPY JPY	6,400 900	34,569	0.04	Tele2 AB 'B'	SEK	12,998	106,160	0.12
Yamaha Motor Co. Ltd.	JPY	2,500	57,031	0.07	Telefonaktiebolaget LM Ericsson 'B' Telia Co. AB	SEK SEK	8,155 65.105	47,664 166,582	0.06 0.19
Zeon Corp.	JPY	3,500	35,439	0.04	Sweden total	SEK	65,105		
Japan total		=	6,254,161	7.17	Switzerland (31 December 2021: 3.13%)		_	1,426,625	1.64
Mexico (31 December 2021: 0.00%) Southern Copper Corp.	USD	4,349	262,636	0.30	ABB Ltd. Accelleron Industries AG	CHF CHF	5,717 274	173,388 5,670	0.20 0.01
Mexico total			262,636	0.30	Adecco Group AG Chubb Ltd.	CHF USD	114 1,230	3,753 271,338	0.00 0.31
Netherlands (31 December 2021: 2.16%)		-			Garmin Ltd.	USD	1,644	151,725	0.17
ASM International NV ASML Holding NV	EUR	500 503	125,749 270,453	0.14 0.31	Geberit AG	CHF	197	92,730	0.11
BE Semiconductor Industries NV	EUR EUR	934	56,380	0.07	Glencore plc Logitech International SA	GBP CHF	29,093 655	193,318 40,396	0.22
Heineken Holding NV	EUR	652	50,136	0.06	Nestle SA	CHF	2,613	302,591	0.35
Koninklijke Ahold Delhaize NV	EUR	9,113	261,042	0.30	Novartis AG	CHF	3,290	297,245	0.34
Koninklijke DSM NV Koninklijke KPN NV	EUR EUR	99 74,813	12,077 230,749	0.01 0.26	Roche Holding AG Sonova Holding AG	CHF CHF	918 788	288,239 186,779	0.33 0.21
Koninklijke Philips NV	EUR	1,535	22,942	0.03	STMicroelectronics NV	EUR	1,374	48,384	0.06
NN Group NV	EUR	5,562	226,519	0.26	Swiss Life Holding AG	CHF	227	116,984	0.13
Wolters Kluwer NV	EUR	2,344	244,560	0.28	Swisscom AG Zurich Insurance Group AG	CHF CHF	490 178	268,303 85,094	0.31 0.10
Netherlands total New Zealand (31 December 2021: 0.22%)		-	1,500,607	1.72	Switzerland total		_	2,525,937	2.90
Spark New Zealand Ltd.	NZD	64,316	219,654	0.25	United Kingdom (31 December 2021: 3.86%)		- A	2// 001	0.20
New Zealand total			219,654	0.25	Anglo American plc Auto Trader Group plc  Portology Group Holdings pls	GBP GBP	6,290 9,070	244,881 56,253	0.28
Norway (31 December 2021: 0.72%)			2/2		Berkeley Group Holdings plc British American Tobacco plc	GBP GBP	2,190 6,779	99,394 267,589	0.11 0.31
DNB Bank ASA Equinor ASA	NOK NOK	10,797 7,140	213,123 254,985	0.25 0.29	BT Group plc 'A'	GBP	122,786	165,497	0.19
Mowi ASA	NOK NOK	7,140 2,105	35,728	0.29	Coca-Cola Europacific Partners plc	USD	4,475	247,557	0.28
Norsk Hydro ASA	NOK	16,567	123,307	0.14	Evraz plc* Ferguson plc	GBP GBP	9,877 1,589	486 199,551	0.00 0.23
Telenor ASA	NOK	8,415	78,247	0.09	GSK plc	GBP	1,589	188,026	0.23
	NOK	2,587	113,081	0.13	Haleon plc	GBP	16,566	65,232	0.08
Yara International ASA									
Yara International ASA  Norway total			818,471	0.94	HSBC Holdings plc	GBP	24,216	150,220 261,701	0.17
		-	818,471	0.94	HSBC Holdings plc Imperial Brands plc InterContinental Hotels Group plc	GBP GBP GBP	24,216 10,505 1,733	150,220 261,701 98,895	0.17 0.30 0.11

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Linde plc	USD	799	260,618	0.30	Dell Technologies, Inc. 'C'	USD	3,133	126,009	0.14
Mondi plc Pearson plc	GBP GBP	1,185 3,477	20,091 39,282	0.02 0.05	Devon Energy Corp. Discover Financial Services	USD USD	3,657	224,942 60,655	0.26 0.07
Persimmon plc	GBP	2,427	35,530	0.03	Dollar General Corp.	USD	620 1,044	257,085	0.07
Reckitt Benckiser Group plc	GBP	575	39,799	0.05	Dow, Inc.	USD	4,356	219,499	0.25
RELX plc	GBP	5,326	146,584	0.17	DTE Energy Co.	USD	1,984	233,180	0.27
Rio Tinto plc	GBP	4,035	281,418	0.32	Duke Energy Corp.	USD	2,432	250,472	0.29
Sage Group plc (The) Segro plc, REIT	GBP GBP	6,814 14,174	61,114 130,193	0.07 0.15	Eastman Chemical Co. Eaton Corp. plc	USD USD	2,266 1,650	184,543 258,968	0.21 0.30
Shell plc	GBP	7,210	201,732	0.13	Edison International	USD	55	3,499	0.00
Smiths Group plc	GBP	2,384	45,840	0.05	Electronic Arts, Inc.	USD	1,796	219,435	0.25
SSE plc	GBP	12,444	256,267	0.29	Elevance Health, Inc.	USD	515	264,180	0.30
Tate & Lyle plc	GBP	8,315	71,135	0.08	Eli Lilly & Co.	USD	719	263,039	0.30
Tesco plc Unilever plc	GBP GBP	61,789 2,895	166,639 145,634	0.19 0.17	Entergy Corp. EOG Resources, Inc.	USD USD	1,771 1,949	199,237 252,434	0.23 0.29
Vodafone Group plc	GBP	164,737	166,932	0.19	Equinix, Inc., REIT	USD	260	170,308	0.20
	05.	-			Equity LifeStyle Properties, Inc., REIT	USD	2,466	159,304	0.18
United Kingdom total			4,287,716	4.92	Equity Residential, REIT	USD	2,477	146,143	0.17
United States (31 December 2021: 60.0	8%)	_			Essex Property Trust, Inc., REIT	USD	790	167,417 210.893	0.19
3M Co.	USD	840	100,733	0.12	Estee Lauder Cos., Inc. (The) 'A' Evergy, Inc.	USD USD	850 3,811	210,893	0.24 0.28
Abbott Laboratories	USD	2,168	238,025	0.27	Exelon Corp.	USD	5,826	251,858	0.29
AbbVie, Inc.	USD	1,647	266,172	0.31	Extra Space Storage, Inc., REIT	USD	1,304	191,923	0.22
Activision Blizzard, Inc. Advance Auto Parts, Inc.	USD USD	1,515 872	115,973 128,210	0.13 0.15	Exxon Mobil Corp.	USD	2,453	270,566	0.31
Agilent Technologies, Inc.	USD	1,223	183,022	0.13	Federal Realty Investment Trust, REIT	USD	1,729	174,698	0.20
Air Products & Chemicals, Inc.	USD	676	208,384	0.24	Fidelity National Financial, Inc. Fifth Third Bancorp	USD USD	6,154 6,697	231,513 219,729	0.27 0.25
Ally Financial, Inc.	USD	4,569	111,712	0.13	FirstEnergy Corp.	USD	6,501	272,652	0.23
Alphabet, Inc. 'A' Altria Group, Inc.	USD USD	1,422 5,658	125,463 258,627	0.14 0.30	FMC Corp.	USD	1,045	130,416	0.15
Amdocs Ltd.	USD	2,009	182,618	0.30	Ford Motor Co.	USD	11,411	132,710	0.15
Ameren Corp.	USD	2,656	236,172	0.27	Fortinet, Inc.	USD	4,146	202,698	0.23
American Electric Power Co., Inc.	USD	2,833	268,993	0.31	Fortune Brands Innovations, Inc. Freeport-McMoRan, Inc.	USD USD	73 6,700	4,169 254,600	0.00
American Express Co.	USD	1,139	168,287	0.19	Gartner, Inc.	USD	673	226,222	0.26
American International Group, Inc. American Tower Corp., REIT	USD	4,295 790	271,616 167,369	0.31 0.19	Gen Digital, Inc.	USD	6,050	129,651	0.15
AmerisourceBergen Corp. 'A'	USD USD	1,549	256,685	0.19	General Dynamics Corp.	USD	1,054	261,508	0.30
Amgen, Inc.	USD	941	247,144	0.28	General Mills, Inc.	USD	3,115	261,193	0.30
Apple, Inc.	USD	1,670	216,983	0.25	Gentex Corp. Genuine Parts Co.	USD USD	8,481 472	231,277 81,897	0.27 0.09
Applied Materials, Inc.	USD	2,238	217,936	0.25	Gilead Sciences, Inc.	USD	3,027	259,868	0.30
Archer-Daniels-Midland Co. Arista Networks, Inc.	USD USD	2,928 1,996	271,865 242,215	0.31 0.28	Goldman Sachs Group, Inc. (The)	USD	708	243,113	0.28
AT&T, Inc.	USD	1,996	260,833	0.28	Hartford Financial Services Group, Inc.			240 424	0.74
Atmos Energy Corp.	USD	1,454	162,950	0.19	(The) HCA Healthcare, Inc.	USD USD	3,553 1,002	269,424 240,440	0.31 0.28
Automatic Data Processing, Inc.	USD	998	238,382	0.27	Henry Schein, Inc.	USD	1,326	105,908	0.20
AutoZone, Inc.	USD	91	224,422	0.26	Hershey Co. (The)	USD	1,146	265,379	0.30
Avangrid, Inc. Bath & Body Works, Inc.	USD	2,321	99,757 140,284	0.11 0.16	Hewlett Packard Enterprise Co.	USD	8,211	131,048	0.15
Becton Dickinson & Co.	USD USD	3,329 851	216,409	0.16	Hologic, Inc.	USD	3,352	250,763	0.29
Berkshire Hathaway, Inc. 'B'	USD	274	84,639	0.10	Honeywell International, Inc. Host Hotels & Resorts, Inc., REIT	USD USD	1,230	263,589 232,902	0.30 0.27
Best Buy Co., Inc.	USD	2,276	182,558	0.21	HP, Inc.	USD	14,511 3,392	91,143	0.10
Biogen, Inc.	USD	606	167,814	0.19	Humana, Inc.	USD	373	191,047	0.22
BorgWarner, Inc. Bristol-Myers Squibb Co.	USD	4,350 3,322	175,087 239,018	0.20 0.27	Illinois Tool Works, Inc.	USD	1,180	259,954	0.30
Broadcom, Inc.	USD USD	3,322 495	276,769	0.27	International Business Machines Corp.	USD	1,344	189,356	0.22
Bunge Ltd.	USD	2,735	272,871	0.31	International Paper Co. Interpublic Group of Cos., Inc. (The)	USD USD	1,508 7,999	52,222 266,447	0.06 0.31
Campbell Soup Co.	USD	4,981	282,672	0.32	Intuit, Inc.	USD	7,999 465	180,987	0.31
Capital One Financial Corp.	USD	2,079	193,264	0.22	Invitation Homes, Inc., REIT	USD	4,814	142,687	0.16
Cardinal Health, Inc. Carrier Global Corp.	USD	2,798	215,082 69,135	0.25 0.08	IQVIA Holdings, Inc.	USD	738	151,209	0.17
Caterpillar, Inc.	USD USD	1,676 1,113	266,630	0.08	Iron Mountain, Inc., REIT	USD	4,920	245,262	0.28
CBRE Group, Inc. 'A'	USD	3,315	255,122	0.29	JM Smucker Co. (The) Johnson & Johnson	USD USD	1,745	276,513 266,035	0.32 0.31
CDW Corp.	USD	540	96,433	0.11	Johnson Controls International plc	USD	1,506 2,788	178,432	0.20
Celanese Corp. 'A'	USD	1,815	185,566	0.21	Juniper Networks, Inc.	USD	6,199	198,120	0.23
Centene Corp. CenterPoint Energy, Inc.	USD	1,935	158,689 263,492	0.18 0.30	Kellogg Co.	USD	3,650	260,026	0.30
CF Industries Holdings, Inc.	USD USD	8,786 2,581	219,901	0.30	Keurig Dr Pepper, Inc.	USD	6,956	248,051	0.28
Chevron Corp.	USD	1,489	267,261	0.31	Keysight Technologies, Inc. Kimberly-Clark Corp.	USD	1,232	210,758	0.24
Cigna Corp.	USD	809	268,054	0.31	Kimco Realty Corp., REIT	USD USD	624 11,961	84,708 253,334	0.10
Cintas Corp.	USD	186	84,001	0.10	Kinder Morgan, Inc.	USD	11,083	200,381	0.23
Cisco Systems, Inc.	USD	5,165	246,061	0.28	KLA Corp.	USD	692	260,905	0.30
CMS Energy Corp. Coca-Cola Co. (The)	USD	3,873	245,277	0.28 0.31	Kraft Heinz Co. (The)	USD	6,766	275,444	0.32
Colgate-Palmolive Co.	USD USD	4,203 2,644	267,353 208,321	0.31	Kroger Co. (The)	USD	5,437	242,381	0.28
Comcast Corp. 'A'	USD	5,010	175,200	0.20	L3Harris Technologies, Inc. Laboratory Corp. of America Holdings	USD	1,114	231,946 233,596	0.27 0.27
Conagra Brands, Inc.	USD	7,069	273,570	0.31	Lam Research Corp.	USD USD	992 485	203,845	0.27
ConocoPhillips	USD	2,206	260,308	0.30	Lear Corp.	USD	335	41,547	0.05
Consolidated Edison, Inc.	USD	2,768	263,818	0.30	Leidos Holdings, Inc.	USD	671	70,582	0.08
Constellation Brands, Inc. 'A' Constellation Energy Corp.	USD USD	1,032 1,952	239,166 168,282	0.27 0.19	Lennar Corp. 'A'	USD	2,520	228,060	0.26
Cooper Cos., Inc. (The)	USD	1,952 290	95,894	0.19	LKQ Corp.	USD	3,611	192,864	0.22
Corteva, Inc.	USD	4,004	235,355	0.27	Lockheed Martin Corp. Lowe's Cos., Inc.	USD	543	264,164 218,766	0.30 0.25
CoStar Group, Inc.	USD	2,153	166,384	0.19	Lowe's Cos., Inc. Lumen Technologies, Inc.	USD USD	1,098 32,604	218,766 170,193	0.25
Crown Castle Inc. DEIT	USD	1,555	210,920	0.24	LyondellBasell Industries NV 'A'	USD	3,173	263,454	0.20
Crown Castle, Inc., REIT							٠, ـ , ٠	,	
Cummins, Inc.	USD	956	231,629	0.27	Marathon Oil Corp.	USD	6,876	186,133	0.21
	USD USD USD	956 2,627 898	231,629 244,810 238,347	0.27 0.28 0.27	Marathon Oil Corp. Marathon Petroleum Corp. Masco Corp.	USD USD USD	6,876 2,279 2,342	186,133 265,253 109,301	0.21 0.30 0.13

USD

USD

USD USD

USD

USD

USD

USD

US Bancorp Ventas, Inc., REIT Verizon Communications, Inc.

Vertex Pharmaceuticals, Inc.

Walgreens Boots Alliance, Inc.

VICI Properties, Inc., REIT

Vistra Corp.

Walmart, Inc.

Universal Health Services, Inc. 'B'

UnitedHealth Group, Inc.

503

914

3,805

5,100 4,706

601

7,941

10,461

117 1,759

As at 31 December 2022								
Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD
				7135013				
Masterbrand, Inc.	USD	1,880	14,194	0.02	Waste Connections, Inc.	CAD	1,855	245,718
McKesson Corp. Merck & Co., Inc.	USD USD	696 2,458	261,084 272,715	0.30 0.31	Waste Management, Inc. WEC Energy Group, Inc.	USD USD	1,503 2,805	235,791 262,997
Microsoft Corp.	USD	953	228,548	0.26	Welltower, Inc., REIT	USD	3,191	209,170
Mid-America Apartment Communities,					Western Union Co. (The)	USD	10,228	140,840
Inc., REIT	USD	1,574	247,102	0.28	Westlake Corp.	USD	2,480	254,299
Moderna, Inc. Molina Healthcare, Inc.	USD USD	1,013 199	181,955 65,714	0.21 0.08	Weyerhaeuser Co., REIT	USD	8,312	257,672
Molson Coors Beverage Co. 'B'	USD	4,849	249,820	0.08	Whirlpool Corp. Williams Cos., Inc. (The)	USD USD	1,117 6,724	158,011 221,220
Mondelez International, Inc. 'A'	USD	3,945	262,934	0.30	WP Carey, Inc., REIT	USD	3,290	257,114
Morgan Stanley	USD	2,892	245,878	0.28	WW Grainger, Inc.	USD	448	249,200
Mosaic Co. (The)	USD	5,465	239,750	0.27	Xcel Energy, Inc.	USD	2,598	182,146
Motorola Solutions, Inc. NetApp, Inc.	USD USD	988 2,434	254,617 146,186	0.29 0.17	Zillow Group, Inc. 'C'	USD	4,645	149,615
Newell Brands, Inc.	USD	2,434	36,297	0.17	United States total			51,304,227
Newmont Corp.	USD	4,018	189,650	0.22			-	31,304,227
NIKE, Inc. 'B'	USD	1,676	196,109	0.22	Total investments in Equities			86,838,281
NiSource, Inc.	USD	8,950	245,409	0.28			=	
Norfolk Southern Corp.	USD	649	159,927 207,880	0.18 0.24	* Security is valued at its fair value (	under the direction	of the Board o	f Directors.
NRG Energy, Inc. Nucor Corp.	USD USD	6,533 1,748	230,404	0.24				
NVR, Inc.	USD	28	129,152	0.15				
Occidental Petroleum Corp.	USD	944	59,463	0.07				
Omnicom Group, Inc.	USD	1,293	105,470	0.12				
Oracle Corp. O'Reilly Automotive, Inc.	USD	3,160	258,298	0.30				
Otis Worldwide Corp.	USD USD	294 870	248,145 68,130	0.28 0.08				
Packaging Corp. of America	USD	1,617	206,830	0.24				
Parker-Hannifin Corp.	USD	906	263,646	0.30				
Paychex, Inc.	USD	2,097	242,329	0.28				
PepsiCo, Inc.	USD	1,451	262,138	0.30				
PerkinElmer, Inc. Pfizer, Inc.	USD USD	1,083 5,123	151,858 262,503	0.17 0.30				
PG&E Corp.	USD	5,652	91,902	0.11				
Philip Morris International, Inc.	USD	2,584	261,527	0.30				
Pinnacle West Capital Corp.	USD	3,450	262,338	0.30				
Pioneer Natural Resources Co.	USD	1,028	234,785	0.27				
PPL Corp. Principal Financial Group, Inc.	USD	9,000	262,980 188,233	0.30 0.22				
Procter & Gamble Co. (The)	USD USD	2,243 1,789	271,141	0.22				
Progressive Corp. (The)	USD	1,744	226,214	0.26				
Prologis, Inc., REIT	USD	2,304	259,730	0.30				
Prudential Financial, Inc.	USD	2,503	248,948	0.29				
Public Storage, REIT	USD	911	255,253	0.29				
PulteGroup, Inc. Qorvo, Inc.	USD USD	1,010 1,255	45,985 113,753	0.05 0.13				
QUALCOMM, Inc.	USD	1,800	197,892	0.23				
Quest Diagnostics, Inc.	USD	1,794	280,653	0.32				
Realty Income Corp., REIT	USD	3,794	240,653	0.28				
Regency Centers Corp., REIT	USD	4,095	255,937	0.29				
Regeneron Pharmaceuticals, Inc. Republic Services, Inc. 'A'	USD USD	313 1,799	225,826 232,053	0.26 0.27				
ResMed, Inc.	USD	734	152,767	0.18				
Roper Technologies, Inc.	USD	418	180,614	0.21				
SBA Communications Corp., REIT 'A'	USD	608	170,428	0.20				
Seagate Technology Holdings plc	USD	2,262	119,004	0.14				
Sempra Energy	USD	1,624	250,973	0.29				
Simon Property Group, Inc., REIT Skyworks Solutions, Inc.	USD USD	2,258 1,362	265,270 124,119	0.30 0.14				
Snap-on, Inc.	USD	389	88,883	0.10				
Southern Co. (The)	USD	4,002	285,783	0.33				
State Street Corp.	USD	2,225	172,593	0.20				
Steel Dynamics, Inc.	USD	2,460	240,342	0.28				
STERIS plc Stryker Corp.	USD USD	1,163 1,003	214,794 245,223	0.25 0.28				
Synchrony Financial	USD	5,738	188,551	0.28				
Synopsys, Inc.	USD	760	242,660	0.28				
Target Corp.	USD	1,016	151,425	0.17				
TE Connectivity Ltd.	USD	1,969	226,041	0.26				
Teradyne, Inc.	USD	2,055	179,504	0.21				
Texas Instruments, Inc. Thermo Fisher Scientific, Inc.	USD USD	1,516 449	250,474 247,260	0.29 0.28				
T-Mobile US, Inc.	USD	1,179	165,060	0.28				
Tractor Supply Co.	USD	1,096	246,567	0.28				
Ubiquiti, Inc.	USD	346	94,641	0.11				
Union Pacific Corp.	USD	1,164	241,029	0.28				
United Parcel Service, Inc. 'B'	USD	1,310	227,730	0.26				

% of

Net Assets

0.28

0.27

0.24

0.16 0.29 0.30

0.18

0.25

0.29 0.29 0.21 0.17

58.84

99.60

0.31

0.15

0.19 0.26 0.21

0.20

0.30

0.28

0.00

266,681

128,773

165,936 229,755

185,416

173,557

257,288

242,695

4,371 249,409

Schedule of Investments (continued)

As at 31 December 2022

Financial Futures Contracts

Security Description	No. of Contracts	Currency	Underlying Exposure USD	Counterparty	Fair Value USD	% of Net Assets
United States (31 December 2021: (0.00)%) S&P 500 Micro E-Mini Index, 17/03/2023	12	USD	236,373	Citibank NA	(4,713)	(0.01)
United States total					(4,713)	(0.01)
Total unrealised loss on Financial Futures Contracts (31 Decem	nber 2021: (0.00)%)				(4,713)	(0.01)
					Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash and margin cash Other assets and liabilities Net asset value attributable to holders of redeemable particip	ating shares				86,838,281 (4,713) 161,366 195,174 87,190,108	99.60 (0.01) 0.19 0.22 100.00
Analysis of total assets (Unaudited)						% of Total Assets
Transferable securities and money market instruments admitted Transferable securities and money market instruments dealt in o Other assets Total Assets						97.92 1.64 0.44 100.00

Schedule of Investments

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Bonds					Vermilion Energy, Inc. 5.63% 15/03/2025	USD	524,000	503,081	0.23
Corporate Debt Securities (31 December	2021: 97.289	6)			Vermilion Energy, Inc. 6.88% 01/05/2030	USD	291,000	265,562	0.12
Argentina (31 December 2021: 2.04%) AES Argentina Generacion SA 7.75%					Canada total		_	2.4// 175	1.60
02/02/2024	USD	161,000	125,983	0.06			_	3,466,175	1.60
Pampa Energia SA 7.50% 24/01/2027 Telecom Argentina SA 8.00%	USD	768,000	703,427	0.33	Cayman Islands (31 December 2021: 3.30%) Central China Real Estate Ltd. 7.65%				
18/07/2026	USD	519,000	485,265	0.22	27/08/2023	USD	328,000	117,861	0.05
Telecom Argentina SA, 144A 8.00% 18/07/2026	USD	52,000	49,176	0.02	China Hongqiao Group Ltd. 6.25% 08/06/2024	USD	430,000	399,362	0.18
Transportadora de Gas del Sur SA 6.75%					CSN Inova Ventures 6.75% 28/01/2028	USD	603,000	575,378	0.27
02/05/2025 Transportadora de Gas del Sur SA, 144A	USD	291,000	268,811	0.13	CSN Inova Ventures, 144A 6.75% 28/01/2028	USD	754,000	719,461	0.33
6.75% 02/05/2025	USD	310,000	287,248	0.13	Gran Tierra Energy International Holdings Ltd. 6.25% 15/02/2025	USD	200,000	174,500	0.08
YPF Energia Electrica SA 10.00% 25/07/2026	USD	164,000	142,330	0.07	Health & Happiness H&H International				
YPF Energia Electrica SA, 144A 10.00% 25/07/2026	USD	282,000	244,738	0.11	Holdings Ltd. 5.63% 24/10/2024 Seagate HDD Cayman 4.09% 01/06/2029	USD USD	233,000 90,000	204,807 74,614	0.10 0.04
YPF SA 8.75% 04/04/2024	USD	113,400	107,679	0.05	Seagate HDD Cayman 5.75% 01/12/2034	USD	430,000	364,588	0.17
YPF SA 8.50% 28/07/2025	USD	372,000	311,765	0.14	Shelf Drilling Holdings Ltd. 8.25%				
YPF SA 6.95% 21/07/2027	USD	268,000	189,857	0.09	15/02/2025 Shelf Drilling Holdings Ltd., 144A 8.25%	USD	84,000	72,660	0.03
YPF SA, 144A 6.95% 21/07/2027 YPF SA 8.50% 27/06/2029	USD USD	776,000	549,734 224,612	0.25 0.10	15/02/2025	USD	150,000	129,750	0.06
YPF SA 8.50% 27/06/2029 YPF SA, STEP 7.00% 30/09/2033	USD	299,000 195.000	129,383	0.10			_		
YPF SA 7.00% 15/12/2047	USD	533,000	319,639	0.15	Cayman Islands total			2,832,981	1.31
Argentina total		-	4 120 ( 47	1.01	Colombia (31 December 2021: 0.00%)	uco	-	F0/ /30	0.27
-		_	4,139,647	1.91	Ecopetrol SA 5.38% 26/06/2026 Ecopetrol SA 6.88% 29/04/2030	USD USD	622,000 721,000	586,639 653,826	0.27 0.30
Australia (31 December 2021: 1.27%) FMG Resources August 2006 Pty. Ltd.					Ecopetrol SA 4.63% 02/11/2031	USD	313,000	239,082	0.11
5.13% 15/05/2024	USD	599,000	588,711	0.27	Ecopetrol SA 7.38% 18/09/2043	USD	270,000	229,954	0.10
FMG Resources August 2006 Pty. Ltd. 4.50% 15/09/2027	USD	726,000	669,735	0.31	Ecopetrol SA 5.88% 02/11/2051 Grupo de Inversiones Suramericana SA	USD	56,000	37,661	0.02
FMG Resources August 2006 Pty. Ltd.	usb	720,000	009,733		5.50% 29/04/2026	USD	200,000	193,000	0.09
4.38% 01/04/2031 FMG Resources August 2006 Pty. Ltd.	USD	976,000	811,723	0.37	Grupo de Inversiones Suramericana SA, 144A 5.50% 29/04/2026	USD	200,000	193,000	0.09
6.13% 15/04/2032	USD	312,000	290,971	0.13	Colombia total		-	2 122 1/2	0.00
Mineral Resources Ltd. 8.13% 01/05/2027	USD	876,000	882,074	0.41			_	2,133,162	0.98
Mineral Resources Ltd. 8.50%			F16 000	0.24	Finland (31 December 2021: 1.17%) Huhtamaki OYJ 4.25% 09/06/2027	EUR	600,000	623,374	0.29
01/05/2030	USD	510,000	516,900	0.24	Nokia OYJ 2.00% 15/03/2024	EUR	541,000	565,590	0.26
Australia total			3,760,114	1.73	Nokia OYJ 2.38% 15/05/2025 Nokia OYJ 2.00% 11/03/2026	EUR EUR	205,000 625,000	209,948 624,830	0.10 0.29
Austria (31 December 2021: 0.52%)		-			Nokia OYJ 4.38% 12/06/2027	USD	148,000	139,722	0.06
ams-OSRAM AG 6.00% 31/07/2025	EUR	551,000	548,332	0.25	Nokia OYJ 3.13% 15/05/2028	EUR	624,000	629,796	0.29
Klabin Austria GmbH 7.00% 03/04/2049 Sappi Papier Holding GmbH 3.63%	USD	255,000	249,950	0.11	Nokia OYJ 6.63% 15/05/2039	USD	200,000	189,832	0.09
15/03/2028	EUR	298,000	271,924	0.13	Finland total			2,983,092	1.38
Austria total		_	1,070,206	0.49	France (31 December 2021: 0.54%)		=		
Belgium (31 December 2021: 0.09%)		-			Casino Guichard Perrachon SA 4.50% 07/03/2024	EUR	400,000	352,521	0.16
Ontex Group NV 3.50% 15/07/2026	EUR	100,000	89,648	0.04	Casino Guichard Perrachon SA 3.58%				
Belgium total		_	89,648	0.04	07/02/2025 Casino Guichard Perrachon SA 4.05%	EUR	500,000	355,394	0.16
Bermuda (31 December 2021: 1.79%)		-			05/08/2026	EUR	200,000	108,528	0.05
Geopark Ltd. 5.50% 17/01/2027	USD	71,000	61,042	0.03	CGG SA 7.75% 01/04/2027 CGG SA 8.75% 01/04/2027	EUR	301,000	260,206 366,123	0.12 0.17
Geopark Ltd., 144A 5.50% 17/01/2027	USD	200,000	171,949	0.08	Parts Europe SA 6.50% 16/07/2025	USD EUR	458,000 289,000	306,893	0.17
Bermuda total		-			Quatrim SASU 5.88% 15/01/2024	EUR	128,000	133,189	0.06
Dermuda total		_	232,991	0.11	Rexel SA 2.13% 15/06/2028	EUR	319,000	297,471	0.14
Brazil (31 December 2021: 0.61%)					Rexel SA 2.13% 15/12/2028 Vallourec SA 8.50% 30/06/2026	EUR	437,000 168.000	403,463	0.19 0.08
B3 SA - Brasil Bolsa Balcao 4.13% 20/09/2031	USD	400,000	337,057	0.16	Verallia SA 1.63% 14/05/2028	EUR EUR	300,000	175,261 274,532	0.08
B3 SA - Brasil Bolsa Balcao, 144A 4.13%				0.13			-		
20/09/2031 Cemig Geracao e Transmissao SA 9.25%	USD	300,000	252,793	0.12	France total		_	3,033,581	1.40
05/12/2024	USD	957,000	981,021	0.45	Georgia (31 December 2021: 0.24%) Georgia Capital JSC 6.13% 09/03/2024	USD	346,000	328,181	0.15
Cemig Geracao e Transmissao SA, 144A 9.25% 05/12/2024	USD	467,000	478,722	0.22	•	USD	J40,000 –		
Centrais Eletricas Brasileiras SA 4.63% 04/02/2030	USD	251,000	307,125	0.14	Georgia total		_	328,181	0.15
Centrais Eletricas Brasileiras SA, 144A	นรม	351,000	307,123	0.14	Germany (31 December 2021: 1.12%)	FUD	200.000	121.004	0.06
4.63% 04/02/2030	USD	200,000	175,000	0.08	CECONOMY AG 1.75% 24/06/2026 Hapag-Lloyd AG 2.50% 15/04/2028	EUR EUR	200,000 385,000	131,996 362,283	0.06
Brazil total			2,531,718	1.17	K+S AG 3.25% 18/07/2024	EUR	400,000	421,606	0.19
Canada (31 December 2021: 2.21%)		-			Novelis Sheet Ingot GmbH 3.38% 15/04/2029	EUR	566,000	513,079	0.24
Baytex Energy Corp. 8.75% 01/04/2027	USD	277,000	281,839	0.13	Schaeffler AG 1.88% 26/03/2024	EUR	416,000	432,710	0.20
Eldorado Gold Corp. 6.25% 01/09/2029	USD	423,000	370,054	0.17	Schaeffler AG 2.75% 12/10/2025	EUR	400,000	405,582	0.19
Enerflex Ltd. 9.00% 15/10/2027	USD	104,000	103,713	0.05	Schaeffler AG 2.88% 26/03/2027	EUR	72,000	70,772	0.03
Frontera Energy Corp. 7.88% 21/06/2028 goeasy Ltd. 4.38% 01/05/2026	USD USD	250,000 276,000	207,500 244,260	0.10 0.11	Schaeffler AG 3.38% 12/10/2028 SGL Carbon SE 4.63% 30/09/2024	EUR	900,000 430,000	832,155 452,569	0.38 0.21
International Petroleum Corp. 7.25%					Techem Verwaltungsgesellschaft 675	EUR			
01/02/2027 Ritchie Bros Auctioneers, Inc. 5.38%	USD	159,000	146,280	0.07	mbH 2.00% 15/07/2025	EUR	788,000	770,560	0.36
15/01/2025	USD	713,000	700,523	0.32	Germany total			4,393,312	2.03
Taseko Mines Ltd. 7.00% 15/02/2026 TransAlta Corp. 6.50% 15/03/2040	USD USD	339,000 377,000	298,096 345,267	0.14 0.16			-		
114113A114 COTP. 0.3070 13/03/2040	นรม	3//,000	J4J,2U/	0.10					

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Gibraltar (31 December 2021; 0.00%) 888 Acquisitions Ltd. 7.56% 15/07/2027	EUR	100,000	90,917	0.04	Petrofac Ltd. 9.75% 15/11/2026 West China Cement Ltd. 4.95%	USD	463,000	261,595	0.12
Gibraltar total			90,917	0.04	08/07/2026 Jersey total	USD	600,000 –	501,150	
Greece (31 December 2021: 0.24%) Eurobank SA, FRN 2.25% 14/03/2028	EUR	339,000	293,056	0.14	Luxembourg (31 December 2021: 4.20%)		-	2,564,633	1.18
Mytilineos SA 2.25% 30/10/2026 National Bank of Greece SA, FRN 2.75%	EUR	573,000	550,789	0.25	ContourGlobal Power Holdings SA 3.13% 01/01/2028	EUR	608,000	529,925	0.24
08/10/2026 Piraeus Bank SA, FRN 3.88% 03/11/2027	EUR EUR	305,000 279,000	290,480 250,406	0.13 0.12	CSN Resources SA 5.88% 08/04/2032 CSN Resources SA, 144A 5.88%	USD	232,000	193,851	0.09
Greece total	Lan	-	1,384,731	0.64	08/04/2032 Intralot Capital Luxembourg SA 5.25%	USD	229,000	191,369	0.09
Hong Kong (31 December 2021: 0.28%)		-			15/09/2024 Petrorio Luxembourg Trading Sarl 6.13%	EUR	542,000	517,712	0.24
Yanlord Land HK Co. Ltd. 6.80% 27/02/2024	USD	596,000	557,379	0.26	09/06/2026 Rede D'or Finance Sarl 4.50%	USD	300,000	285,528	0.13
Hong Kong total		_	557,379	0.26	22/01/2030 Samsonite Finco Sarl 3.50% 15/05/2026	USD EUR	505,000 232,000	434,497 228,331	0.20 0.11
India (31 December 2021: 0.58%) JSW Hydro Energy Ltd. 4.13% 18/05/2031	HCD	- 415,065	345,957	0.16	SIG Combibloc PurchaseCo Sarl 2.13% 18/06/2025	EUR	104,000	106,549	0.05
JSW Steel Ltd. 5.38% 04/04/2025	USD	354,000	339,486	0.16	Telenet Finance Luxembourg Notes Sarl 3.50% 01/03/2028	EUR	600,000	575,899	0.27
JSW Steel Ltd. 3.95% 05/04/2027 JSW Steel Ltd. 5.05% 05/04/2032	USD USD	200,000 200,000	170,808 158,306	0.08 0.07	Telenet Finance Luxembourg Notes Sarl 5.50% 01/03/2028	USD	600,000	540,000	0.25
India total		_	1,014,557	0.47	Ultrapar International SA 5.25% 06/10/2026	USD	419,000	401,193	0.18
Indonesia (31 December 2021: 0.98%)	1160	757.000	727 260	0.33	Ultrapar International SA 5.25% 06/06/2029	USD	300,000	283,500	0.13
Adaro Indonesia PT 4.25% 31/10/2024 Bukit Makmur Mandiri Utama PT 7.75%	USD	757,000	727,369		Usiminas International Sarl 5.88% 18/07/2026	USD	221,000	214,255	0.10
10/02/2026 Cikarang Listrindo Tbk. PT 4.95%	USD	300,000	255,150	0.12	Usiminas International Sarl, 144A 5.88% 18/07/2026	USD	604,000	585,567	0.27
14/09/2026 Cikarang Listrindo Tbk. PT, 144A 4.95%	USD	490,000	456,821	0.21	Luxembourg total		_	5,088,176	2.35
14/09/2026 Japfa Comfeed Indonesia Tbk. PT 5.38%	USD	210,000	195,781		Marshall Islands (31 December 2021: 0.13%)	)	-		
23/03/2026 Kawasan Industri Jababeka Tbk. PT, STEP		527,000	448,213	0.21	Danaos Corp. 8.50% 01/03/2028	USD	387,000 –	371,520	0.17
7.00% 15/12/2027 Pakuwon Jati Tbk. PT 4.88% 29/04/2028	USD USD	140,000 200,000	84,000 176,100	0.04 0.08	Marshall Islands total		_	371,520	0.17
Saka Energi Indonesia PT 4.45% 05/05/2024	USD	402,000	383,602	0.18	Mauritius (31 December 2021: 0.44%) MTN Mauritius Investments Ltd. 4.76%				
Saka Energi Indonesia PT, 144A 4.45% 05/05/2024	USD	43,000	41,032	0.02	11/11/2024 MTN Mauritius Investments Ltd. 6.50%	USD	805,000	782,701	0.36
Indonesia total		_	2,768,068	1.28	13/10/2026	USD	224,000 –	223,470	0.10
Ireland (31 December 2021: 0.68%)	1165	472.000	227.204	0.15	Mauritius total  Mexico (31 December 2021: 1.22%)		_	1,006,171	0.46
Cimpress plc 7.00% 15/06/2026  James Hardie International Finance DAC	USD	472,000	326,294	0.15	Alsea SAB de CV 7.75% 14/12/2026	USD	576,000	571,277	0.26
3.63% 01/10/2026  James Hardie International Finance DAC	EUR	479,000	475,370	0.22	Braskem Idesa SAPI 7.45% 15/11/2029 Braskem Idesa SAPI 6.99% 20/02/2032	USD USD	909,000 663,000	717,620 469,689	0.33 0.22
5.00% 15/01/2028	USD	264,000 –	242,220	0.11	Cydsa SAB de CV 6.25% 04/10/2027 Nemak SAB de CV 3.63% 28/06/2031	USD USD	200,000 225,000	189,608 176,003	0.09 0.08
Ireland total  Isle of Man (31 December 2021: 0.33%)		-	1,043,884	0.48	Nemak SAB de CV, 144A 3.63% 28/06/2031	USD	445,000	348,094	0.16
Playtech plc 4.25% 07/03/2026	EUR	219,000	219,671	0.10	Mexico total		_	2,472,291	1.14
Isle of Man total			219,671	0.10	Multinational (31 December 2021: 0.34%)		_		
Italy (31 December 2021: 1.79%) Amplifon SpA 1.13% 13/02/2027	EUR	203,000	192,787	0.09	Herbalife Nutrition Ltd. / HLF Financing, Inc. 7.88% 01/09/2025	USD	584,000	519,170	0.24
Eolo SpA 4.88% 21/10/2028 Piaggio & C SpA 3.63% 30/04/2025	EUR EUR	310,000 164,000	232,463 171,744	0.10 0.08	Multinational total			519,170	0.24
Italy total	Luk	104,000 –	596,994	0.27	Netherlands (31 December 2021: 3.35%) Ashland Services BV 2.00% 30/01/2028	EUR	588,000	534,033	0.25
Japan (31 December 2021: 1.07%)		-			Axalta Coating Systems Dutch Holding B BV 3.75% 15/01/2025	EUR	210,000	214,221	0.10
SoftBank Group Corp. 4.00% 20/04/2023	EUR	106,000	112,224	0.05	Darling Global Finance BV 3.63% 15/05/2026	EUR	136.000	140,792	0.07
SoftBank Group Corp. 2.13% 06/07/2024 SoftBank Group Corp. 3.13% 19/09/2025	EUR EUR	569,000 571,000	569,311 547,869	0.26 0.25	Energizer Gamma Acquisition BV 3.50% 30/06/2029	EUR	308,000	261,027	0.12
SoftBank Group Corp. 5.00% 15/04/2028 SoftBank Group Corp. 4.00% 19/09/2029	EUR	713,000 100,000	643,739 81,111	0.30	First Bank of Nigeria Ltd. Via FBN Finance Co. BV 8.63% 27/10/2025			278,007	0.13
Universal Entertainment Corp. 8.50% 11/12/2024			201,424	0.04	MAS Securities BV 4.25% 19/05/2026	USD EUR	309,000 362,000	298,103	0.13
Japan total	USD	216,000 _			Mong Duong Finance Holdings BV 5.13% 07/05/2029	USD	350,000	290,527	0.13
Jersey (31 December 2021: 1.20%)		-	2,155,678 ———————	0.99	Petrobras Global Finance BV 4.75% 14/01/2025	EUR	350,000	379,141	0.17
Adient Global Holdings Ltd. 3.50% 15/08/2024	EUR	944,000	961,307	0.44	Petrobras Global Finance BV 6.75% 03/06/2050	USD	834,000	727,941	0.34
Adient Global Holdings Ltd. 4.88% 15/08/2026	USD	400,000	372,392	0.17	Petrobras Global Finance BV 6.85% 05/06/2115	USD	1,310,000	1,109,425	0.51
Avis Budget Finance plc 4.13% 15/11/2024	EUR	127,000	129,124	0.06	Samvardhana Motherson Automotive Systems Group BV 1.80% 06/07/2024	EUR	439,000	431,041	0.20
Avis Budget Finance plc 4.50% 15/05/2025	EUR	185,000	186,896	0.09	Teva Pharmaceutical Finance Netherlands II BV 4.50% 01/03/2025	EUR	383,000	391,303	0.18
Avis Budget Finance plc 4.75% 30/01/2026	EUR	153,000	152,169	0.09	Teva Pharmaceutical Finance Netherlands II BV 3.75% 09/05/2027	EUR	200,000	184,436	0.09
,,	LUIN	155,000	102,107	0.07	Teva Pharmaceutical Finance Netherlands II BV 1.63% 15/10/2028	EUR	720,000	569,937	0.26

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Teva Pharmaceutical Finance Netherlands II BV 4.38% 09/05/2030 UPC Broadband Finco BV 4.88%	EUR	967,000	849,250	0.39	United Kingdom (31 December 2021: 2.87%, Drax Finco plc 6.63% 01/11/2025 International Game Technology plc	USD	612,000	583,396	0.27
15/07/2031	USD	350,000	291,128	0.13	3.50% 15/07/2024	EUR	248,000	262,687	0.12
UPC Holding BV 5.50% 15/01/2028 UPC Holding BV 3.88% 15/06/2029	USD EUR	409,000 253,000	362,987 223,572	0.17 0.10	International Game Technology plc 3.50% 15/06/2026	EUR	176,000	178,340	0.08
Netherlands total		-	7,536,871	3.48	International Personal Finance plc 9.75% 12/11/2025	EUR	188,000	164,566	0.08
Nigeria (31 December 2021: 0.00%)					Jaguar Land Rover Automotive plc 2.20% 15/01/2024	EUR	670,000	677,660	0.31
Fidelity Bank plc 7.63% 28/10/2026 SEPLAT Energy plc 7.75% 01/04/2026	USD USD	400,000 400,000	334,800 316,016	0.15 0.15	Jaguar Land Rover Automotive plc 5.88% 15/11/2024	EUR	582,000	583,436	0.27
Nigeria total			650,816	0.30	Jaguar Land Rover Automotive plc 4.50% 15/01/2026	EUR	100.000	91,442	0.04
Peru (31 December 2021: 0.00%)		=			Jaguar Land Rover Automotive plc 6.88% 15/11/2026	EUR	613,000	578,989	0.27
Compania de Minas Buenaventura SAA 5.50% 23/07/2026	USD	373,000	319,875	0.15	MARB BondCo plc 3.95% 29/01/2031 MARB BondCo plc, 144A 3.95%	USD	200,000	154,400	0.07
Compania de Minas Buenaventura SAA, 144A 5.50% 23/07/2026	USD	289,000	247,838	0.11	29/01/2031	USD	36,000	27,633	0.01
InRetail Consumer 3.25% 22/03/2028	USD	200,000	171,977	0.08	Marks & Spencer plc 7.13% 01/12/2037 Nomad Foods Bondco plc 2.50%	USD	271,000	237,660	0.11
Minsur SA 4.50% 28/10/2031 Minsur SA, 144A 4.50% 28/10/2031	USD USD	200,000 456,000	173,750 396,150	0.08 0.18	24/06/2028	EUR	353,000	317,214	0.15
	dob	450,000			TI Automotive Finance plc 3.75% 15/04/2029	EUR	300,000	235,745	0.11
Peru total			1,309,590	0.60	Virgin Media Finance plc 3.75% 15/07/2030	EUR	134,000	109,318	0.05
Puerto Rico (31 December 2021: 0.00%) Autopistas Metropolitanas de Puerto Rico					Virgin Media Finance plc 5.00%				
LLC 6.75% 30/06/2035	USD	1,390	1,285	0.00	15/07/2030 Virgin Media Secured Finance plc 5.50%	USD	840,000	673,730	0.31
Puerto Rico total			1,285	0.00	15/05/2029 Virgin Media Secured Finance plc 4.50%	USD	920,000	824,118	0.38
Romania (31 December 2021: 0.23%) RCS & RDS SA 3.25% 05/02/2028	EUR	400,000	339,526	0.16	15/08/2030	USD	415,000	346,701	0.16
Romania total			339,526	0.16	United Kingdom total		-	6,047,035	2.79
Singapore (31 December 2021: 0.92%)					United States (31 December 2021: 55.25%) 180 Medical, Inc. 3.88% 15/10/2029	USD	372,000	319,808	0.15
ABJA Investment Co. Pte Ltd. 5.95% 31/07/2024	USD	313,000	311,873	0.15	Academy Ltd. 6.00% 15/11/2027 Acadia Healthcare Co., Inc. 5.00%	USD	203,000	194,346	0.09
APL Realty Holdings Pte Ltd. 5.95%					15/04/2029 Adtalem Global Education, Inc. 5.50%	USD	301,000	276,830	0.13
02/06/2024 Indika Energy Capital IV Pte Ltd. 8.25%	USD	200,000	94,360	0.04	01/03/2028	USD	622,000	564,465	0.26
22/10/2025	USD	250,000	246,425	0.11	Advanced Drainage Systems, Inc. 5.00% 30/09/2027	USD	466,000	434,545	0.20
Singapore total			652,658	0.30	AECOM 5.13% 15/03/2027 Alliance Resource Operating Partners LP	USD	1,037,000	998,112	0.46
Spain (31 December 2021: 0.77%) eDreams ODIGEO SA 5.50% 15/07/2027	EUR	452,000	378,682	0.17	/ Alliance Resource Finance Corp. 7.50% 01/05/2025	USD	686,000	680,855	0.31
Food Service Project SA 5.50% 21/01/2027	EUR	123,000	120,959	0.06	Allison Transmission, Inc. 5.88% 01/06/2029	USD	638,000	599,146	0.28
Gestamp Automocion SA 3.25% 30/04/2026	EUR	324,000	325,899	0.15	Allison Transmission, Inc. 3.75% 30/01/2031	USD	666,000	547,785	0.25
Neinor Homes SA 4.50% 15/10/2026	EUR	299,000	269,901	0.12	American Axle & Manufacturing, Inc. 6.50% 01/04/2027	USD	599,000	540,288	0.25
Spain total			1,095,441	0.50	American Axle & Manufacturing, Inc. 6.88% 01/07/2028	USD	296,000	263,899	0.12
Sweden (31 December 2021: 0.34%) Dometic Group AB 3.00% 08/05/2026	EUR	133,000	131,173	0.06	American Axle & Manufacturing, Inc.				
Intrum AB 3.13% 15/07/2024	EUR	311,624	318,446	0.15	5.00% 01/10/2029 AmeriGas Partners LP / AmeriGas	USD	347,000	279,777	0.13
Intrum AB 3.00% 15/09/2027 Volvo Car AB 2.13% 02/04/2024	EUR	100,000	84,649	0.04	Finance Corp. 5.50% 20/05/2025	USD	569,000	546,709	0.25
Volvo Car AB 2.50% 07/10/2027	EUR EUR	419,000 141,000	433,190 132,303	0.20 0.06	AmeriGas Partners LP / AmeriGas Finance Corp. 5.88% 20/08/2026	USD	146,000	138,658	0.06
Volvo Car AB 4.25% 31/05/2028	EUR	642,000	626,935	0.29	AmeriGas Partners LP / AmeriGas Finance Corp. 5.75% 20/05/2027	USD	239,000	222,119	0.10
Sweden total			1,726,696	0.80	Amkor Technology, Inc. 6.63% 15/09/2027	USD	510,000	504,706	0.23
Turkey (31 December 2021: 2.57%)			202 202	0.13	AMN Healthcare, Inc. 4.63% 01/10/2027	USD	279,000	257,258	0.12
Arcelik A/S 3.00% 27/05/2026 ONB Finansbank A/S 6.88% 07/09/2024	EUR USD	293,000 400,000	282,392 407,699	0.13 0.19	AMN Healthcare, Inc. 4.00% 15/04/2029	USD	77,000	65,892	0.03
Turk Telekomunikasyon A/S 4.88%	asb	400,000	107,077	0.17	ANGI Group LLC 3.88% 15/08/2028 Apache Corp. 4.38% 15/10/2028	USD USD	380,000 111.000	281,992 99,907	0.13 0.05
19/06/2024	USD	381,000	356,959	0.17	Apache Corp. 4.25% 15/01/2030	USD	550,000	486,699	0.22
Turk Telekomunikasyon A/S 6.88% 28/02/2025	USD	326,000	306,955	0.14	Apache Corp. 5.10% 01/09/2040	USD	890,000	737,554	0.34
Turk Telekomunikasyon A/S, 144A 6.88%			376,632	0.17	Apache Corp. 4.75% 15/04/2043 Arcosa, Inc. 4.38% 15/04/2029	USD USD	133,000 254,000	100,348 220,264	0.05 0.10
28/02/2025 Turkcell Iletisim Hizmetleri A/S 5.75% 15/10/2025	USD	400,000	299,331	0.14	Asbury Automotive Group, Inc. 4.50% 01/03/2028	USD	670,000	589,868	0.27
Turkcell Iletisim Hizmetleri A/S 5.80%	USD	319,000			Asbury Automotive Group, Inc. 4.63% 15/11/2029	USD	796,000	670,741	0.31
11/04/2028 Turkiye Petrol Rafinerileri A/S 4.50%	USD	310,000	266,569	0.12	Asbury Automotive Group, Inc. 4.75% 01/03/2030	USD	73,000	61,054	0.03
18/10/2024 Turkiye Petrol Rafinerileri A/S, 144A	USD	250,000	239,275	0.11	Asbury Automotive Group, Inc. 5.00% 15/02/2032			168,653	0.03
4.50% 18/10/2024 Turkiye Sise ve Cam Fabrikalari A/S	USD	378,000	361,784	0.17	ASGN, Inc. 4.63% 15/05/2028	USD USD	205,000 316,000	286,043	0.13
6.95% 14/03/2026	USD	778,000	757,459	0.35	Ashland LLC 6.88% 15/05/2043 Atkore, Inc. 4.25% 01/06/2031	USD USD	72,000 464,000	70,560 397,880	0.03 0.18
Turkey total			3,655,055	1.69	Avantor Funding, Inc. 3.88% 15/07/2028	EUR	562,000	550,911	0.16
United Arab Emirates (31 December 2021: 0 Oztel Holdings SPC Ltd. 5.63%	0.61%)	-			Bath & Body Works, Inc. 9.38% 01/07/2025	USD	435,000	463,355	0.21
24/10/2023	USD	400,000	397,039	0.18	Bath & Body Works, Inc. 7.50% 15/06/2029	USD	534,000	527,165	0.24
United Arab Emirates total		-	397,039	0.18	Bath & Body Works, Inc. 6.95% 01/03/2033	USD	884,000	771,291	0.36

Schedule of Investments (continued)

Ball A Don's Person 10 - 5	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Series from 1976   19		HCD	222.000	207 115	0.12		HCD	222,000	210 926	0.14
1,000,000,000,000,000,000,000,000,000,0	- , ,	นวบ	323,000	207,113	0.13					
Permy Proposed Co. LCT 700%   150	01/07/2036		-,			DaVita, Inc. 3.75% 15/02/2031				
Book Professional Professiona	Berry Petroleum Co. LLC 7.00%					Logistics Finance Corp. 7.13%				
Compage   Comp		USD	615,000	564,838	0.26					
Sept Commission Comp. 1-4799 (01)24/26/27   059   95-000   95-2070   95-20		USD	1,142,000	1,011,769	0.47		นวบ	415,000	541,550	0.10
Belgeloughe Intercental Group   15.00   12.000						Sports Finance Co. 5.38% 15/08/2026	USD	371,000	43,593	0.02
\$1,000		USD	233,000	202,/10	0.09					
20060006   1000   100	4.80% 27/07/2026	USD	134,000	120,715	0.06	15/08/2026	USD	715,000	84,013	0.04
Signature   Sign	30/06/2028	USD	51,000	45,836	0.02	CoObligor, Inc. 5.88% 15/08/2027				
10/12/20/20/20/20/20/20/20/20/20/20/20/20/20		USD	200,000	175,039	0.08					
Composition		IISD	667 000	641.014	0.30					
Carsing Personal Large (1996/2009)   USD   24,000   270,187   0.00   0	Cargo Aircraft Management, Inc. 4.75%					Earthstone Energy Holdings LLC 8.00%				
Carston, inc. 6.388 (071)7078			,				USD	517,000	494,588	0.23
Control Clark Sept   Control							USD	604,000	564,879	0.26
Cedural Fair IP S-25th 15/07/2020   05   41,000   80,009   00,000   00,00		FUD	701.000	(02 F0 4	0.22		HCD	3/0.000	227 000	0.11
Control Cont									,	
Milefrient 0 5/389   5/04/2027   USD   294,000   280,770   OLD   15/08/2028   USD   330,000   665,000   OLD   OL	Cedar Fair LP / Canada's Wonderland Co.		,	, , ,		Embecta Corp. 5.00% 15/02/2030				
Sergence   Learning Inc. 9.50%   USD   050,000   642,856   Carl   Display   Carl   C		USD	294,000	280,770	0.13		USD	331.000	164,530	0.08
Permiss Resources Operating LLC 6.88%   USD   257,000   242,155   O.10   O.10/2/2033   USD   O.00,000   333,497   O.10		IISD	695,000	662 856	0.31				681 300	0.31
Central Gardie & Ret Co. 4.13%   USD	Permian Resources Operating LLC 6.88%					Encompass Health Corp. 4.75%				
15/10/2038   USB   040,000   334,4		USD	257,000	242,155	0.11		USD	357,000	313,497	0.14
30/04/2031   USD   20,000   16,5.565   0.08   15/10/2025   USD   10,000   25/255   0.08   USD   10,000   25/255   0.08   USD   10,000   0.02   0.02   USD   10,000   0.02   USD   10,000   0.02   USD   10,000   0.02   USD   10,000   U		USD	406,000	333,490	0.15	01/04/2031	USD	100,000	85,952	0.04
Inc. 4.29% 6/10/5/2028   USD   \$75,000   \$29,558   0.24   Finesy 6.43% ISD/2027   USD   \$50,000   45,000   0.02	30/04/2031	USD	200,000	165,565	0.08	15/10/2025				
Charles River Laboratories International, Inc. 4.00%   1507/2026   USD   58,000   53,638   0.07		USD	575,000	529,558	0.24					
Chemours Co. (The) -3.09% 15/05/2026   EUR   515,000   143,855   0.07   Fair Issac Corp. \$298 15/05/2026   USD   550,000   137,234   0.07		HED	402.000	437.445	0.20	Enova International, Inc. 8.50%	asb	30,000		
Demours Co. Chies   5.398   15/05/2027   USD   35,000   124.664   0.06   Fair Issat Cup. A 10/09   15/06/2028   USD   90,000   817.663   0.38										
Chemours Co. (The) 5.79% 15/11/2029   USD   \$89,000   \$29,007   0.24   Ferrelligas Finance Corp.   USD   \$29,000   \$64,070   0.24   Chesapaske Energy Corp. 6.50%   USD   720,000   694,782   0.35   5.88% 0/10/4/2026   USD   546,000   449,041   0.21   5.88% 0/10/4/2028   USD   570,000   590,888   0.27   0.27   0.27   0.28   First Cash, Inc. 4.63% 0/10/2020   USD   275,000   244,768   0.21					0.06					
Pesragaske Energy Corp. 5.509%   USD   720,000   694,782   O.35   S.889 (01/04/2029   USD   673,000   490,941   O.21   O.22								201.000	24.707	0.13
0,102/2026   USD   72,000   694,782   0,32   5,88% 01/04/2029   USD   673,000   590,88%   0,27   15/04/2029   USD   622,000   605,579   0,28   FirstCash, Inc. 6,63% 01/01/2030   USD   275,000   244,768   0,11   15/04/2029   USD   74,000   701,123   0,32   5,88% 01/01/2030   USD   275,000   244,768   0,11   15/04/2026   USD   74,000   701,123   0,32   5,88% 15/10/2027   USD   72,000   668,570   0,31   15/04/2026   USD   74,000   701,123   0,32   5,88% 15/10/2027   USD   72,000   668,570   0,31   15/04/2026   USD   74,000   324,838   0,101/2030   USD   250,00% 01/05/2028   USD   280,000   1,16,186   0,52   15/04/2026   USD   74,000   447,862   USD   74,000   447,862   USD   74,000   1,16,186   USD   74,000   USD   74,000   1,16,186   US		USD	222,000	101,400	0.06		USD	291,000	264,707	0.12
15/04/2029		USD	720,000	694,782	0.32	5.88% 01/04/2029				
Chord Energy Corp. 6.3398 0.106/c/2026		USD	622,000	605,579	0.28					
Churchill Downs, Inc. 4.79% Is/JOI/2028   USD   363,000   324,838   O.15   Frontier Communications Holdings LLC   Clean Harbors, Inc. 4.88% Is/JOI/2027   USD   693,000   656,617   O.30   Frontier Communications Holdings LLC   Clean Harbors, Inc. 4.88% Is/JOI/2029   USD   372,000   307,741   O.14   Clean Harbors, Inc. 5.13% Is/JOI/2026   USD   65,000   60,0284   O.03   Frontier Communications Holdings LLC   Frontier Communications Holdings LLC   See Sale						Frontier Communications Holdings LLC	030	275,000		
Company   Comp							USD	720,000	668,570	0.31
Capeal Communications Group, Inc.   USD   372,000   307,41   0.14   0.14   0.14   0.15   0.							USD	1,280,000	1,116,186	0.52
Solution   Communications Forup, Inc.   Solution   So							HCD	373.000	207.741	0.14
1.50   1.50		USD	65,000	60,284	0.03		usp	372,000	307,741	0.14
Tools   Tool	3.50% 01/05/2026	USD	493,000	447,862	0.21	5.88% 01/11/2029		-,		
Coinbase Global, Inc. 3.38% 01/10/2028   USD   938.000   495.827   0.23   15/02/2028   USD   232.000   205.392   0.10   Coinbase Global, Inc. 3.38% 01/10/2031   USD   560.000   269.703   0.12   Gartner, Inc. 3.63% 15/06/2029   USD   764.000   712.300   0.33   Condor Merger Sub, Inc. 7.33%   USD   509.000   376.971   0.17   15/02/2030   USD   599.000   514.595   0.24   Consensus Cloud Solutions, Inc. 6.00%   USD   579.000   514.595   0.24   Consensus Cloud Solutions, Inc. 6.00%   USD   67.000   62.661   0.03   15/01/2026   USD   661.000   637.865   0.29   Consensus Cloud Solutions, Inc. 6.50%   USD   268.000   246.498   0.11   Genworth Holdings, Inc. 6.50%   USD   338.000   332.085   0.15   15/10/2028   USD   808.000   828.604   0.38   15/06/2034   USD   338.000   332.085   0.15   16/00/2036   USD   336.000   336.000   336.300   332.085   0.15   16/00/2036   USD   336.000   336.		IISD	80.000	78 394	0.04		USD	121,000	111,420	0.05
Conder Merger Sub, Inc. 7.38%   USD   1,533,000   1,232,579   0.57   Gartner, Inc. 3.63%   15/06/2029   USD   429,000   376,971   0.17						15/02/2028				
15/02/2030   15/30/2032   15/30/2032   15/		USD	560,000	269,703	0.12					
Consensus Cloud Solutions, Inc. 6.09%		USD	1.533.000	1,232,579	0.57					
Consensus Cloud Solutions, Inc. 6.50%   USD   268,000   246,498   0.11   15/10/2028   USD   268,000   828,604   0.38   15/06/2034   USD   338,000   332,085   0.15   16/10/2027   USD   174,000   150,774   0.07   Corecivic, Inc. 3.88% 15/04/2026   USD   167,000   141,503   0.07   Corecivic, Inc. 4.78% 15/10/2027   USD   174,000   150,774   0.07   Corecivic, Inc. 3.88% 15/04/2026   USD   167,000   155,761   0.07   Corecivic, Inc. 4.78% 15/10/2029   USD   364,000   396,372   0.18   15/08/2025   USD   167,000   155,761   0.07   Corecivic, Inc. 4.78% 15/04/2026   USD   364,000   329,420   0.15   Colden Partners LP / GLP Finance Corp. 6.88% 15/04/2029   USD   364,000   329,420   0.15   Colden Partners LP / GLP Finance Corp. 6.88% 15/04/2029   USD   408,000   402,131   0.19   Covanta Holding Corp. 4.88% 01/12/2029   USD   805,000   659,512   0.30   I15,478   0.05   Grafiam Holdings Co. 5.75% 01/06/2028   USD   400,000   328,489   0.15   0.16   0.		HCD	67,000	62 661	0.03		HCD		627 045	0.20
CoreCivic, Inc. 8.25% 15/04/2026	Consensus Cloud Solutions, Inc. 6.50%					Gen Digital, Inc. 7.13% 30/09/2030				
Coreclivic, Inc. 3.75% I5/10/2027							IISD	161 000	141 503	0.07
Coty, Inc./HFC Prestige Products, Inc./HFC Prestige International US LLC 4/75% IS/O1/2029 USD 364,000 329,420 0.15 60dden Entertainment, Inc. 7.63% USD 311,000 284,898 0.13 4,75% IS/O1/2029 USD 805,000 659,512 0.30 IS/O4/2026 USD 400,000 328,489 0.15 (Olden Entertainment, Inc. 7.63% USD 408,000 402,131 0.19 (Oranta Holding Corp. 5.00% USD 143,000 115,478 0.05 Graham Holdings Cor. 5.75% 01/06/2026 USD 400,000 328,489 0.15 (Oranta Holding Corp. 5.13% USD 390,000 366,514 0.17 23/05/2027 USD 250,000 202,514 0.09 (Oranta Holding Corp. 6.63% USD 361,000 342,097 0.16 3.75% 01/02/2030 USD 408,000 USD 408,000 380,791 0.18 (Oranta Entertainment) USD 361,000 342,097 0.16 3.75% 01/02/2030 USD 448,000 380,791 0.18 (Oranta Entertainment) USD 422,000 357,476 0.17 (Oranta Entertainment) USD 361,000 341,225 0.19 01/06/2029 USD 420,000 USD 448,000 380,791 0.18 (Oranta Entertainment) USD 361,000 341,225 0.19 01/06/2029 USD 340,000 104,172 0.05 (Oranta Entertainment) USD 361,000 174,920 0.8 (Hecla Mining Corp. 5.75% 01/03/2028 USD 834,000 763,110 0.35 (Oranta Entertainment) USD 361,000 377,797 0.16 (Illient) USD 448,000 377,797 0.17 (Illient) USD 522,000 448,920 0.25 (USD 584,000 377,797 0.14 (Illient) USD 584,000 377,797 0.17 (Illient) USD 584,000 176,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC / Illient) USD 584,000 0.20 (USD 584,000 0.20,11 0.11 UCC							usb	101,000	141,505	0.07
Inc./HFC Prestige International US LLC   4.75% I5/01/2029		EUR	400,000	396,372	0.18		USD	167,000	155,761	0.07
Covanta Holding Corp. 4.88% 01/12/2029 USD 805,000 659,512 0.30 15/04/2026 USD 408,000 402,131 0.19 (Covanta Holding Corp. 5.00% 01/09/2030 USD 143,000 115,478 0.05 Graham Holdings Co. 5.75% 01/06/2026 USD 238,000 233,859 0.15 (Ordit Acceptance Corp. 5.13% 0.5 Graham Holdings Co. 5.75% 01/06/2026 USD 238,000 233,859 0.11 (Gran Tierra Energy, Inc. 7.75% 01/06/2024 USD 250,000 202,514 0.09 (Graphic Packaging International LLC 15/03/2026 USD 250,000 202,514 0.09 (Graphic Packaging International LLC 15/03/2026 USD 422,000 357,476 0.17 (Graet Lakes Dredge & Dock Corp. 5.25% (Graphic Packaging International LLC 15/03/2029 USD 422,000 357,476 0.17 (Graet Lakes Dredge & Dock Corp. 5.25% (Graphic Packaging International LLC 15/03/2026 USD 134,000 104,172 0.05 (Griffon Corp. 5.75% 01/03/2028 USD 834,000 763,110 0.35 (Griffon Corp. 5.75% 01/03/2028 USD 834,000 763,110 0.35 (Griffon Corp. 5.25% 15/02/2028 USD 429,000 409,420 0.19 (Hilton Domestic Operating Co., Inc. C. 25% 15/02/2028 USD 434,000 377,797 0.17 (Hilton Grand Vacations Borrower Escrow Dana, Inc. 5.38% 15/11/2027 USD 247,000 229,121 0.11 LLC / Hilton Grand Vacations Borrower Escrow Dana, Inc. 5.38% 15/06/2028 USD 584,000 531,245 0.25 (USD 0.106/2029 USD 522,000 448,920 0.21	Inc./HFC Prestige International US LLC					6.88% 15/01/2029	USD	311,000	284,898	0.13
Covanta Holding Corp. 5.00% 01/09/2030 USD 143,000 115,478 0.05 Graham Holdings Co. 5.75% 01/06/2026 USD 238,000 233,859 0.11 Credit Acceptance Corp. 5.13% 31/12/2024 USD 390,000 366,514 0.17 23/05/2027 USD 390,000 366,514 0.17 23/05/2027 USD 361,000 342,007 0.16 3.75% 01/02/2030 USD 448,000 380,791 0.18 Crocs, Inc. 4.25% 15/03/2029 USD 422,000 357,476 0.17 Great Lakes Dredge & Dock Corp. 5.25% Crocs, Inc. 4.13% 15/08/2031 USD 296,000 241,225 0.11 01/06/2029 USD 429,000 409,420 0.19 Hilton Domestic Operating Co., Inc. CVR Energy, Inc. 5.25% 15/02/2028 USD 434,000 377,797 0.17 Hilton Grand Vacations Borrower Dana, Inc. 5.38% 15/01/2028 USD 584,000 531,245 0.25 USD 244,000 0.21 USD 440,000 328,489 0.15 Graham Holdings Co. 5.75% 01/06/2028 USD 400,000 202,514 0.09 Graham Holdings Co. 5.75% 01/06/2028 USD 448,000 380,791 0.18 Graham Holdings Co. 5.75% 01/02/2030 USD 448,000 380,791 0.18 Graham Holdings Co. 5.75% 01/02/2030 USD 448,000 380,791 0.18 USD 448,000 380,791 0.18 USD 448,000 380,791 0.18 USD 448,000 380,791 0.18 USD 448,000 104,172 0.05 Griffon Corp. 5.75% 01/03/2028 USD 134,000 104,172 0.05 Griffon Corp. 5.75% 01/03/2028 USD 834,000 763,110 0.35 USD 834,000 763,110 0.35 USD 429,000 409,420 0.19 Hilton Domestic Operating Co., Inc. USD 435,000 872,872 0.40 USD 434,000 377,797 0.17 Hilton Grand Vacations Borrower Escrow Dana, Inc. 5.38% 15/11/2027 USD 247,000 229,121 0.11 LLC / Hilton Grand Vacations Borrower Dana, Inc. 5.38% 15/11/2027 USD 584,000 531,245 0.25							IISD	408 000	402 131	0.19
Credit Acceptance Corp. 5.13%   Sport Corp. 6.63%   Sport Corp.		นวบ	805,000	039,312	0.30					
31/12/2024 USD 390,000 366,514 0.17 23/05/2027 USD 250,000 202,514 0.09 Credit Acceptance Corp. 6.63% 15/03/2026 USD 361,000 342,097 0.16 3.75% 01/02/2030 USD 448,000 380,791 0.18 Crocs, Inc. 4.25% 15/03/2029 USD 422,000 357,476 0.17 Great Lakes Dredge & Dock Corp. 5.25% Crocs, Inc. 4.13% 15/08/2031 USD 296,000 241,225 0.11 01/06/2029 USD 134,000 104,172 0.05 CTR Partnership LP / CareTrust Capital Corp. 3.88% 30/06/2028 USD 207,000 174,920 0.08 Hecla Mining Co. 7.25% 15/02/2028 USD 556,000 547,455 0.25 USD 306,75% 15/05/2028 USD 429,000 409,420 0.19 Hilton Domestic Operating Co., Inc. C. 25% 15/02/2025 USD 518,000 476,560 0.22 3.63% 15/02/2032 USD 1,090,000 872,872 0.40 CVR Energy, Inc. 5.75% 15/02/2028 USD 244,000 377,797 0.17 Hilton Grand Vacations Borrower Escrow Dana, Inc. 5.38% 15/11/2027 USD 247,000 229,121 0.11 LLC / Hilton Grand Vacations Borrower USD 52,000 448,920 0.21		USD	143,000	115,478	0.05		USD	238,000	233,859	0.11
15/03/2026         USD         361,000         342,097         0.16         3.75% 01/02/2030         USD         448,000         380,791         0.18           Crocs, Inc. 4.25% 15/03/2029         USD         422,000         357,476         0.17         Great Lakes Dredge & Dock Corp. 5.25%         USD         134,000         104,172         0.05           Crocs, Inc. 4.13% 15/08/2031         USD         296,000         241,225         0.11         0.10/06/2029         USD         134,000         104,172         0.05           CTR Partnership LP / CareTrust Capital         USD         207,000         174,920         0.08         Hecla Mining Co. 7.25% 15/02/2028         USD         556,000         547,455         0.25           Cushman & Wakefield US Borrower LLC         Hillenbrand, Inc. 3.75% 01/03/2031         USD         435,000         356,700         0.16           6.75% 15/05/2028         USD         429,000         409,420         0.19         Hilton Domestic Operating Co., Inc.         USD         1,090,000         872,872         0.40           CVR Energy, Inc. 5.75% 15/02/2028         USD         434,000         377,797         0.17         Hilton Grand Vacations Borrower Escrow         USD         1,090,000         872,872         0.40           Dana, Inc. 5.38% 15/10/2027		USD	390,000	366,514	0.17	23/05/2027	USD	250,000	202,514	0.09
Crocs, Inc. 4.25% 15/03/2029 USD 422,000 357,476 0.17 Great Lakes Dredge & Dock Corp. 5.25% USD 134,000 104,172 0.05 (TR Partnership LP / CareTrust Capital Corp. 3.88% 30/06/2028 USD 207,000 174,920 0.08 Hecla Mining Co. 7.25% 15/02/2028 USD 556,000 547,455 0.25 (Ushman & Wakefield US Borrower LLC 6.75% 15/05/2028 USD 429,000 409,420 0.19 Hilton Domestic Operating Co., Inc. CVR Energy, Inc. 5.25% 15/02/2028 USD 518,000 476,560 0.22 3.63% 15/02/2032 USD 1,090,000 872,872 0.40 (VR Energy, Inc. 5.75% 15/02/2028 USD 434,000 377,797 0.17 Hilton Grand Vacations Borrower Escrow Dana, Inc. 5.38% 15/10/2028 USD 584,000 531,245 0.25 Esc 5.00% 01/06/2029 USD 522,000 448,920 0.21		IISD	361 000	342.097	0.16		IISD	448 000	380.791	0.18
CTR Partnership LP / CareTrust Capital  Corp. 3.88% 30/06/2028  USD 207,000 174,920 0.08 Hecla Mining Co. 7.25% 15/02/2028 USD 556,000 547,455 0.25  Cushman & Wakefield US Borrower LLC  6.75% 15/05/2028  USD 429,000 409,420 0.19  Hillenbrand, Inc. 3.75% 01/03/2031 USD 435,000 356,700 0.16  6.75% 15/05/2028  USD 518,000 476,560 0.22 3.63% 15/02/2032 USD 1,090,000 872,872 0.40  CVR Energy, Inc. 5.75% 15/02/2028  USD 434,000 377,797 0.17 Hilton Grand Vacations Borrower Escrow  Dana, Inc. 5.38% 15/11/2027  USD 247,000 229,121 0.11 LLC / Hilton Grand Vacations Borrower  Dana, Inc. 5.63% 15/06/2028  USD 584,000 531,245 0.25 Esc 5.00% 01/06/2029 USD 522,000 448,920 0.21							usb	440,000		
Corp. 3.88% 30/06/2028         USD         207,000         174,920         0.8         Hecla Mining Co. 7.25% 15/02/2028         USD         556,000         547,455         0.25           Cushman & Wakefield US Borrower LLC         USD         429,000         409,420         0.19         Hillenbrand, Inc. 3.75% 01/03/2031         USD         435,000         356,700         0.16           6.75% 15/05/2028         USD         429,000         476,560         0.22         3.63% 15/02/2032         USD         1,090,000         872,872         0.40           CVR Energy, Inc. 5.75% 15/02/2028         USD         434,000         377,797         0.17         Hilton Grand Vacations Borrower Escrow         USD         1,090,000         872,872         0.40           Dana, Inc. 5.38% 15/11/2027         USD         247,000         229,121         0.11         LLC / Hilton Grand Vacations Borrower         USD         522,000         448,920         0.21	Crocs, Inc. 4.13% 15/08/2031					01/06/2029				
Cushman & Wakefield US Borrower LLC 6.75% 15/05/2028 USD 429,000 409,420 0.19 Hilton Domestic Operating Co., Inc. CVR Energy, Inc. 5.25% 15/02/2028 USD 518,000 476,560 0.22 3.63% 15/02/2032 USD 518,000 476,560 0.22 USD 518,000 USD 518,000 0.25 USD 522,000 0.25 USD		USD	207.000	174.920	0.08					
CVR Energy, Inc. 5.25% 15/02/2025 USD 518,000 476,560 0.22 3.63% 15/02/2032 USD 1,090,000 872,872 0.40 CVR Energy, Inc. 5.75% 15/02/2028 USD 434,000 377,797 0.17 Hilton Grand Vacations Borrower Escrow Dana, Inc. 5.38% 15/11/2027 USD 247,000 229,121 0.11 LLC / Hilton Grand Vacations Borrower Dana, Inc. 5.63% 15/06/2028 USD 584,000 531,245 0.25 Esc 5.00% 01/06/2029 USD 522,000 448,920 0.21	Cushman & Wakefield US Borrower LLC					Hillenbrand, Inc. 3.75% 01/03/2031				
CVR Energy, Inc. 5.75% 15/02/2028 USD 434,000 377,797 0.17 Hilton Grand Vacations Borrower Escrow Dana, Inc. 5.38% 15/11/2027 USD 247,000 229,121 0.11 LLC / Hilton Grand Vacations Borrower Dana, Inc. 5.63% 15/06/2028 USD 584,000 531,245 0.25 Esc 5.00% 01/06/2029 USD 522,000 448,920 0.21							lich	1 000 000	Q77 077	0.40
Dana, Inc. 5.38% 15/11/2027         USD         247,000         229,121         0.11         LLC / Hilton Grand Vacations Borrower           Dana, Inc. 5.63% 15/06/2028         USD         584,000         531,245         0.25         Esc 5.00% 01/06/2029         USD         522,000         448,920         0.21							นวก	1,070,000	0/2,0/2	0.40
Build, Het 3.03 / 13/ 00/ 2020 U.S. 304,000 331,2 13 0.23	Dana, Inc. 5.38% 15/11/2027	USD	247,000	229,121	0.11	LLC / Hilton Grand Vacations Borrower	LICE	E33.000	440 020	0.21
						L3C J.UU70 U1/U0/ZUZY	นรม	522,000	440,920	0.21

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Hilton Grand Vacations Borrower Escrow					Mueller Water Products, Inc. 4.00%	uco	554000	407.020	0.22
LLC / Hilton Grand Vacations Borrower Esc 4.88% 01/07/2031	USD	381,000	310,954	0.14	15/06/2029 Murphy Oil Corp. 5.75% 15/08/2025	USD USD	554,000 177,000	486,828 173,920	0.22 0.08
HLF Financing Sarl LLC / Herbalife International, Inc. 4.88% 01/06/2029	USD	447,000	307,880	0.14	Murphy Oil Corp. 5.88% 01/12/2027	USD	150,000	144,344	0.07
Hologic, Inc. 4.63% 01/02/2028	USD	104,000	97,999	0.05	Murphy Oil Corp. 6.13% 01/12/2042 Murphy Oil USA, Inc. 4.75% 15/09/2029	USD USD	276,000 678,000	215,280 620,390	0.10 0.29
Hologic, Inc. 3.25% 15/02/2029	USD	534,000	458,544	0.21	NBM US Holdings, Inc. 6.63%	USD	078,000	020,570	
Horizon Therapeutics USA, Inc. 5.50% 01/08/2027	USD	618,000	634,377	0.29	06/08/2029	USD	448,000	432,669 652,277	0.20
Hughes Satellite Systems Corp. 5.25%					News Corp. 3.88% 15/05/2029 News Corp. 5.13% 15/02/2032	USD USD	752,000 487,000	443,170	0.30 0.20
01/08/2026	USD	780,000	748,176	0.35	Nexstar Media, Inc. 5.63% 15/07/2027	USD	446,000	409,141	0.19
Hughes Satellite Systems Corp. 6.63% 01/08/2026	USD	866,000	807,753	0.37	Nexstar Media, Inc. 4.75% 01/11/2028	USD	709,000	613,285	0.28 0.14
IAA, Inc. 5.50% 15/06/2027	USD	445,000	434,148	0.20	NMI Holdings, Inc. 7.38% 01/06/2025 Northern Oil & Gas, Inc. 8.13%	USD	301,000	304,010	0.14
Icahn Enterprises LP / Icahn Enterprises Finance Corp. 4.75% 15/09/2024	USD	683,000	654,827	0.30	01/03/2028	USD	570,000	547,311	0.25
Icahn Enterprises LP / Icahn Enterprises					NRG Energy, Inc. 6.63% 15/01/2027 NRG Energy, Inc. 5.75% 15/01/2028	USD USD	185,000 188,000	183,437 176,470	0.08
Finance Corp. 5.25% 15/05/2027 Icahn Enterprises LP / Icahn Enterprises	USD	539,000	493,508	0.23	NRG Energy, Inc. 5.25% 15/06/2029	USD	283,000	249,815	0.12
Finance Corp. 4.38% 01/02/2029	USD	451,000	381,388	0.18	NRG Energy, Inc. 3.63% 15/02/2031	USD	373,000	283,554	0.13
Ingles Markets, Inc. 4.00% 15/06/2031	USD	143,000	120,269	0.06 0.09	NRG Energy, Inc. 3.88% 15/02/2032 Occidental Petroleum Corp. 6.60%	USD	403,000	302,673	0.14
IQVIA, Inc. 1.75% 15/03/2026 IQVIA, Inc. 2.25% 15/01/2028	EUR EUR	197,000 815,000	192,114 763,257	0.09	15/03/2046	USD	485,000	499,060	0.23
IQVIA, Inc. 2.88% 15/06/2028	EUR	210,000	199,469	0.09	ON Semiconductor Corp. 3.88% 01/09/2028	USD	371,000	323,731	0.15
IQVIA, Inc. 2.25% 15/03/2029	EUR	790,000	710,267	0.33	Open Text Holdings, Inc. 4.13%	USD	371,000		
Iron Mountain, Inc. 5.25% 15/03/2028 Iron Mountain, Inc. 4.88% 15/09/2029	USD USD	1,351,000 130,000	1,242,744 113,386	0.57 0.05	15/02/2030	USD	544,000	436,378	0.20
Iron Mountain, Inc. 5.25% 15/07/2030	USD	737,000	640,453	0.30	Organon & Co. / Organon Foreign Debt CoIssuer BV 2.88% 30/04/2028	EUR	423,000	394,437	0.18
Iron Mountain, Inc. 5.63% 15/07/2032	USD	513,000	444,574	0.21	Organon & Co. / Organon Foreign Debt			1 20 4 715	0.50
KBR, Inc. 4.75% 30/09/2028 KFC Holding Co./Pizza Hut Holdings	USD	409,000	361,275	0.17	CoIssuer BV 4.13% 30/04/2028 Organon & Co. / Organon Foreign Debt	USD	1,451,000	1,284,715	0.59
LLC/Taco Bell of America LLC 4.75%	ucn	50.000	40.000	0.03	CoIssuer BV 5.13% 30/04/2031	USD	1,774,000	1,536,072	0.71
01/06/2027 Korn Ferry 4.63% 15/12/2027	USD USD	50,000 540,000	48,000 497,345	0.02 0.23	Patrick Industries, Inc. 7.50% 15/10/2027 Patterson-UTI Energy, Inc. 3.95%	USD	292,000	283,248	0.13
Kronos International, Inc. 3.75%					01/02/2028	USD	175,000	154,215	0.07
15/09/2025 Lamb Weston Holdings, Inc. 4.13%	EUR	103,000	95,624	0.04	Patterson-UTI Energy, Inc. 5.15%	HCD	503.000	449,927	0.21
31/01/2030	USD	279,000	246,413	0.11	15/11/2029 PBF Holding Co. LLC / PBF Finance Corp.	USD	502,000	449,927	0.21
Lamb Weston Holdings, Inc. 4.38% 31/01/2032	HCD	202.000	176,487	0.08	6.00% 15/02/2028	USD	577,000	514,973	0.24
Laredo Petroleum, Inc. 9.50%	USD	202,000	170,407	0.06	PDC Energy, Inc. 5.75% 15/05/2026 Pediatrix Medical Group, Inc. 5.38%	USD	746,000	712,109	0.33
15/01/2025	USD	319,000	314,443	0.15	15/02/2030	USD	218,000	189,435	0.09
Laredo Petroleum, Inc. 10.13% 15/01/2028	USD	50,000	48,758	0.02	Periama Holdings LLC 5.95% 19/04/2026		500,000	465,280	0.21
Laredo Petroleum, Inc. 7.75%					Playtika Holding Corp. 4.25% 15/03/2029 PRA Health Sciences, Inc. 2.88%	USD	659,000	517,282	0.24
31/07/2029 Level 3 Financing, Inc. 4.25% 01/07/2028	USD USD	559,000 792,000	503,147 623,858	0.23 0.29	15/07/2026	USD	436,000	394,603	0.18
Level 3 Financing, Inc. 3.63% 15/01/2029	USD	315,000	230,656	0.11	Prestige Brands, Inc. 5.13% 15/01/2028 Prestige Brands, Inc. 3.75% 01/04/2031	USD USD	51,000 204,000	47,875 168,233	0.02
Levi Strauss & Co. 3.38% 15/03/2027	EUR	400,000	397,983	0.18	Primo Water Holdings, Inc. 4.38%	นวม	204,000	100,233	0.00
LGI Homes, Inc. 4.00% 15/07/2029 Lions Gate Capital Holdings LLC 5.50%	USD	470,000	363,134	0.17	30/04/2029	USD	746,000	644,239 338,770	0.30 0.16
15/04/2029	USD	720,000	417,454	0.19	PROG Holdings, Inc. 6.00% 15/11/2029 PTC, Inc. 4.00% 15/02/2028	USD USD	421,000 66,000	59,402	0.16
LPL Holdings, Inc. 4.63% 15/11/2027 LPL Holdings, Inc. 4.00% 15/03/2029	USD USD	226,000 912,000	211,102 793,531	0.10 0.37	Rain CII Carbon LLC / CII Carbon Corp.				0.00
Lumen Technologies, Inc. 4.00%	usb	912,000	795,551	0.57	7.25% 01/04/2025 Rayonier AM Products, Inc. 5.50%	USD	50,000	46,075	0.02
15/02/2027	USD	407,000	344,913	0.16	01/06/2024	USD	440,000	437,800	0.20
Lumen Technologies, Inc. 6.88% 15/01/2028	USD	146,000	121,235	0.06	Realogy Group LLC / Realogy CoIssuer Corp. 5.75% 15/01/2029	USD	721,000	545,357	0.25
Macy's Retail Holdings LLC 5.88%	ucn		05.004	0.04	Realogy Group LLC / Realogy CoIssuer	U3D	721,000	5 15,557	
01/04/2029 Macy's Retail Holdings LLC 4.50%	USD	97,000	85,884	0.04	Corp. 5.25% 15/04/2030	USD	303,000	221,042	0.10 0.04
15/12/2034	USD	268,000	186,520	0.09	Rent-A-Center, Inc. 6.38% 15/02/2029 Resolute Forest Products, Inc. 4.88%	USD	115,000	93,029	0.04
Macy's Retail Holdings LLC 5.13% 15/01/2042	USD	232,000	151,596	0.07	01/03/2026	USD	405,000	398,821	0.18
Manitowoc Co., Inc. (The) 9.00%	030				ROCC Holdings LLC 9.25% 15/08/2026 SBA Communications Corp. 3.88%	USD	315,000	313,614	0.14
01/04/2026 Matador Resources Co. 5.88%	USD	53,000	49,698	0.02	15/02/2027	USD	280,000	252,984	0.12
15/09/2026	USD	759,000	729,747	0.34	SBA Communications Corp. 3.13% 01/02/2029	USD	889,000	739,195	0.34
MGM Growth Properties Operating					Science Applications International Corp.	USD	009,000	737,173	0.54
Partnership LP / MGP Finance CoIssuer, Inc. 4.50% 01/09/2026	USD	51,000	45,312	0.02	4.88% 01/04/2028	USD	382,000	353,349	0.16
Midwest Gaming Borrower LLC / Midwest				0.20	Scientific Games International, Inc. 7.00% 15/05/2028	USD	560,000	534,190	0.25
Gaming Finance Corp. 4.88% 01/05/2029 Minerals Technologies, Inc. 5.00%	USD	521,000	443,300	0.20	Sealed Air Corp. 5.13% 01/12/2024	USD	245,000	240,713	0.11
01/07/2028	USD	132,000	117,559	0.05	Sealed Air Corp. 5.50% 15/09/2025 Sealed Air Corp. 4.00% 01/12/2027	USD USD	232,000 325,000	228,668 294,820	0.11 0.14
Molina Healthcare, Inc. 4.38% 15/06/2028	USD	471,000	429,830	0.20	Sealed Air Corp. 5.00% 15/04/2029	USD	567,000	532,980	0.25
Molina Healthcare, Inc. 3.88%					Sealed Air Corp. 6.88% 15/07/2033	USD	238,000	235,850	0.11
15/11/2030 Molina Healthcare, Inc. 3.88%	USD	854,000	723,714	0.33	SeaWorld Parks & Entertainment, Inc. 5.25% 15/08/2029	USD	487,000	424,030	0.20
15/05/2032	USD	162,000	134,531	0.06	Service Corp. International 4.63%				
Moog, Inc. 4.25% 15/12/2027	USD	246,000	227,550	0.11	15/12/2027 Service Corp. International 3.38%	USD	301,000	281,149	0.13
Moss Creek Resources Holdings, Inc. 7.50% 15/01/2026	USD	634,000	571,602	0.26	15/08/2030	USD	585,000	475,551	0.22
Moss Creek Resources Holdings, Inc.					Service Corp. International 4.00% 15/05/2031	USD	250,000	210,556	0.10
10.50% 15/05/2027 MSCI, Inc. 4.00% 15/11/2029	USD USD	265,000 530,000	251,750 461,648	0.12 0.21	Silgan Holdings, Inc. 3.25% 15/03/2025	EUR	382,000	394,230	0.18
MSCI, Inc. 3.63% 01/09/2030	USD	614,000	510,388	0.24	Silgan Holdings, Inc. 4.13% 01/02/2028	USD	100,000	92,516	0.04
MSCI, Inc. 3.88% 15/02/2031	USD	1,024,000	851,379	0.39 0.05	Silgan Holdings, Inc. 2.25% 01/06/2028 Sinclair Television Group, Inc. 5.13%	EUR	695,000	628,913	0.29
MSCI, Inc. 3.63% 01/11/2031 MSCI, Inc. 3.25% 15/08/2033	USD USD	120,000 401,000	99,238 309,676	0.05	15/02/2027	USD	404,000	329,507	0.15

Schedule of Investments (continued)

Sinclair Television Group, Inc. 5.50% D1/03/2030 Sinclair Television Group, Inc. 4.13% D1/12/2030 Sirius XM Radio, Inc. 3.13% 01/09/2026 Sirius XM Radio, Inc. 5.00% 01/08/2027 Sirius XM Radio, Inc. 4.13% 01/07/2030 Sirius XM Radio, Inc. 3.88% 01/09/2031 Six Flags Entertainment Corp. 4.88% B1/07/2024 Six Flags Entertainment Corp. 5.50% L5/04/2027	USD USD USD USD USD USD	399,000 546,000 462,000 1,137,000 640,000 406,000	278,993 409,329 410,228 1,050,999	0.13	Xerox Corp. 4.63% 15/03/2023 Xerox Corp. 3.80% 15/05/2024	USD	4,000	3,970	0.00
Sinclair Television Group, Inc. 4.13% 01/12/2030 5irius XM Radio, Inc. 3.13% 01/09/2026 6irius XM Radio, Inc. 5.00% 01/08/2027 6irius XM Radio, Inc. 4.13% 01/07/2030 6irius XM Radio, Inc. 3.88% 01/09/2031 6ix Flags Entertainment Corp. 4.88% 31/07/2024 6ix Flags Entertainment Corp. 5.50%	USD USD USD USD USD	546,000 462,000 1,137,000 640,000	409,329 410,228			HCD			0.00
DI/12/2030 Sirius XM Radio, Inc. 3.13% 01/09/2026 Sirius XM Radio, Inc. 5.00% 01/08/2027 Sirius XM Radio, Inc. 4.13% 01/07/2030 Sirius XM Radio, Inc. 3.88% 01/09/2031 Six Flags Entertainment Corp. 4.88% 31/07/2024 Six Flags Entertainment Corp. 5.50%	USD USD USD USD	462,000 1,137,000 640,000	410,228	0.10		USD	156,000	149,760	0.0
Sirius XM Radio, Inc. 3.13% 01/09/2026 Sirius XM Radio, Inc. 5.00% 01/08/2027 Sirius XM Radio, Inc. 4.13% 01/07/2030 Sirius XM Radio, Inc. 3.88% 01/09/2031 Six Flags Entertainment Corp. 4.88% 31/07/2024 Six Flags Entertainment Corp. 5.50%	USD USD USD USD	462,000 1,137,000 640,000	410,228		Xerox Corp. 4.80% 01/03/2035	USD	126,000	81,973	0.0
Sirius XM Radio, Inc. 4.13% 01/07/2030 Sirius XM Radio, Inc. 3.88% 01/09/2031 Six Flags Entertainment Corp. 4.88% 31/07/2024 Six Flags Entertainment Corp. 5.50%	USD USD	640,000	1.050.999	0.19	Xerox Corp. 6.75% 15/12/2039 Xerox Holdings Corp. 5.00% 15/08/2025	USD USD	329,000 663,000	245,007 610,318	0.1 0.2
Sirius XM Radio, Inc. 3.88% 01/09/2031 Six Flags Entertainment Corp. 4.88% 81/07/2024 Six Flags Entertainment Corp. 5.50%	USD			0.48	Xerox Holdings Corp. 5.50% 15/08/2028	USD	209,000	167,253	0.0
Six Flags Entertainment Corp. 4.88% B1/07/2024 Six Flags Entertainment Corp. 5.50%		406,000	528,134	0.24	XHR LP 6.38% 15/08/2025	USD	299,000	287,477	0.1
31/07/2024 Six Flags Entertainment Corp. 5.50%	USD		316,749	0.15	XPO CNW, Inc. 6.70% 01/05/2034	USD	126,000	111,548	0.0
Six Flags Entertainment Corp. 5.50%		1,106,000	1,064,884	0.49	Yum! Brands, Inc. 3.63% 15/03/2031	USD	367,000	307,730	0.1
5/04/2027		-,,	, ,		Yum! Brands, Inc. 5.38% 01/04/2032 Yum! Brands, Inc. 6.88% 15/11/2037	USD USD	156,000 542,000	144,495 549,669	0.0
	USD	547,000	492,656	0.23	Ziff Davis, Inc. 4.63% 15/10/2030	USD	598.000	506,016	0.2
5M Energy Co. 5.63% 01/06/2025 5M Energy Co. 6.75% 15/09/2026	USD USD	346,000 591,000	332,157 573,772	0.15 0.26	ZipRecruiter, Inc. 5.00% 15/01/2030	USD	353,000	291,020	0.1
SM Energy Co. 6.63% 15/01/2027	USD	328,000	315,936	0.20	United States total		-		
SM Energy Co. 6.50% 15/07/2028	USD	150,000	143,816	0.07	United States total			135,312,501	62.4
Sprint Capital Corp. 8.75% 15/03/2032	USD	105,000	124,961	0.06	Total investments in Corporate Debt Seco	ırities	-	211 572 161	07.5
Sprint LLC 7.63% 15/02/2025	USD	731,000	754,636	0.35	Total investments in corporate best seed		=	211,573,161	97.5
Station Casinos LLC 4.50% 15/02/2028	USD	479,000	416,434	0.19	T / 15 1				
Station Casinos LLC 4.63% 01/12/2031 Stericycle, Inc. 3.88% 15/01/2029	USD	513,000	411,515 488,600	0.19 0.23	Total Bonds		=	211,573,161	97.5
Stillwater Mining Co. 4.50% 16/11/2029	USD USD	560,000 700,000	560,000	0.23					
Summit Midstream Holdings LLC /	uJD	, 50,000	230,000	0.20					
Summit Midstream Finance Corp. 8.50%				_					
15/10/2026	USD	455,000	433,351	0.20					
Sunoco LP / Sunoco Finance Corp. 5.88% I5/03/2028	USD	245,000	232,025	0.11					
Sunoco LP / Sunoco Finance Corp. 4.50%	นวับ	Z43,UUU	232,023	0.11					
15/05/2029	USD	436,000	381,369	0.18					
Sylvamo Corp. 7.00% 01/09/2029	USD	338,000	321,713	0.15					
Talos Production, Inc. 12.00% 15/01/2026	USD	478,000	502,696	0.23					
Feleflex, Inc. 4.63% 15/11/2027 Feleflex, Inc. 4.25% 01/06/2028	USD	95,000	90,544 498,422	0.04 0.23					
Ferex Corp. 5.00% 15/05/2029	USD USD	546,000 611,000	549,136	0.25					
Thor Industries, Inc. 4.00% 15/10/2029	USD	643,000	504,873	0.23					
Fitan International, Inc. 7.00%		- 10,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
80/04/2028	USD	392,000	370,096	0.17					
FransDigm, Inc. 6.25% 15/03/2026	USD	791,000	780,076	0.36					
Fravel + Leisure Co. 5.65% 01/04/2024 Fravel + Leisure Co. 6.60% 01/10/2025	USD USD	91,000 197,000	89,631 193,562	0.04 0.09					
Fravel + Leisure Co. 6.63% 31/07/2026	USD	688,000	673,044	0.31					
Fravel + Leisure Co. 6.00% 01/04/2027	USD	387,000	367,298	0.17					
Fravel + Leisure Co. 4.50% 01/12/2029	USD	199,000	162,151	0.08					
Fravel + Leisure Co. 4.63% 01/03/2030	USD	451,000	374,001	0.17					
FreeHouse Foods, Inc. 4.00%	HCD	210 000	270,300	0.12					
01/09/2028 FriNet Group, Inc. 3.50% 01/03/2029	USD USD	318,000 524,000	430,833	0.12					
FripAdvisor, Inc. 7.00% 15/07/2025	USD	154,000	152,157	0.07					
Friumph Group, Inc. 8.88% 01/06/2024	USD	231,000	235,043	0.11					
Friumph Group, Inc. 6.25% 15/09/2024	USD	50,000	47,398	0.02					
Friumph Group, Inc. 7.75% 15/08/2025	USD	575,000	489,089	0.23					
JGI International LLC 2.50% 01/12/2029 Jnited Rentals North America, Inc.	EUR	148,000	120,490	0.06					
4.88% 15/01/2028	USD	577,000	546,794	0.25					
United Rentals North America, Inc. 5.25%		,,,,,,,							
15/01/2030	USD	542,000	509,252	0.24					
Jnited Rentals North America, Inc. 4.00% 15/07/2030	USD	50,000	42,740	0.02					
Inited Rentals North America, Inc. 3.88%	นวบ	30,000	72,740	0.02					
5/02/2031	USD	604,000	506,327	0.23					
United Rentals North America, Inc. 3.75%	ucn	545.000	420 152	0.10					
15/01/2032 Jnited States Steel Corp. 6.88%	USD	515,000	420,152	0.19					
01/03/2029	USD	178,000	172,775	0.08					
Inited States Steel Corp. 6.65%									
01/06/2037	USD	384,000	351,360	0.16					
Jniti Group LP / Uniti Fiber Holdings, Inc.	HCD	1 779 000	1 720 014	0.70					
CSL Capital LLC 7.88% 15/02/2025  Initi Group LP / Uniti Group Finance, Inc.	USD	1,778,000	1,720,914	0.79					
CSL Capital LLC 6.50% 15/02/2029	USD	130,000	86,125	0.04					
Jrban One, Inc. 7.38% 01/02/2028	USD	347,000	293,323	0.14					
/ail Resorts, Inc. 6.25% 15/05/2025	USD	54,000	54,000	0.03					
/alvoline, Inc. 3.63% 15/06/2031	USD	511,000	419,291	0.19					
Vector Group Ltd. 10.50% 01/11/2026 Vector Group Ltd. 5.75% 01/02/2029	USD	373,000	370,281 520,236	0.17 0.24					
vector Group Eta. 5.75% 01/02/2029 Viasat, Inc. 5.63% 15/09/2025	USD USD	600,000 101,000	93,707	0.24					
/iasat, Inc. 5.63% 15/04/2027	USD	393,000	356,982	0.16					
/iasat, Inc. 6.50% 15/07/2028	USD	394,000	295,588	0.14					
vista Outdoor, Inc. 4.50% 15/03/2029	USD	355,000	260,655	0.12					
Warrior Met Coal, Inc. 7.88% 01/12/2028	USD	328,000	322,584	0.15					
William Carter Co. (The) 5.63% 15/03/2027	HCD	580 000	564 021	0.26					
Ninnebago Industries, Inc. 6.25%	USD	588,000	564,021	0.20					
15/07/2028	USD	222,000	207,059	0.10					
WMG Acquisition Corp. 2.75% 15/07/2028	EUR	200,000	192,045	0.09					
WMG Acquisition Corp. 2.25% 15/08/2031	EUR	142,000	118,381	0.05					
World Acceptance Corp. 7.00%	HCD	357 000	100 020	0.09					
01/11/2026 Nyndham Hotels & Resorts, Inc. 4.38%	USD	357,000	199,920	0.09					
15/08/2028	USD	319,000	286,207	0.13					

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class CHF Hedge	d (acc)*						
CHF	662	USD	709	03/01/2023	HSBC	7	-
CHF	193,251	USD	209,556		Morgan Stanley	31	-
CHF	990	USD	1,069		Standard Chartered		-
CHF	191,572	USD	202,506		State Street	4,554	-
CHF	1,023	USD	1,089		State Street	16	-
EUR	457	CHF	450		Morgan Stanley	2	-
EUR	33,171	USD	35,294	03/01/2023		108	-
USD USD	785 208,904	CHF CHF	726 193,251	03/01/2023	Morgan Stanley	1 29	-
USD	1,088	EUR	1,017		Morgan Stanley	-	-
Class EUR Hedge	d (dist)*						
EUR	3,971	USD	4,105		Bank of America Merrill Lynch	133	-
EUR	827,482	USD	882,301	02/02/2023		2,697	-
EUR	7,249	USD	7,589		BNP Paribas	148	-
EUR	201,921	USD	215,849		Goldman Sachs	107	-
EUR	121,680	USD	129,788	03/01/2023		75	-
EUR	1,751	USD	1,808	03/01/2023		60	-
EUR EUR	2,440	USD	2,547	03/01/2023		57 18	-
EUR	1,755 1,916	USD USD	1,855 2,023	03/01/2023	Morgan Stanley	18 22	-
EUR	4,349	USD	4,635	03/01/2023		7	_
EUR	2,905	USD	3,098	02/02/2023		9	_
EUR	899,567	USD	934,674		Standard Chartered	25,389	0.01
USD	9,037	EUR	8,447		Morgan Stanley	3	-
Class GBP Hedge	d (dist)*						
EUR	222,274	GBP	193,674	03/01/2023		4,252	-
EUR	22,459,285	USD	23,896,679	03/01/2023		72,982	0.04
GBP	893,770	USD	1,063,514	03/01/2023		11,603	0.01
GBP	401,844	USD	479,200		Citibank NA	4,179	-
GBP	178,509	USD	212,414	03/01/2023		2,315	-
USD USD	322,442 317,780	GBP GBP	266,504 263,393		BNP Paribas Goldman Sachs	1,592 676	-
USD	266,913	GBP	219,548	03/01/2023		2,819	_
USD	260,611	GBP	214,545	03/01/2023		2,535	_
USD	436,310	GBP	357,762		Morgan Stanley	5,959	-
USD	396,908	GBP	326,232		Morgan Stanley	4,483	-
USD	138,067,805	GBP	114,634,268		State Street	174,194	0.08
Class MXN Hedge							
EUR	150,860	USD	160,515	03/01/2023		490	-
MXN	27,605	USD	1,403		Bank of America Merrill Lynch	14	-
MXN	42,054	USD	2,109	03/01/2023	•	49	-
MXN	35,515	USD	1,796	03/01/2023		26	-
MXN MXN	64,121 95,185	USD	3,275	03/01/2023	Goldman Sachs	15 27	-
MXN	54,146	USD USD	4,858 2,743		Goldman Sachs	19	-
MXN	85,863	USD	4,378	02/02/2023		2	-
USD	919,352	MXN	17,793,140		Goldman Sachs	6,286	0.01
USD	3,855	MXN	75,139		Morgan Stanley	22	0.01
USD	2,117	MXN	41,387		State Street	6	-
Class USD Hedge	d (acc)*						
EUR	1,999,648	USD	2,127,626	03/01/2023		6,498	0.01
EUR	21,349	USD	22,348		BNP Paribas	437	-
EUR	19,789	USD	21,029	03/01/2023	HSBC	91	
Total unrealised	gain on Forward Currency Contracts (33	December 2021: 1.00%)				335,044	0.16

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts (continued)

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class CHF Hedged	(acc)*						
CHF	1,328	EUR	1,351	03/01/2023	Barclays	(6)	-
CHF	15,426	EUR	15,677		Goldman Sachs	(37)	-
CHF	72,887	USD	79,177	02/02/2023	Goldman Sachs	(129)	-
CHF	559	USD	607	02/02/2023	Morgan Stanley	(2)	-
USD	593	CHF	550		Morgan Stanley	(1)	-
USD	643	CHF	598		Morgan Stanley	(3)	-
USD	1,325	CHF	1,222		Morgan Stanley	(1)	-
USD	35,369	EUR	33,171	02/02/2023		(108)	-
USD	33,537	EUR	32,278		Standard Chartered	(911)	-
Class EUR Hedged	(dist)*						
USD	2,029	EUR	1,906	03/01/2023	Bank of America Merrill Lynch	(5)	-
USD	4,343	EUR	4,074		Bank of America Merrill Lynch	(14)	-
USD	880,441	EUR	827,482	03/01/2023		(2,689)	-
USD	47,545	EUR	45,546		BNP Paribas	(1,064)	-
USD	2,418	EUR	2,265		BNP Paribas	(4)	-
USD	1,955	EUR	1,838	03/01/2023		(7)	
USD	3,273	EUR	3,080	03/01/2023		(14)	-
USD	3,337	EUR	3,211	03/01/2023		(91)	_
USD	47,453	EUR	45,075	03/01/2023		(653)	_
USD	4,014	EUR	3,773		Morgan Stanley	(14)	_
USD	1,673	EUR	1,591		Morgan Stanley	(25)	
USD	114,752	EUR	111,175	03/01/2023		(3,899)	-
Class GBP Hedged	(dict)*						
GBP	233,230	EUR	268,878	03/01/2023	Bank of America Merrill Lynch	(6,408)	_
GBP	232,204	EUR	262,077		Goldman Sachs	(739)	
GBP	175,640	EUR	203,615		Morgan Stanley	(6,030)	-
GBP		EUR	397,153				(0.01)
	341,682				State Street	(12,852)	(0.01)
GBP	342,585	USD	420,141	03/01/2023		(8,045)	(0.01)
GBP	746,222	USD	923,968	03/01/2023		(26,337)	(0.01)
GBP	339,138	USD	411,135		BNP Paribas	(2,840)	-
GBP	328,985	USD	398,562		Goldman Sachs	(2,826)	-
GBP	765,739	USD	923,775		Goldman Sachs	(1,887)	-
GBP	320,583	USD	391,336	03/01/2023		(5,707)	(0.10)
GBP	110,757,009	USD	133,445,483	03/01/2023		(215,828)	(0.10)
GBP	202,389	USD	243,707	02/02/2023		(47)	-
GBP	256,267	USD	310,778		Morgan Stanley	(2,514)	-
GBP	186,114	USD	228,759		Morgan Stanley	(4,883)	- ()
GBP	783,587	USD	954,253		Morgan Stanley	(11,676)	(0.01)
GBP	114,634,268	USD	138,177,601		State Street	(167,118)	(0.08)
USD	23,947,145	EUR	22,459,285	02/02/2023		(73,198)	(0.04)
USD	483,925	EUR	465,734	03/01/2023		(13,129)	(0.01)
USD	22,179,237	EUR	21,346,179		Standard Chartered	(602,462)	(0.28)
USD	575,633	GBP	478,276	02/02/2023	Morgan Stanley	(173)	-
Class MXN Hedged							
EUR	1,294	MXN	27,238		Bank of America Merrill Lynch	(16)	-
MXN	54,395	EUR	2,685	03/01/2023	Goldman Sachs	(74)	-
MXN	40,938	EUR	2,037		Morgan Stanley	(73)	-
MXN	195,521	USD	10,102		Goldman Sachs	(69)	-
MXN	17,793,140	USD	914,482		Goldman Sachs	(6,790)	-
MXN	17,431,088	USD	906,445	03/01/2023	Standard Chartered	(11,958)	(0.01)
MXN	45,894	USD	2,357		State Street	(2)	-
USD	160,854	EUR	150,860	02/02/2023	Barclays	(492)	-
USD	153,186	EUR	147,433	03/01/2023	Standard Chartered	(4,161)	-
USD	2,919	MXN	57,808		Bank of America Merrill Lynch	(47)	-
USD	2,682	MXN	53,296		Bank of America Merrill Lynch	(53)	-
USD	1,757	MXN	34,723		Morgan Stanley	(25)	-
USD	1,791	MXN	35,561		Morgan Stanley	(34)	-
USD	1,538	MXN	30,550		State Street	(30)	=
Class USD Hedged	(acc)*						
USD	2,132,119	EUR	1,999,648	02/02/2023	Barclays	(6,517)	_
USD	98,456	EUR	92,115		Goldman Sachs	(62)	_
USD	70,928	EUR	66,499	03/01/2023		(43)	_
USD	2,051,336	EUR	1,974,287		Standard Chartered	(55,721)	(0.03)
			1,7/4,20/	03/01/2023	Standard Charteled		
rotal unrealised lo	oss on Forward Currency Contracts (31 I	Jecember 2021: (0.41)%)				(1,260,543)	(0.58)

<sup>\*</sup>Contracts entered into for share class currency hedging purpose.

Schedule of Investments (continued)

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash and cash collateral			211,908,205 (1,260,543) 3,550,524	97.73 (0.58) 1.63
Cash equivalents	Currency	Quantity/ Nominal Value		
Undertaking for collective investment schemes (31 December 2021: 0.29%)  JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>1</sup>	USD	1,055,702	1,055,702	0.49
Total Cash equivalents			1,055,702	0.49
Other assets and liabilities			1,582,229	0.73
Net asset value attributable to holders of redeemable participating shares			216,836,117	100.00
Analysis of total assets (Unaudited)				% of Tota Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Transferable securities and money market instruments other than those admitted to an official stock exchange listing Collective investment schemes  OTC financial derivative instruments Other assets  Total Assets	or dealt in on another regulated n	narket		34.73 54.79 0.04 0.45 0.14 9.85

 $<sup>^{1}\!\</sup>mathrm{A}$  related party to the Fund.

Schedule of Investments

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities (31 December 2021: 98.97%)					Metro, Inc.	CAD	6,734	372,595	0.03
Australia (31 December 2021: 1.86%)					National Bank of Canada Nutrien Ltd.	CAD	7,453	501,817	0.05
Ampol Ltd.	AUD	5,908	113,304	0.01	Open Text Corp.	CAD CAD	15,775 7,078	1,150,861 209,579	0.10 0.02
ANZ Group Holdings Ltd. APA Group	AUD AUD	60,471 18,297	970,259 133,511	0.09 0.01	Pembina Pipeline Corp.	CAD	12,057	408,974	0.04
Aristocrat Leisure Ltd.	AUD	11,724	242,653	0.02	Power Corp. of Canada	CAD	8,131	191,131	0.02
Aurizon Holdings Ltd.	AUD	81,728	206,731	0.02	Restaurant Brands International, Inc. Rogers Communications, Inc. 'B'	CAD CAD	6,547 9,390	423,131 439,163	0.04 0.04
BHP Group Ltd.	AUD	105,283	3,257,875 61,097	0.29 0.01	Royal Bank of Canada	CAD	31,902	2,997,251	0.04
BlueScope Steel Ltd. Brambles Ltd.	AUD AUD	5,350 41,803	342,169	0.01	Shaw Communications, Inc. 'B'	CAD	12,231	352,139	0.03
Cochlear Ltd.	AUD	979	135,517	0.01	Shopify, Inc. 'A'	CAD	20,770	720,615	0.06
Coles Group Ltd.	AUD	28,193	319,671	0.03	Sun Life Financial, Inc. Suncor Energy, Inc.	CAD CAD	15,437 41,472	716,053 1,314,604	0.06 0.12
Commonwealth Bank of Australia Computershare Ltd.	AUD AUD	32,702	2,275,346 127,287	0.20 0.01	TC Energy Corp.	CAD	21,971	875,305	0.08
CSL Ltd.	AUD	7,164 11,293	2,203,766	0.20	Teck Resources Ltd. 'B'	CAD	13,628	514,665	0.05
Endeavour Group Ltd.	AUD	72,860	317,212	0.03	Thomson Reuters Corp.	CAD	5,332	607,831	0.05
Fortescue Metals Group Ltd.	AUD	16,623	231,207	0.02	Toronto-Dominion Bank (The) Wheaton Precious Metals Corp.	CAD CAD	40,580 12,226	2,625,668 477,328	0.24 0.04
Goodman Group, REIT GPT Group (The), REIT	AUD AUD	48,001 98,284	565,101 279,935	0.05 0.03		CAD	12,220 -		
Insurance Australia Group Ltd.	AUD	86,424	278,390	0.03	Canada total			36,873,484	3.32
Lendlease Corp. Ltd.	AUD	23,012	122,348	0.01	Denmark (31 December 2021: 0.86%)		-		
Lottery Corp. Ltd. (The)	AUD	37,924	115,217	0.01	AP Moller - Maersk A/S 'B'	DKK	68	152,437	0.01
Macquarie Group Ltd. Medibank Pvt Ltd.	AUD AUD	7,005 172,997	793,134 346,088	0.07 0.03	Carlsberg A/S 'B' DSV A/S	DKK DKK	11,880 3,470	1,574,032 546,059	0.14 0.05
Mirvac Group, REIT	AUD	176,358	254,742	0.02	Genmab A/S	DKK	2,758	1,164,100	0.03
National Australia Bank Ltd.	AUD	51,885	1,057,685	0.10	Novo Nordisk A/S 'B'	DKK	47,684	6,419,138	0.58
Newcrest Mining Ltd.	AUD	15,205	212,825	0.02	Orsted A/S	DKK	13,362	1,210,622	0.11
Origin Energy Ltd. OBE Insurance Group Ltd.	AUD AUD	36,328 68,316	190,189 622,192	0.02 0.06	Vestas Wind Systems A/S	DKK	31,952	926,756	0.08
Ramsay Health Care Ltd.	AUD	3,790	166,291	0.01	Denmark total			11,993,144	1.08
REA Group Ltd.	AUD	1,148	86,260	0.01	Finland (31 December 2021: 0.39%)		-		
Rio Tinto Ltd.	AUD	12,869	1,015,923	0.09 0.05	Elisa OYJ	EUR	7,564	399,275	0.03
Santos Ltd. South32 Ltd.	AUD AUD	116,669 116,699	564,910 316,558	0.03	Kone OYJ 'B'	EUR	21,970	1,132,513	0.10
Stockland, REIT	AUD	55,647	136,985	0.01	Nokia OYJ	EUR	145,676	672,730	0.06
Telstra Group Ltd.	AUD	132,179	357,652	0.03	Nordea Bank Abp	SEK	172,313	1,846,914	0.17
Transurban Group	AUD	48,862	430,102	0.04	Finland total			4,051,432	0.36
Wesfarmers Ltd. Westpac Banking Corp.	AUD AUD	21,369 85,277	665,300 1,350,344	0.06 0.12	France (31 December 2021: 3.34%)		-		
Woodside Energy Group Ltd.	AUD	32,853	789,577	0.07	Air Liquide SA	EUR	21,939	3,100,066	0.28
Woolworths Group Ltd.	AUD	37,604	855,819	0.08	AXA SA	EUR	37,996	1,056,562	0.09
Australia total		_	22 511 172	2.03	BNP Paribas SA	EUR	35,423	2,013,127	0.18
		_	22,511,172	2.03	Capgemini SE Cie de Saint-Gobain	EUR EUR	12,583 6,469	2,094,285 315,169	0.19 0.03
Belgium (31 December 2021: 0.12%) Anheuser-Busch InBev SA	EUR	8,230	494,246	0.04	Cie Generale des Etablissements	Luik	0,407	313,107	0.05
KBC Group NV	EUR	22,465	1,440,464	0.13	Michelin SCA	EUR	30,420	843,622	0.08
•	2011				Dassault Systemes SE Engie SA	EUR EUR	21,410 41,437	765,355 592,066	0.07 0.05
Belgium total			1,934,710	0.17	EssilorLuxottica SA	EUR	3,465	625.705	0.05
Bermuda (31 December 2021: 0.08%)		_			Hermes International	EUR	396	610,702	0.05
Arch Capital Group Ltd.	USD	8,195	514,482	0.05	Kering SA	EUR	2,823	1,432,609	0.13
Bermuda total		_	514,482	0.05	Legrand SA L'Oreal SA	EUR EUR	11,064 9,401	883,479 3,347,081	0.08 0.30
		_			LVMH Moet Hennessy Louis Vuitton SE	EUR	7,439	5,397,912	0.49
Canada (31 December 2021: 2.87%) Agnico Eagle Mines Ltd.	CAD	10,438	542,026	0.05	Pernod Ricard SA	EUR	8,901	1,745,550	0.16
Alimentation Couche-Tard, Inc.	CAD	22,862	1,003,940	0.09	Sanofi	EUR	20,452	1,960,973	0.18
Bank of Montreal	CAD	14,326	1,296,894	0.12	Schneider Electric SE Societe Generale SA	EUR EUR	23,247 36,688	3,243,210 919,366	0.29 0.08
Bank of Nova Scotia (The)	CAD	27,164	1,329,982	0.12	TotalEnergies SE	EUR	64,376	4,029,565	0.36
Barrick Gold Corp. BCE, Inc.	CAD CAD	47,719 4,224	817,416 185,458	0.07 0.02	Veolia Environnement SA	EUR	64,787	1,659,454	0.15
Brookfield Asset Management Ltd. 'A'	CAD	8,734	249,911	0.02	Vinci SA	EUR	27,488	2,736,808	0.25
Brookfield Corp.	CAD	34,948	1,098,259	0.10	France total		_	39,372,666	3.55
Cameco Corp.	CAD	9,385	212,573	0.02			_		
Canadian Imperial Bank of Commerce Canadian National Railway Co.	CAD CAD	19,839 18,031	801,935 2,140,379	0.07 0.19	Germany (31 December 2021: 2.64%) adidas AG	EUR	9,481	1,289,716	0.12
Canadian Natural Resources Ltd.	CAD	31,599	1,753,518	0.16	Allianz SE	EUR	15,283	3,276,836	0.30
Canadian Pacific Railway Ltd.	CAD	17,687	1,317,763	0.12	BASF SE	EUR	12,907	639,022	0.06
Cenovus Energy, Inc.	CAD	27,498	533,136 549,548	0.05	Covestro AG	EUR	23,975	935,217	0.08
CGI, Inc. 'A' Constellation Software, Inc.	CAD CAD	6,380 513	800,370	0.05 0.07	Delivery Hero SE Deutsche Boerse AG	EUR EUR	10,595 2,912	506,351 501,604	0.05 0.05
Dollarama, Inc.	CAD	7,765	453,825	0.04	Deutsche Post AG	EUR	47,998	1,802,126	0.16
Emera, Inc.	CAD	6,371	243,329	0.02	Deutsche Telekom AG	EUR	141,699	2,818,592	0.25
Enbridge, Inc.	CAD	48,234	1,883,865	0.17	Henkel AG & Co. KGaA, Preference	EUR	2,145	148,847	0.01
Fairfax Financial Holdings Ltd. Fortis, Inc.	CAD CAD	689 11,347	407,857 453,729	0.04 0.04	Infineon Technologies AG Mercedes-Benz Group AG	EUR EUR	49,231 8,023	1,493,763 525,740	0.13 0.05
Franco-Nevada Corp.	CAD	4,942	673,195	0.04	Merck KGaA	EUR	6,410	1,237,550	0.03
Great-West Lifeco, Inc.	CAD	7,265	167,825	0.01	MTU Aero Engines AG	EUR	2,126	458,787	0.04
IGM Financial, Inc.	CAD	2,154	60,092	0.01	Muenchener  Pueckyersicherungs-Gesellschaft AG in				
Imperial Oil Ltd. Intact Financial Corp.	CAD CAD	7,225 3,695	351,665 531,527	0.03 0.05	Rueckversicherungs-Gesellschaft AG in Muenchen	EUR	7,892	2,560,512	0.23
Keyera Corp.	CAD	3,093 4,942	107,926	0.03	RWE AG	EUR	49,540	2,198,928	0.20
Loblaw Cos. Ltd.	CAD	4,939	436,398	0.04	0.04 SAP SE		18,443	1,897,273	0.17
Lululemon Athletica, Inc. Magna International, Inc.	USD	648	207,606	0.02 0.04	Siemens AG Symrise AG 'A'	EUR EUR	20,459 6,721	2,830,672 729,134	0.25 0.07
Manulife Financial Corp.	CAD CAD	7,949 51,427	446,216 916,611	0.04	Volkswagen AG, Preference	EUR	10,662	1,324,745	0.12
	CMD	J1,74/	/10,011	0.00	-				

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Vonovia SE Zalando SE	EUR EUR	16,346 14,549	384,145 514,113	0.03 0.05	Japan Post Holdings Co. Ltd. Japan Real Estate Investment Corp.,	JPY	10,900	91,656	0.01
Germany total		_	28,073,673	2.53	REIT Kansai Electric Power Co., Inc. (The)	JPY JPY	71 12,400	310,485 120,199	0.03 0.01
Hong Kong (31 December 2021: 0.77%)		-			KAO Corp. KDDI Corp.	JPY JPY	10,700 39,800	426,151 1,201,134	0.04
AIA Group Ltd. BOC Hong Kong Holdings Ltd.	HKD HKD	272,800 160,000	3,033,849 545,295	0.27 0.05	Keyence Corp.	JPY	4,900	1,909,568	0.17
Budweiser Brewing Co. APAC Ltd.	HKD	107,300	337,506	0.03	Kikkoman Corp. Kirin Holdings Co. Ltd.	JPY JPY	4,100 16,800	215,650 256,052	0.02
CK Asset Holdings Ltd. CK Hutchison Holdings Ltd.	HKD	62,000	381,694 468,203	0.04 0.04	Konami Group Corp.	JPY	3,900	176,460	0.02
CK Infrastructure Holdings Ltd.	HKD HKD	78,000 32,000	167,483	0.04	Kubota Corp. Kyocera Corp.	JPY JPY	35,700 10,200	491,621 506,502	0.04
CLP Holdings Ltd.	HKD	20,000	145,933	0.01	Kyowa Kirin Co. Ltd.	JPY	17,600	402,835	0.03
Hang Lung Properties Ltd. Hang Seng Bank Ltd.	HKD HKD	94,000 15,600	183,786 259,435	0.02 0.02	M3, Inc.	JPY	4,800	130,163	0.01
HKT Trust & HKT Ltd.	HKD	112,000	137,328	0.01	Makita Corp. Marubeni Corp.	JPY JPY	6,100 47,900	142,393 549,991	0.01 0.05
Hong Kong & China Gas Co. Ltd. Hong Kong Exchanges & Clearing Ltd.	HKD HKD	149,829 34,500	142,439 1,490,516	0.01 0.13	MINEBEA MITSUMI, Inc.	JPY	7,800	116,517	0.01
Jardine Matheson Holdings Ltd.	USD	5,000	254,500	0.02	MISUMI Group, Inc. Mitsubishi Chemical Group Corp.	JPY JPY	17,700 31,700	386,209 164,500	0.03
Link REIT MTR Corp. Ltd.	HKD HKD	50,000 38,000	367,075 201,321	0.03 0.02	Mitsubishi Corp.	JPY	30,300	983,553	0.09
Power Assets Holdings Ltd.	HKD	24,500	134,194	0.02	Mitsubishi Estate Co. Ltd. Mitsubishi UFJ Financial Group, Inc.	JPY JPY	12,500 334,700	162,094 2,255,093	0.01
Sun Hung Kai Properties Ltd.	HKD	48,000	656,814	0.06	Mitsui & Co. Ltd.	JPY	17,900	522,708	0.25
Techtronic Industries Co. Ltd. WH Group Ltd.	HKD HKD	55,500 181,000	619,357 105,284	0.06 0.01	Mitsui Chemicals, Inc.	JPY	11,400	257,039	0.02
Wharf Real Estate Investment Co. Ltd.	HKD	28,000	163,230	0.02	Mitsui Fudosan Co. Ltd. Mitsui OSK Lines Ltd.	JPY JPY	33,600 16,300	615,493 406,434	0.06 0.04
Xinyi Glass Holdings Ltd.	HKD	51,000	95,009	0.01	Mizuho Financial Group, Inc.	JPY	37,200	523,273	0.05
Hong Kong total			9,890,251	0.89	MonotaRO Co. Ltd. Murata Manufacturing Co. Ltd.	JPY JPY	14,800 15,400	208,296 768,920	0.02 0.07
Ireland (31 December 2021: 1.97%)		=			NEC Corp.	JPY	1,000	35,128	0.00
Accenture plc 'A'	USD	27,588	7,361,582	0.66	Nexon Co. Ltd. Nidec Corp.	JPY JPY	2,800 11,005	62,856 570,413	0.01 0.05
CRH plc DCC plc	EUR GBP	6,268 13,807	247,579 677,625	0.02 0.06	Nihon M&A Center Holdings, Inc.	JPY	3,900	48,150	0.00
Experian plc	GBP	7,232	244,713	0.02	Nintendo Co. Ltd.	JPY	31,300	1,312,301	0.12
James Hardie Industries plc CDI Kingspan Group plc	AUD EUR	7,443 15,447	133,253 833,852	0.01 0.08	Nippon Building Fund, Inc., REIT Nippon Express Holdings, Inc.	JPY JPY	58 5,600	258,471 320,012	0.02
Medtronic plc	USD	30,739	2,389,035	0.22	Nippon Paint Holdings Co. Ltd.	JPY	13,000	102,368	0.01
Trane Technologies plc	USD	27,516	4,625,165	0.42	Nippon Prologis REIT, Inc. Nippon Steel Corp.	JPY JPY	132 12,200	308,629 211,925	0.03
Ireland total			16,512,804	1.49	Nippon Telegraph & Telephone Corp.	JPY	37,600	1,072,047	0.10
Italy (31 December 2021: 0.27%)		_			Nissan Motor Co. Ltd. Nissin Foods Holdings Co. Ltd.	JPY JPY	17,200 1,100	54,502 86,870	0.00
Enel SpA Ferrari NV	EUR EUR	169,858 1,995	911,843 426,258	0.08 0.04	Nitori Holdings Co. Ltd.	JPY	4,000	516,882	0.05
FinecoBank Banca Fineco SpA	EUR	73,103	1,210,858	0.04	Nitto Denko Corp. Nomura Holdings, Inc.	JPY JPY	7,700	446,436 67,025	0.04
Intesa Sanpaolo SpA	EUR	136,019	301,655	0.03	Nomura Research Institute Ltd.	JPY	18,100 14,800	349,403	0.01
UniCredit SpA	EUR	87,678 -	1,241,919	0.11	NTT Data Corp. Obayashi Corp.	JPY	4,200	61,498 244,309	0.01
Italy total			4,092,533	0.37	Obic Co. Ltd.	JPY JPY	32,300 500	73,553	0.02
Japan (31 December 2021: 6.53%)	IDV	2,000	83.350	0.01	Odakyu Electric Railway Co. Ltd.	JPY	10,300	133,565 292,340	0.01 0.03
Aeon Co. Ltd. AGC, Inc.	JPY JPY	3,900 11,000	82,259 366,403	0.01 0.03	Olympus Corp. Omron Corp.	JPY JPY	16,400 7,200	349,509	0.03
Ajinomoto Co., Inc.	JPY	18,700	571,296	0.05	Ono Pharmaceutical Co. Ltd.	JPY	13,200	308,429	0.03
Asahi Group Holdings Ltd. Asahi Kasei Corp.	JPY JPY	19,400 44,600	605,621 318,212	0.05 0.03	Oriental Land Co. Ltd. ORIX Corp.	JPY JPY	2,600 47,000	377,551 754,629	0.03 0.07
Astellas Pharma, Inc.	JPY	27,100	412,112	0.04	Otsuka Corp.	JPY	12,100	381,034	0.03
Bandai Namco Holdings, Inc. Bridgestone Corp.	JPY JPY	400 20,400	25,204 725,275	0.00 0.07	Otsuka Holdings Co. Ltd. Panasonic Holdings Corp.	JPY JPY	1,800 20,900	58,729 175,902	0.01
Canon, Inc.	JPY	14,400	311,639	0.03	Rakuten Group, Inc.	JPY	13,100	59,173	0.01
Central Japan Railway Co. Chubu Electric Power Co., Inc.	JPY JPY	5,300 20,500	650,927 211,611	0.06 0.02	Recruit Holdings Co. Ltd. Renesas Electronics Corp.	JPY JPY	35,000 20,300	1,108,000 182,084	0.10 0.02
Chugai Pharmaceutical Co. Ltd.	JPY	6,700	171,023	0.02	Rohm Co. Ltd.	JPY	4,300	310,576	0.03
CyberAgent, Inc. Dai Nippon Printing Co. Ltd.	JPY JPY	16,000 3,300	141,635 66,278	0.01 0.01	SBI Holdings, Inc. Secom Co. Ltd.	JPY JPY	12,300 2,300	234,636 131,486	0.02
Dai-ichi Life Holdings, Inc.	JPY	1,600	36,306	0.00	Sekisui House Ltd.	JPY	13,700	242,290	0.02
Daiichi Sankyo Co. Ltd.	JPY	45,500	1,465,573	0.13	Seven & i Holdings Co. Ltd.	JPY	18,800	806,457	0.07
Daiwa House Industry Co. Ltd. Denso Corp.	JPY JPY	29,400 16,600	677,150 822,294	0.06 0.07	Shimadzu Corp. Shimano, Inc.	JPY JPY	13,900 1,700	394,524 269,537	0.04
Dentsu Group, Inc.	JPY	13,800	433,522	0.04	Shin-Etsu Chemical Co. Ltd.	JPY	11,700	1,438,724	0.13
Disco Corp. East Japan Railway Co.	JPY JPY	900 12,900	257,494 735,215	0.02 0.07	Shionogi & Co. Ltd. Shiseido Co. Ltd.	JPY JPY	8,700 9,000	434,258 441,388	0.04
Eisai Co. Ltd.	JPY	4,900	323,238	0.03	SMC Corp.	JPY	1,200	505,483	0.05
ENEOS Holdings, Inc. FANUC Corp.	JPY	85,200	289,284 826,803	0.03 0.07	SoftBank Corp. SoftBank Group Corp.	JPY JPY	33,600	378,922 829,843	0.03 0.07
Fast Retailing Co. Ltd.	JPY JPY	5,500 1,200	732,396	0.07	Sompo Holdings, Inc.	JPY	19,400 3,200	142,120	0.01
Fuji Electric Co. Ltd.	JPY	12,600	480,336	0.04	Sony Group Corp. Square Enix Holdings Co. Ltd.	JPY	31,400	2,388,109	0.21
FUJIFILM Holdings Corp. Fujitsu Ltd.	JPY JPY	7,200 6,100	361,514 814,366	0.03 0.07	Sumco Corp.	JPY JPY	5,500 7,300	255,523 97,208	0.02
GMO Payment Gateway, Inc.	JPY	2,000	165,524	0.01	Sumitomo Corp.	JPY	5,200	86,545	0.01
Hikari Tsushin, Inc. Hitachi Ltd.	JPY JPY	1,300 28,400	183,455 1,440,179	0.02 0.13	Sumitomo Electric Industries Ltd. Sumitomo Metal Mining Co. Ltd.	JPY JPY	30,000 12,300	342,074 435,434	0.03 0.04
Honda Motor Co. Ltd.	JPY	48,200	1,107,601	0.10	Sumitomo Mitsui Financial Group, Inc.	JPY	38,600	1,549,324	0.14
Hoya Corp. Ibiden Co. Ltd.	JPY JPY	12,000 3,900	1,155,481 141,434	0.10 0.01	Sumitomo Mitsui Trust Holdings, Inc. Sumitomo Realty & Development Co.	JPY	12,900	448,560	0.04
Inpex Corp.	JPY	11,000	116,382	0.01	Ltd.	JPY	5,600	132,461	0.01
ITOCHU Corp. Japan Exchange Group, Inc.	JPY	37,400	1,175,190	0.11 0.02	Suntory Beverage & Food Ltd. Suzuki Motor Corp.	JPY JPY	3,300 10,547	112,547 341,402	0.01 0.03
Japan Exchange Group, IIIC.	JPY	16,500	237,286	0.02		11.1	10,547	3 .1, 102	5.05

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Sysmex Corp.	JPY	2,600	157,602	0.01	Cie Financiere Richemont SA	CHF	6,901	894,325	0.08
T&D Holdings, Inc.	JPY	38,400	553,540	0.05	Givaudan SA	CHF	160	489,927	0.04
Taisei Corp. Takeda Pharmaceutical Co. Ltd.	JPY	10,700	344,651 984,559	0.03 0.09	Glencore plc Julius Baer Group Ltd.	GBP	171,610	1,140,317 605,314	0.10 0.06
TDK Corp.	JPY JPY	31,600 2,500	82,136	0.09	Lonza Group AG	CHF CHF	10,398 4,897	2,398,217	0.06
Terumo Corp.	JPY	26,500	752,351	0.01	Nestle SA	CHF	70,175	8,126,405	0.22
Tokio Marine Holdings, Inc.	JPY	54,300	1,163,616	0.10	Novartis AG	CHF	55,693	5,031,753	0.45
Tokyo Electric Power Co. Holdings, Inc.	JPY	12,400	44,734	0.00	Partners Group Holding AG	CHF	324	286,039	0.03
Tokyo Electron Ltd.	JPY	3,800	1,119,739	0.10	Roche Holding AG	CHF	19,607	6,156,327	0.56
Tokyo Gas Co. Ltd.	JPY	20,700	405,544	0.04	Schindler Holding AG	CHF	2,307	433,622	0.04
Toppan, Inc.	JPY	1,600	23,695	0.00	SGS SA	CHF	554	1,287,397	0.12
Toshiba Corp.	JPY	7,300	254,666	0.02	Sika AG	CHF	9,228	2,211,249	0.20
TOTO Ltd.	JPY	3,300	112,547	0.01	Straumann Holding AG	CHF	2,193	250,304	0.02
Toyota Industries Corp.	JPY	9,900	543,226	0.05	UBS Group AG	CHF	52,028	967,512	0.09
Toyota Motor Corp. Toyota Tsusho Corp.	JPY JPY	211,200 3,500	2,901,209 129,581	0.26 0.01	Zurich Insurance Group AG	CHF	4,493	2,147,918	0.19
Unicharm Corp.	JPY	16,700	641,446	0.01	Switzerland total			34,265,315	3.09
Yamaha Motor Co. Ltd.	JPY	3,400	77,563	0.01			_		3.07
Yamato Holdings Co. Ltd.	JPY	27,700	438,136	0.04	United Kingdom (31 December 2021: 3.87%				
Z Holdings Corp.	JPY	71,700	180,412	0.02	3i Group plc	GBP	111,675	1,802,089	0.16
Z0Z0, Inc.	JPY	5,600	138,361	0.01	Anglo American plc	GBP	15,700	611,230	0.06
		_			Ashtead Group plc	GBP	3,796	215,525	0.02 0.50
Japan total			67,120,975	6.04	AstraZeneca plc Barclays plc	GBP GBP	40,693 1,044,209	5,491,167 1,991,136	0.50
Macau (31 December 2021: 0.03%)		_			Berkeley Group Holdings plc	GBP	21,858	992,034	0.18
Sands China Ltd.	HKD	160,000	530,945	0.05	BP plc	GBP	705,056	4,027,683	0.09
Salids Clinia Eta.	IIICD	100,000			Compass Group plc	GBP	24,500	565,107	0.05
Macau total			530,945	0.05	Diageo plc	GBP	81,951	3,598,128	0.32
Noth ordered (21 December 2021, 2 2001)		_			Direct Line Insurance Group plc	GBP	170,848	454,800	0.04
Netherlands (31 December 2021: 2.26%) Adyen NV	EUR	623	856,653	0.08	GSK plc	GBP	63,121	1,091,545	0.10
Akzo Nobel NV	EUR	5,481	365,951	0.08	Haleon plc	GBP	75,487	297,245	0.03
Argenx SE	EUR	524	194,783	0.03	HSBC Holdings plc	GBP	288,661	1,790,667	0.16
ASML Holding NV	EUR	11,772	6,329,575	0.57	InterContinental Hotels Group plc	GBP	27,568	1,573,184	0.14
Heineken NV	EUR	3,331	312,414	0.03	Intertek Group plc	GBP	17,036	826,672	0.07
ING Groep NV	EUR	43,554	529,348	0.05	Liberty Global plc 'C'	USD	11,543	224,280	0.02
Koninklijke Ahold Delhaize NV	EUR	43,644	1,250,182	0.11	Linde plc Lloyds Banking Group plc	USD GBP	13,566 3,290,373	4,424,958 1,797,323	0.40 0.16
Koninklijke DSM NV	EUR	14,943	1,822,847	0.16	London Stock Exchange Group plc	GBP	3,570	306,445	0.10
Koninklijke KPN NV	EUR	432,407	1,333,696	0.12	Next plc	GBP	11,000	768,244	0.03
NN Group NV	EUR	31,122	1,267,483	0.11	Prudential plc	GBP	58,797	797,446	0.07
NXP Semiconductors NV	USD	25,932	4,098,034	0.37	Reckitt Benckiser Group plc	GBP	31,339	2,169,125	0.20
Prosus NV	EUR	17,474	1,201,936	0.11	RELX plc	GBP	86,972	2,393,674	0.22
Stellantis NV Universal Music Group NV	EUR EUR	134,988 17,216	1,911,755 413,594	0.17 0.04	Rio Tinto plc	GBP	43,444	3,029,964	0.27
Wolters Kluwer NV	EUR	17,216	1,310,126	0.04	Shell plc	GBP	202,369	5,662,174	0.51
Wollers Ridwer IVV	Luit	12,557		0.12	SSE plc	GBP	54,669	1,125,834	0.10
Netherlands total			23,198,377	2.09	Standard Chartered plc	GBP	244,604	1,831,313	0.17
N 7		_			Taylor Wimpey plc Tesco plc	GBP	361,223	441,685	0.04
New Zealand (31 December 2021: 0.05%) Xero Ltd.	AUD	2,843	135,479	0.01	Unilever plc	GBP GBP	253,609 47,094	683,959 2,369,077	0.06 0.21
New Zealand total			135,479	0.01	United Kingdom total			53,353,713	4.81
Singapore (31 December 2021: 0.27%)		_			United States (31 December 2021: 65.76%)	)	_		
CapitaLand Integrated Commercial					3M Co.	USD	11,065	1,326,915	0.12
Trust, REIT	SGD	82,908	126,105	0.01	Abbott Laboratories	USD	38,877	4,268,306	0.38
Capitaland Investment Ltd.	SGD	138,000	380,704	0.03	AbbVie, Inc.	USD	61,660	9,964,873	0.90
DBS Group Holdings Ltd. Oversea-Chinese Banking Corp. Ltd.	SGD	50,700	1,282,243 597,557	0.12 0.05	Activision Blizzard, Inc.	USD	7,641	584,919	0.05
Sea Ltd. ADR	SGD USD	65,800 6,802	353,908	0.03	Adobe, Inc.	USD	11,410	3,839,807	0.35
Singapore Exchange Ltd.	SGD	33,300	222,215	0.03	Advanced Micro Devices, Inc. Affirm Holdings, Inc. 'A'	USD USD	53,650 12,240	3,474,910 118,361	0.31
Singapore Telecommunications Ltd.	SGD	53,700	102,900	0.01	Afflac, Inc.	USD	12,240	74,602	0.01
United Overseas Bank Ltd.	SGD	28,100	643,207	0.06	Air Products & Chemicals, Inc.	USD	5,367	1,654,431	0.01
Wilmar International Ltd.	SGD	66,700	207,381	0.02	Airbnb, Inc. 'A'	USD	2,286	195,453	0.02
Ciarana tatal		_			Akamai Technologies, Inc.	USD	3,574	301,288	0.03
Singapore total			3,916,220	0.35	Alcoa Corp.	USD	2,670	121,405	0.01
Spain (31 December 2021: 0.73%)		_			Ally Financial, Inc.	USD	6,922	169,243	0.02
Banco Bilbao Vizcaya Argentaria SA	EUR	339,455	2,041,104	0.18	Alphabet, Inc. 'A'	USD	150,251	13,256,646	1.19
Banco Santander SA	EUR	171,441	512,775	0.05	Alphabet, Inc. 'C'	USD	125,083	11,098,615	1.00
Cellnex Telecom SA	EUR	23,688	781,689	0.07	Amazon.com, Inc.	USD	214,353	18,005,652	1.62
Iberdrola SA	EUR	243,083	2,835,574	0.26	American Express Co	USD	27,365	2,433,296	0.22
Industria de Diseno Textil SA	EUR	47,930	1,271,159	0.11	American Express Co. American Tower Corp., REIT	USD USD	35,347 4,724	5,222,519 1,000,827	0.47 0.09
Spain total		_	7,442,301	0.67	Ameriprise Financial, Inc.	USD	5,536	1,723,744	0.16
Sweden (31 December 2021: 0.67%)		_			AMETEK, Inc.	USD	5,130	716,764	0.06
Assa Abloy AB 'B'	SEK	28,087	603,010	0.05	Amgen, Inc. Analog Devices, Inc.	USD	696	182,797	0.02 0.44
Atlas Copco AB 'A'	SEK	209,421	2,474,181	0.22	Elevance Health, Inc.	USD USD	29,631 12,695	4,860,373 6,512,154	0.44
Boliden AB	SEK	25,741	966,569	0.09	Aon plc 'A'	USD	5,114	1,534,916	0.14
Investor AB 'B'	SEK	35,930	650,219	0.06	Apple, Inc.	USD	352,300	45,774,339	4.12
Nibe Industrier AB 'B'	SEK	17,437	162,497	0.01	Applied Materials, Inc.	USD	26,191	2,550,480	0.23
Sandvik AB	SEK	35,450	640,988	0.06	Aramark	USD	5,238	216,539	0.02
SKF AB 'B'	SEK	57,932	884,868	0.08	Archer-Daniels-Midland Co.	USD	17,523	1,627,011	0.15
Sweden total		_	6 202 222	0.57	Autodesk, Inc.	USD	7,043	1,316,125	0.12
Sweden total			6,382,332	0.57	Automatic Data Processing, Inc.	USD	6,038	1,442,237	0.13
Switzerland (31 December 2021: 3.46%)		_			AutoZone, Inc.	USD	1,267	3,124,650	0.28
ABB Ltd.	CHF	37,185	1,127,768	0.10	Avary Dennison Corp.	USD	3,097	500,227	0.05
Adecco Group AG	CHF	7,792	256,533	0.02	Avery Dennison Corp. Baker Hughes Co. 'A'	USD USD	7,141 8,849	1,292,521 261,311	0.12
Alcon, Inc.	CHF	6,654	454,388	0.04	banci flugites CU. A	นวบ	0,047	۲۰۱٬۵۱۱	0.02

Schedule of Investments (continued)

Bankel frew work beliefest Corp. (19) 55 1779 777-56 Co. 20 100 100 100 100 100 100 100 100 100	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Earner   New York Yellon Crop, Triffy   1963   12,079   777-756   0.077   200   200   200   200   24,075   14,101   14	•									0.11
Superin constrained, bit   150   3,200   1746-674   104										0.06 0.45
Section Patricines   1.00   3,075   9910,985   0.00   5   1611, 171, 181   1.00   1.257   1.704,161   1.002,172										0.43
Bert Duck C. n.c.   190   26,054   2296.73   0.21   Erise Laurer (E.c., Inc., The IV)   1,157   787.750   1,157   1,057   1,		USD	3,578	909,885	0.08	Equinix, Inc., REIT	USD	2,587	1,694,563	0.15
Segur, Nr.   Seg										0.11
Selection from controlled in C.   Sept.   Se										0.07 0.03
Slock in: "A"   1950   1950   265.00   205   255.03   255.03   255.00   2	BioMarin Pharmaceutical, Inc.			427,000	0.04	Eversource Energy			767,974	0.07
Beautier loidings, Inc.							USD	10,921	956,680	0.09
Rozz Jahr Isteffinen isolating rosp. 4. (95) 1,410 (173,613) 0.14 (20 m) deal (Crz). (95) 124,469 (173,613) 0.14 (20 m) deal (Crz). (95) 124,469 (173,613) 0.15 (20 m) deal (Crz). (95) 1,410 (173,613) 0							USD	1,385	143,929	0.01
Package Properties, Inc., Field   1051   1.798   22,798   2002   Felix forms   1050   3.405   602,334				1,506,133	0.14		USD			1.24
Seabon Selembric Comp.	-									0.02 0.01
Bross-New Symbol Co.										0.01
Browner Comp. #   USD   14,026   931,258   D.O.S.   PROF.   D.O.S.   PROF.   D.O.S.   D.O.S					0.63		USD	5,914	222,485	0.02
Burge Lift							IISD	3 257	220 987	0.02
Brillingtes Stores, Inc.										0.19
Cardie Depart Prints, RETT   1839   15.411   17.44.559   0.14   Fertines, Inc.   1550   14.9553   73.1052	Burlington Stores, Inc.		6,760	1,370,658	0.12					0.12
Capital Corp.   USD   16,773   1577,810   OLZ   Carriard Grop.   USD   10,466   St.356   OLZ   Carriard Grop.   USD   12,567   OLZ   Carriard Grop.   USD   12,567   OLZ   Carriard Grop.   USD   2,524   OLZ   Carriard Grop.   USD   0,677   OLZ   Carriard Grop.   USD   0,678   OLZ   Carriard Grop.   USD   0,787   OLZ   Carriard G	0 .									0.05 0.07
Cartine Corp.   USD   1.152   271.469   DOLD   For Corp. N   USD   7.111   215.961   Cartine Chain Corp.   USD   19.218   7.97.727   DOLD   For Corp. N   USD   3.180   95.77   Cartine Chain Corp.   USD   19.218   7.97.727   DOLD   For Corp. N   USD   1.818   95.57   DOLD   Cartine Chain Corp.   USD   1.818   0.95   7.97.727   DOLD   Cartine Chain Corp.   USD   1.818   0.95   7.97.72   DOLD   Cartine Chain Corp.   USD   1.818   0.95   7.97.72   DOLD   Cartine Chain Corp.   USD   1.818   0.95   7.97.72   DOLD   Cartine Chain Corp.   USD   1.818   0.95   7.97.41   DOLD   Cartine Chain Corp.   USD   4.621   393,709   DOLD   Cartine Chain Corp.   USD   4.621   393,709   DOLD   Chain Schwale Chain Corp.   USD   4.95   2.938   2.488.288   DOLD   Chaines Shared, Fig. Her.   USD   2.528   2.488.288   DOLD   Chain Schwale Chain Corp.   USD   4.145   7.448.288   DOLD										0.04
Carle Freight Annual Comp.  (185) 19-218 79-278 79-2782 0.00  Carle Group, Inc. 1050 18-30 3.00  Carle Group, Inc. 1050 1					0.02	The state of the s				0.02
Caterolinal, Inc.										0.01 0.05
Center Corpu, Inc.   USD   2,503   604,391   0,06   Gen fügital, Inc.   USD   7,541   161,604   166,436										0.06
Centreprint Finergy, Inc.  USD 16,501 494,865 0.04 General Bletchic Co.  USD 4,621 933,979 0.04 General Mills, Inc.  USD 1,013 92,750 0.01 General Mills, Inc.  USD 1,013 92,750 0.01 General Mills, Inc.  USD 1,026 7,928 2.28 2.2014,14 0.17 General Mills, Inc.  USD 1,027 0.00 1.00 General Mills, Inc.  USD 1,027 0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0										0.01
CF miderise violings, Inc.										0.01 0.03
Common										0.03
Charter Communications, Inc., "A" USD 7,928 2,883,385 0,24 Globbe URE, Inc. C USD 4,638 1,592,596 Chevron Corp. Chevron Corp. USD 4,454 7,440,578 0,677 Chevron Corp. USD 4,454 7,440,578 0,677 Chevron Corp. USD 4,454 7,440,578 0,677 Chevron Corp. USD 4,910 1,626,879 0,157 Chevron Corp. USD 4,910 1,626,879 0,157 Chevron Corp. USD 222 145,422 0,157 Chevron Corp. USD 222 145,422 0,107 Chevron Chevro							USD	1,446		0.02
Chemiste Energy, Inc.   USD   9,007   1,350,687   0,12   Coldman Sachs Group, Inc. (The)   USD   4,638   1,592,596   Chervon Curp.   USD   1,454   7,440,578   0,17   Chemister Energy, Inc.   USD   1,454   1,440,578   0,17   Chemister Energy, Inc.   USD   1,540   1,446,578   0,17   Chemister Energy, Inc.   USD   327   145,422   0,01   Chemister Energy, Inc.   USD   1,540   2,448,934   0,22   Chiras Corp.   USD   64,262   2,911,093   0,22   Chiras Corp.   USD   1,540   2,448,934   0,22   Chiras Corp.   USD   1,645   2,911,093   0,22   Chiras Corp.   USD   1,651   1,253   1,224,499   0,24   Chemister Energy, Inc.   USD   1,708   2,229,173   0,229,173   Chiras Corp.   USD   1,708   2,229,173   0,239   Chiras Corp.   USD   1,351   1,224,499   0,17   Chiras Corp.   USD   1,351   1,224,499   0,17   Chiras Corp.   USD   1,351   1,224,499   0,17   Chiras Corp.   USD   1,307   Chiras Corp.   USD   1,308   Chiras Corp.   USD   1,409   Fig. 1,409	The state of the s									0.14 0.06
Cherom Corp.										0.00
Cargan Corp.   USD   1,561   1,666   1,667   1,668						Hartford Financial Services Group, Inc.				0.05
Healthpeak Properties, Inc., RET   USD   10,326   258,873			1,361							0.05 0.05
Gisco Systems, Inc.  USD 51,465 2,2448,934 0,22 Hersney Co. (Ine) USD 3,891 901.099 (Highpup, Inc.  USD 64,362 2,2911.093 0,41 Home Depth, Inc. The USD 7,928 593.094 Home Depth, Inc. The USD 1,935 1,254,99 0,10 Home Depth, Inc. The USD 1,937 4,402.141 Home Depth, Inc. The USD 1,937 4,402.141 Home Depth, Inc. The USD 2,900 500.022 Geglizant Technology Solutions Corp.  A Solution of Control of										0.03
CMB Group, Int. C. Y.  USD 14,835										0.08
Care Cola Co. (The)  (US)  (US		USD	64,362							0.20 0.05
Cora-Colé Co. (The)										0.40
Cagnizant Technology Solutions Corp.  "A" USD 11,560 661,116 0.06 Coinbase Global, Inc. "A" USD 11,560 661,116 0.06 Coinbase Global, Inc. "A" USD 15,551 4,061,703 0.37 Horbitopidise Co. USD 51,551 4,061,703 0.37 Horbitopidise Co. Comacst Corp. "A" USD 15,0450 5,261,236 0.47 Humana, Inc. USD 8,977 2,085,055 0.49 Consolidated Edison, Inc. USD 8,977 2,085,055 0.49 Consellation Brands, Inc. "USD 8,897 2,085,055 0.49 Illimins Tool Works, Inc. USD 19,499 795,114 Constellation Brergy Corp. USD 2,553 220,094 0.02 USD 15,071 885,873 0.08 Incorreva, Inc. USD 15,071 885,873 0.08 Costs Wholesale Corp. USD 15,071 4,551,761 0.41 Insuled Corp. USD 49,024 1,518,763 Corw Castle, Inc., REIT USD 2,837 Library 1,898 1,998 1,						· · · · · · · · · · · · · · · · · · ·				0.03
Coipate-Palmolive Co. USD 1,792 63,419 0.01 HP, Inc. USD 42,080 1,130,699 (Coigate-Palmolive Co. USD 15,551 4,061,703 0.37 HubSpot, Inc. USD 2,837 1,433,083 (ConcoPhillips Company) (Considerate Gison, Inc. USD 8,125 774,394 0.07 USD 1,515 1,515 1,515 4,061,704 0.07 USD 1,515				//1 11/	0.07					0.03 0.09
Colgate-Palmolive Co.   USD   51,551   4,061,703   0.37   https://doi.org.org.org/10.1076   USD   50,540   5,261,236   0.47   https://doi.org.org/10.1076   USD   50,540   5,261,236   0.47   https://doi.org.org/10.1076   USD   2,837   4,830,83   0.50										0.10
Concophillips					0.37					0.02
Consolidated Edison, Inc.  USD 8,125 774,394 0.07 Constellation Brands, Inc. 'A' USD 8,997 2,085,055 0.19 Contrelation Brands, Inc. 'A' USD 8,997 4,551,716 0.41 Illiumina, Inc. USD 1,455 294,201 Corteva, Inc. Costo Wholesale Corp. USD 15,071 4,551,716 0.41 Illiumina, Inc. USD 1,455 294,201 Corteva, Inc. Costo Wholesale Corp. USD 2,266 272,280 0.002 Corteva, Inc. Costo Wholesale Corp. USD 2,266 272,280 0.002 Corteva, Inc. USD 44,234 1,086,829 0.10 Cortera Energy, Inc. Costo Wholesale Corp. USD 44,234 1,086,829 0.10 Cortera Energy, Inc. Costo Wholesale Corp. USD 44,234 1,086,829 0.10 Cortera Energy, Inc. Costo Wholesale Corp. USD 4,584 621,774 0.06 Cortera Energy, Inc. USD 4,584 621,774 0.06 Cortera Energy, Inc. USD 4,722 1,144,093 0.10 Cortera Energy, Inc. USD 4,722 1,144,093 0.10 Cortera Energy, Inc. USD 5,182 482,911 0.04 Danaher Corp. USD 5,182 482,911 0.04 Danaher Corp. USD 15,283 4,056,414 0.37 Darifing Ingredients, Inc. USD 15,283 4,056,414 0.37 Darifing Ingredients, Inc. USD 15,133 112,976 0.01 Darifing Ingredients, Inc. USD 15,133 112,976 0.01 Deere & Co. USD 15,472 6,633,775 0.60 Delta Air Lines, Inc. USD 7,031 82,787 0.03 Delta Air Lines, Inc. USD 2,2681 745,298 0.07 Delta Forthologies, Inc. 'C' USD 8,510 96,379 1,215,91 0.09 Delta Forthologies, Inc. 'USD 1,142 1,99,119 Dexom. Inc. USD 1,193 1,193 1,294 1,29										0.13 0.03
Constellation Brands, Inc. 'A' Constellation Brands, Inc. 'A' Constellation Energy Corp. USD 1,553 2,2004 0,02 Corteva, Inc. Constellation Energy Corp. USD 1,5071 88,8,873 0,08 Cost own Molesale Corp. USD 44,234 1,086,829 0,10 Corteva Energy, Inc. USD 4,84,234 1,086,829 0,10 Corteva Energy, Inc. USD 4,90,24 1,518,763 0,14 Corteva Energy, Inc. USD 4,90,24 1,518,763 0,14 Intercontinental Exchange, Inc. USD 11,995 4,668,894 CV5 Health Corp. USD 15,182 482,911 0,04 Intuiti, Inc. USD 11,995 4,668,894 CV5 Health Corp. USD 15,183 1,90,664 14 0,37 Darling Ingredients, Inc. USD 1,513 11,976 0,01 Darling Ingredients, Inc. USD 2,2,881 745,298 0,03 Dell'a Echnologies, Inc. 'C' USD 7,031 282,787 0,03 Dell'a Echnologies, Inc. 'C' USD 8,10 9,677 4,83,862 0,04 Electronic Art. 'USD 1,700 435,862 0,04 Down Inc. USD 1,770 435,862 0,04 Down Corp. USD 1,770 435,862 0,04 Down Corp. USD 1,770 435,862 0,04 Down Corp. USD 7,683 375,084 0,03 Down Corp. USD 7,683 375,084 0,03 Down Corp. USD 7,683 375,084 0,03 Down Corp. USD 1,207 663,375 0,60 Down Corp. USD 1,208 6,379 142,762 Down Inc. 'USD 1,20			/							0.07
Corteva, Inc.  Costco Wholesale Corp.  USD 9,971 4,551,761 0,41  USD 44,244 1,086,829 0,00  Intercontinental Exchange, Inc.  USD 64,424 1,086,829 0,00  Intercontinental Exchange, Inc.  USD 64,48 170,421  USD 64,584 621,774 0,66  CSX Corp.  USD 49,024 1,518,763 0,14  CVS Health Corp.  USD 5,182 482,911 0,04  Daniaher Corp.  USD 15,283 4,056,414 0,37  Daniaher Corp.  USD 15,283 4,056,414 0,37  Darling Ingredients, Inc.  USD 15,283 4,056,414 0,37  Darling Ingredients, Inc.  USD 15,133 112,976 0,01  Dalvia, Inc.  USD 15,132 112,976 0,01  Delt Enchnologies, Inc. 'C'  USD 7,031 282,787 0,03  Delt Enchnologies, Inc. 'C'  USD 8,510 963,672 0,09  Delta Air Lines, Inc.  USD 2,2681 745,298 0,07  Diamondback Energy, Inc.  USD 2,2681 745,298 0,07  Domorback Energy, Inc.  USD 1,519 18,462 1,023,164 0,09  Domino's Pizza, Inc.  USD 1,507 484,601 0,04  Domino's Pizza, Inc.  USD 7,037 683 375,084 0,03  Dow Inc.  USD 7,038 98,042 0,04  Edison International Linc.  USD 7,038 98,042 0,04  Edison International Linc.  USD 7,037 683 375,084 0,03  Dow Inc.  USD 7,038 9,040 0,040 0,040 0,040 0,040 0,040 0,040 0,040 0,040 0,040 0,040 0,040 0,04										0.14
Costro Wholesale Corp.  USD 9,971 4,551,761 0.41 Insulet Corp. USD 44,234 1,086,829 0.10 Insulet Corp. USD 49,024 1,518,763 0.02 Intercontinental Exchange, Inc. USD 33,915 3,479,340 Intercontinental Exchange, Inc. USD 33,915 3,479,340 Intercontinental Exchange, Inc. USD 4,584 621,774 0.06 International Business Machines Corp. USD 6,448 170,421 Intercontinental Exchange, Inc. USD 1518,763 0.14 Intuit, Inc. USD 4,722 1,144,093 0.10 Intuit, Inc. USD 15,182 482,911 0.04 Intuit, Inc. USD 15,182 482,911 0.04 Intuit, Inc. USD 15,183 4,056,414 0.37 Investo Ltd. USD 2,861 179,070 0.02 Jack Henry & Associates, Inc. USD 2,861 179,070 0.01 Jack Henry & Associates, Inc. USD 15,472 6,633,775 0.60 Jack Henry & Associates, Inc. USD 15,472 6,633,775 0.60 Johnson & Johnson USD 2,267 375,075 Delta Air Lines, Inc. USD 2,861 745,298 0.07 Johnson Controls International Dic USD 1,191 3762,432 Descrop, Inc. USD 2,861 745,298 0.07 Johnson Controls International Dic USD 1,191 3762,432 Descrop, Inc. USD 1,170 435,862 0.04 KeyCorp USD 1,170 435,862 0.04 Kimberly-Clark Corp. USD 9,617 484,601 0.04 Law Research Corp. USD 1,291 370,889 USD 1,170 1 599,226 0.04 WeyCorp USD 1,138 429,060 0.04 Law Research Corp. USD 1,292 3,465,365 0.04 USD 5,299 4,005,039 0.07 USD 1,132 1,192,788 0.07 USD 1,170 1 599,226 0.04 USD 5,299 4,005,039 0.07 USD 1,132 1,192,788 0.07 USD 1,132 1,192,788 0.07 USD 1,170 1 599,226 0.04 USD 5,299 4,005,039 0.07 USD 1,132 1,192,788 0.07 USD 1,170 1 599,226 0.04 USD 5,299 4,005,039 0.07 USD 1,132 1,192,788 0.07 USD 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1	— · · · · · · · · · · · · · · · · · · ·									0.03 0.09
Corred Energy, Inc. Crowd Strike Holdings, Inc. 'A' Crowd Strike Holdings, Inc. 'A' Crowd Strike Holdings, Inc. 'A' Crowd Castle, Inc., REIT USD										0.06
Crown Castle, Inc., REIT USD 4,584 621,774 0.06 International Business Machines Corp. USD 16,580 2,335,956 (CSX Corp. USD 49,024 1,518,763 0.14 International Business Machines Corp. USD 16,580 2,335,956 (CSX Corp. USD 49,024 1,518,763 0.14 International Business Machines Corp. USD 11,995 4,668,694 (CVS Health Corp. USD 5,182 482,911 0.04 Intuit, Inc. USD 11,036 3,193,753 Intuit, Inc. USD 12,036 3,193,753 Intuit, Inc. USD 13,193,753 Intuit, Inc. USD 15,131 112,976 0.01 Jack Henry & Associates, Inc. USD 14,037 Intuitive Surgical, Inc. USD 15,472 6,633,775 0.60 MS mucker Co. (The) USD 2,367 375,075 Delft Air Lines, Inc. USD 22,681 745,298 0.07 Johnson & Johnson USD 42,206 7,455,690 Delft Air Lines, Inc. USD 22,681 745,298 0.07 Johnson & Johnson Controls International plc USD 11,191 762,432 Debtan Lines, Inc. USD 4,790 152,514 0.01 Keurig Dr Pepper, Inc. USD 41,871 1,493,120 Dexcom, Inc. USD 4,790 152,514 0.01 Keurig Dr Pepper, Inc. USD 41,871 1,493,120 Dexcom, Inc. USD 1,770 435,862 0.04 KeyGorp USD 21,291 370,889 Dowr Corp. USD 1,770 435,862 0.05 Kroger Co. (The) USD 1,138 429,060 DoorDash, Inc. 'A' USD 18,462 1,023,164 0.09 Dowr Corp. USD 7,569 1,024,918 0.09 Dowr Corp. USD 1,324 164,202 CR Horton, Inc. 'A' USD 2,883 375,084 0.03 Law Research Corp. USD 3,816 117,227 Ecolash, Inc. 'A' USD 2,883 72,249 0.07 USD 1,4824 1,207,267 0.11 Lintrolin National Corp. USD 3,816 117,227 Ecolash, Inc. Cusp 9,683 722,449 0.07 USD 1,4824										0.02
CSX Corp.  USD 49,024 1,518,763 0.14 Cummins, Inc.  USD 47,72 1,144,093 0.10 Interpublic Group of Cos., Inc. (The) USD 11,995 4,668,694 Intuit, Inc. Intuitive Surgical, Inc. USD 12,036 3,193,753 Danaher Corp. Darling Ingredients, Inc. USD 15,283 4,056,414 0.37 Darling Ingredients, Inc. USD 2,861 179,070 0.02 Davita, Inc. USD 1,513 112,976 0.01 Deere & Co. USD 15,472 6,633,775 0.60 Dell Technologies, Inc. 'C' USD 7,031 282,787 0.03 Dell Technologies, Inc. 'C' USD 7,031 282,787 0.03 Johnson & Johnson USD 42,206 7,455,690 Delta Air Lines, Inc. USD 2,681 745,298 0.07 Delton, Inc. USD 8,510 963,672 0.09 Diamondback Energy, Inc. DocuSign, Inc. 'A' USD 1,701 358,662 0.04 Domino's Pizza, Inc. USD 1,701 383,862 0.04 Domino's Pizza, Inc. USD 7,683 375,084 0.03 Down (Inc. USD 7,683 375,084 0.03 Down (Inc. USD 7,027 626,387 0.03 Down (Inc. USD 7,027 626,387 0.03 Down (Inc. USD 1,848 14,027,267 0.04 Diamondback Inc. 'A' USD 6,379 142,762 DuPont de Nemours, Inc. USD 1,869 1,251,442 DuPont de Nemours, Inc. USD 1,869 1,251,442 DuPont de Nemours, Inc. USD 1,969 1,251,442 DuPont de Nemours, Inc. USD 1,007 123,035 0.01 Electronic Arts, Inc. USD 1,007 123,035 0.01 Electronic Arts, Inc. USD 1,518 11,918 11,195 11,100 Intuitive Surgical, Inc. USD 1,39733 Intuitive Surgical, Inc. USD 1,468,694 (111,tinc. Intuitive Surgical, Inc. USD 1,68,694 (112,036 1,101,tinc. USD 1,513 112,976 0.01 Intuitive Surgical, Inc. USD 1,68,694 (112,036 1,101,tinc. USD 1,513 112,976 0.01 Intuitive Surgical, Inc. USD 1,68,694 (112,036 1,101,tinc. USD 1,46,894 11,40,03										0.31 0.21
Cummins, Inc.  CVS Health Corp.  USD 5,182 482,911 0,04  Intuitive Surgical, Inc.  USD 15,283 4,056,6144 0,37  Darling Ingredients, Inc.  USD 15,283 4,056,6144 0,37  Darling Ingredients, Inc.  USD 1,513 112,976 0,01  Darling Ingredients, Inc.  USD 1,513 112,976 0,01  Dever & Co.  USD 15,472 6,633,775 0,60  Dell Technologies, Inc. 'C'  USD 7,031 282,787 0,03  Delta Air Lines, Inc.  USD 2,681 745,298 0,07  Delta Air Lines, Inc.  USD 2,861 745,298 0,07  Delta Air Lines, Inc.  USD 4,790 152,514 0,01  Dexcom, Inc.  USD 8,510 963,672 0,09  Diamondback Energy, Inc.  USD 1,701 435,862 0,04  Domino's Pizza, Inc.  USD 1,701 435,862 0,04  Domino's Pizza, Inc.  USD 7,683 375,084 0,03  Down, Inc.  USD 7,683 375,084 0,03  Down, Inc.  USD 7,027 626,337 0,06  DuPont de Nemours, Inc.  USD 1,883 742,249 0,07  Electronic Arts, Inc.  USD 1,995 4,668,694  Intuitive Surgical, Inc.  USD 1,193 3,193,783  Intuitive Surgical, Inc.  USD 3,437 61,832  Intuitive Surgical, Inc.  USD 3,437 61,832  Intuitive Surgical, Inc.  USD 4,377 0,01  USD 4,206 7,455,690  Down Corp.  USD 1,142 199,119  Down Corp.  USD 1,195 4,668,694  Intuitive Surgical, Inc.  USD 4,206 7,455,690  Down Corp.  USD 4,206 7,455,690  Down Corp.  USD 1,195 4,668,694  Intuitive Surgical, Inc.  USD 4,206 7,455,075  Invesco Ltd.  USD 4,206 7,455,075  Invesco Ltd.  USD 1,142 199,119  Invesco Ltd.  US										0.05
Danaher Corp.  USD 15,283 4,056,414 0.37 Invesco Ltd.  Darling Ingredients, inc.  USD 2,861 179,070 0.02 Jak Henry & Associates, Inc.  USD 1,513 112,976 0.01 JB Hunt Transport Services, Inc.  USD 1,513 112,976 0.01 JB Hunt Transport Services, Inc.  USD 1,142 199,119 JB Hunt Transport Services, Inc.  USD 2,681 745,298 0.07 Johnson USD 2,367 375,075 Johnson USD 2,367 375,075 Johnson USD 2,367 375,075 Johnson USD 2,367 375,075 Johnson USD 2,368 1745,298 0.07 Johnson Outrols International plc USD 11,913 762,432 Johnson USD 1,913 762,432 Johnson USD 1,931 Johnson Controls International plc USD 1,931 762,432 Johnson USD 1,931 Johnso					0.10					0.42
Darling Ingredients, Inc.  USD 2,861 179,070 0.02 Jack Henry & Associates, Inc.  USD 1,513 112,976 0.01 Jack Henry & Associates, Inc.  USD 1,513 112,976 0.01 Jack Henry & Associates, Inc.  USD 1,513 112,976 0.01 Jack Henry & Associates, Inc.  USD 2,367 375,075  Dell Technologies, Inc. 'C' USD 7,031 282,787 0.03 Johnson & Johnson USD 42,206 7,455,690  Delta Air Lines, Inc.  USD 22,681 745,298 0.07 Johnson & Johnson USD 42,206 7,455,690  Delta Air Lines, Inc.  USD 4,790 152,514 0.01 Keurig Dr Pepper, Inc.  USD 4,790 152,514 0.01 Keurig Dr Pepper, Inc.  USD 4,790 152,514 0.01 Keurig Dr Pepper, Inc.  USD 4,8510 963,672 0.09 KeyCorp  Exexom, Inc.  Dexcom, Inc.  USD 8,510 963,672 0.09 KeyCorp  Exeysight Technologies, Inc.  USD 2,2681 745,298 0.07 Johnson Control International plc  USD 1,1913 762,432  Dexcom, Inc.  Dexcom, Inc.  USD 2,894,128 0.26 Keysight Technologies, Inc.  USD 2,894,128 0.26 Keysight Technologies, Inc.  USD 1,770 435,862 0.04 KLA Corp.  USD 1,770 435,862 0.04 KLA Corp.  USD 1,770 435,862 0.05 Kroger Co. (The)  Domino's Pizza, Inc.  USD 7,663 375,084 0.03  Dowr Corp.  USD 7,569 1,024,918 0.09  Dowr Corp.  USD 7,027 626,387 0.06 Law Negas Sands Corp.  USD 1,027 626,387 0.06 Law Negas Sands Corp.  USD 1,294 164,202  Dropbox, Inc. 'A'  USD 6,379 142,762 0.01  Eartman Chemical Co.  USD 14,824 1,207,267 0.11  Eastman Chemical Co.  USD 14,824 1,207,267 0.11  Eastman Chemical Co.  USD 14,824 1,207,267 0.11  Eastman Chemical Co.  USD 19,669 1,251,342 0.11  Lennox International, Inc.  USD 1,754 379,162  Edwards Lifesciences Corp.  USD 6,476,894  Electronic Arts, Inc.  USD 6,85 192,155  USD 6,157 916,716						_				0.29 0.01
Davita, Inc.         USD         1,513         112,976         0.01         JB Hunt Transport Services, Inc.         USD         1,142         199,119           Deere & Co.         USD         15,472         6,633,775         0.60         JM Smucker Co. (The)         USD         2,367         375,075           Dell Technologies, Inc. 'C'         USD         7,031         282,787         0.03         Johnson & Johnson         USD         42,206         7,455,690           Delta Air Lines, Inc.         USD         4,790         152,514         0.01         Keurig Dr Pepper, Inc.         USD         41,871         1,493,120           Dexcom, Inc.         USD         8,510         963,672         0.09         Kevig Dr Pepper, Inc.         USD         21,291         370,889           Diamondback Energy, Inc.         USD         21,159         2,894,128         0.26         Keysight Technologies, Inc.         USD         20,257         3,465,365           Doullar General Corp.         USD         1,701         589,862         0.05         Keysight Technologies, Inc.         USD         1,173         2,195,485           DoorDash, Inc. 'A'         USD         1,701         589,226         0.05         Kroger Co. (The)         USD         1,132         4										0.01
Dell Technologies, Inc. 'C' USD 7,031 282,787 0.03 Johnson & Johns					0.01					0.02
Delta Air Lines, Inc.  USD 22,681 745,298 0.07  Johnson Controls International plc  USD 11,913 762,432  DENTSPLY SIRONA, Inc.  USD 4,790 152,514 0.01  Exercising Inc.  USD 4,790 152,514 0.01  Exercising Inc.  USD 21,159 2,894,128  Diamondback Energy, Inc.  USD 21,159 2,894,128  DocuSign, Inc. 'A'  USD 18,462 1,023,164 0.09  Meycight Technologies, Inc.  USD 20,257 3,465,365  DocuSign, Inc. 'A'  Dollar General Corp.  USD 1,770 435,862 0.04  Exercising Inc. 'A'  USD 1,701 589,226 0.05  Downino's Pizza, Inc.  USD 1,701 589,226 0.05  Downer Corp.  USD 7,683 375,084 0.03  Lam Research Corp.  USD 1,701 484,601 0.04  Eaves Sands Corp.  USD 3,199 285,863  Dow, Inc.  DR Horton, Inc.  Dropbox, Inc. 'A'  USD 6,379 142,762 0.01  Enenar Corp. 'A'  USD 2,9873 2,703,506  DTE Energy Co.  USD 1,824 1,207,267  Eastman Chemical Co.  USD 1,824 1,207,267  Eastman Chemical Co.  USD 1,969 1,251,342  Edison International  USD 1,007 125,342  DUSD 1,007 125,342  Electronic Arts, Inc.  USD 2,894,128  Dought Corp.  USD 1,754 179,120  USD 1,754 179,162										0.03 0.67
DENTSPLY SIRONA, Inc.  DEXTORNA, Inc.  USD 4,790 152,514 0.01 Keurig Dr Pepper, Inc.  WSD 41,871 1,493,120 (Exercise)  Dexcom, Inc.  Dexcom, Inc.  USD 8,510 963,672 0.09 (Exercise)  KeyCorp USD 21,291 370,889 (Exercise)  Diamondback Energy, Inc.  USD 22,159 2,894,128 0.26 (Exercise)  MeySight Technologies, Inc.  USD 20,257 3,465,365 (Exercise)  MeySight Technologies, Inc.  USD 16,173 2,195,485 (Exercise)  MeySight Technologies, Inc.  USD 16,173 2,195,485 (Inc.)  USD 16,173 2,195,485 (Inc.)  USD 16,173 2,195,485 (Inc.)  USD 1,701 589,226 0.04 (Inc.)  MeySight Technologies, Inc.  USD 16,173 2,195,485 (Inc.)  USD 1,188 429,060 (Inc.)  WSD 1,188 429,060 (Inc.)  WSD 1,1927 85,906 (Inc.)  MeySoght Technologies, Inc.  USD 1,188 429,060 (Inc.)  WSD 1,1927 85,906 (Inc.)  WSD 1,927 85,906 (Inc.)  Lam Research Corp.  USD 3,199 285,863 (Inc.)  USD 3,199 285,863 (Inc.)  USD 3,199 285,863 (Inc.)  Down Inc.  USD 1,027 626,387 (Inc.)  USD 1,324 164,202 (Inc.)  Depond de Nemours, Inc.  USD 5,299 622,791 0.06 (Inc.)  Demondack Energy, Inc.  USD 14,824 1,207,267 0.11 (Inc.)  Energy Co.  USD 14,824 1,207,267 0.11 (Inc.)  USD 14,824 1,207,267 0.11 (Inc.)  Energy Co.  USD 14,824 1,207,267 0.11 (Inc.)  USD 14,824 1,207,267 0.11 (Inc.)  Energy Co.  USD 19,669 1,251,342 0.11 (Inc.)  USD 19,669 1,251,342 0.11 (Inc.)  USD 3,508 (A76,894 (Inc.))  Energy Co.  USD 3,768 (Inc.)  USD 3,768 (Inc.)  USD 3,768 (Inc.)  WSD 3,768 (Inc.)  USD 3,768 (Inc.)  WSD 3,768 (Inc.)  WSD 3,773 226,937 (Inc.)  Energy Co.  USD 3,769 (Inc.)  USD 3,7	<b>G</b> .									0.07
Diamondback Energy, Inc.         USD         21,159         2,894,128         0.26         Keysight Technologies, Inc.         USD         20,257         3,465,365           DocuSign, Inc. 'A'         USD         18,462         1,023,164         0.09         Kimberly-Clark Corp.         USD         16,173         2,195,485           Dollar General Corp.         USD         1,770         435,862         0.04         KLA Corp.         USD         1,138         429,060           Domino's Pizza, Inc.         USD         1,701         589,226         0.05         Kroger Co. (The)         USD         1,927         85,906           DoorDash, Inc. 'A'         USD         7,683         375,084         0.03         Lam Research Corp.         USD         9,529         4,005,039           Dow, Inc.         USD         9,617         484,601         0.04         Las Vegas Sands Corp.         USD         3,199         285,863           Dow, Inc.         USD         7,027         626,387         0.06         Lear Corp.         USD         1,324         164,202           Dropbox, Inc. 'A'         USD         5,299         622,791         0.06         Lennox International, Inc.         USD         7,22         172,724           DuPont de										0.13
DocuSign, Inc. 'A'         USD         18,462         1,023,164         0.09         Kimberly-Clark Corp.         USD         16,173         2,195,485           Dollar General Corp.         USD         1,770         435,862         0.04         KLA Corp.         USD         1,138         429,060           Domino's Pizza, Inc.         USD         1,701         589,226         0.05         Kroger Co. (The)         USD         1,927         85,906           DoorDash, Inc. 'A'         USD         7,683         375,084         0.03         Lam Research Corp.         USD         9,529         4,005,039           Dover Corp.         USD         7,569         1,024,918         0.09         Lamb Weston Holdings, Inc.         USD         3,199         285,863           Dow, Inc.         USD         9,617         484,601         0.04         Las Vegas Sands Corp.         USD         6,885         330,962           DR Horton, Inc.         USD         7,027         626,387         0.06         Lear Corp.         USD         1,324         164,202           Dropbox, Inc. 'A'         USD         5,299         622,791         0.06         Lennar Corp. 'A'         USD         722         172,724           DuPont de Nemours, Inc.										0.03 0.31
Dollar General Corp.         USD         1,770         435,862         0.04         KLA Corp.         USD         1,138         429,060           Domino's Pizza, Inc.         USD         1,701         589,226         0.05         Kroger Co. (The)         USD         1,927         85,906           Dowr Dash, Inc. 'A'         USD         7,683         375,084         0.03         Lam Research Corp.         USD         9,529         4,005,039           Dover Corp.         USD         7,569         1,024,918         0.09         Lam Research Corp.         USD         3,199         285,863           Dow, Inc.         USD         9,617         484,601         0.04         Las Vegas Sands Corp.         USD         6,885         330,962           DR Horton, Inc.         USD         7,027         626,387         0.06         Lear Corp.         USD         1,324         164,202           Dropbox, Inc. 'A'         USD         5,299         622,791         0.06         Lennar Corp. 'A'         USD         29,873         2,703,506           DEF Energy Co.         USD         14,824         1,207,267         0.11         Lincoln National Corp. Liberty SiriusXM 'A'         USD         5,773         226,937           Eastman Chemical C										0.20
Doorbash, Inc. 'A'										0.04
Dover Corp.   USD   7,569   1,024,918   0,09   Lamb Weston Holdings, Inc.   USD   3,199   285,863										0.01 0.36
Dow, Inc.         USD         9,617         484,601         0.04         Las Vegas Sands Corp.         USD         6,885         330,962           DR Horton, Inc.         USD         7,027         626,387         0.06         Lear Corp.         USD         1,324         164,202           Dropbox, Inc. 'A'         USD         6,379         142,762         0.01         Lennar Corp. 'A'         USD         29,873         2,703,506           DTE Energy Co.         USD         5,299         622,791         0.06         Lennox International, Inc.         USD         722         172,724           DuPont de Nemours, Inc.         USD         14,824         1,207,267         0.11         Lincoln National CorpLiberty SiriusXM 'A'         USD         5,773         226,937           Eastman Chemical Co.         USD         14,824         1,207,267         0.11         Lincoln National Corp.         USD         3,816         117,227           Ecolab, Inc.         USD         4,028         586,316         0.05         Lowe's Cos., Inc.         USD         32,508         6,476,884           Edwards Lifesciences Corp.         USD         9,683         722,449         0.07         Lucid Group, Inc.         USD         8,414         57,468 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.03</td></t<>										0.03
Dropbox, Inc. 'A'         USD         6,379         142,762         0.01         Lennar Corp. 'A'         USD         29,873         2,703,506           DTE Energy Co.         USD         5,299         622,791         0.06         Lennox International, Inc.         USD         722         172,724           DuPont de Nemours, Inc.         USD         2,180         149,613         0.01         Liberty Media CorpLiberty SiriusXM 'A'         USD         5,773         226,937           Eastman Chemical Co.         USD         4,824         1,207,267         0.11         Lincoln National Corp.         USD         3,816         117,227           Ecolab, Inc.         USD         4,028         586,316         0.05         Lowe's Cos., Inc.         USD         32,508         6,476,894           Edison International         USD         19,669         1,251,342         0.11         LPL Financial Holdings, Inc.         USD         1,754         379,162           Edwards Lifesciences Corp.         USD         9,683         722,449         0.07         Lucid Group, Inc.         USD         8,414         57,468           Electronic Arts, Inc.         USD         25,924         9,484,036         0.85         Marriott International, Inc. 'A'         USD         6,157 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.03</td>										0.03
DTE Energy Co. USD 5,299 622,791 0.06 Lennox International, Inc. USD 722 172,724  DuPont de Nemours, Inc. USD 2,180 149,613 0.01 Liberty Media CorpLiberty SiriusXM 'A' USD 5,773 226,937  Eastman Chemical Co. USD 14,824 1,207,267 0.11 Lincoln National Corp. USD 3,816 117,227  Ecolab, Inc. USD 4,028 586,316 0.05 Lowe's Cos., Inc. USD 32,508 6,476,894  Edison International USD 19,669 1,251,342 0.11 LPL Financial Holdings, Inc. USD 1,754 379,162  Edwards Lifesciences Corp. USD 9,683 722,449 0.07 Lucid Group, Inc. USD 8,414 57,468  Electronic Arts, Inc. USD 1,007 123,035 0.01 MarketAxess Holdings, Inc. USD 6,157 916,716										0.02 0.24
DuPont de Nemours, Inc.         USD         2,180         149,613         0.01         Liberty Media CorpLiberty SiriusXM 'A'         USD         5,773         226,937           Eastman Chemical Co.         USD         14,824         1,207,267         0.11         Lincoln National Corp.         USD         3,816         117,227           Ecolab, Inc.         USD         4,028         586,316         0.05         Lowe's Cos., Inc.         USD         32,508         6,476,894           Edison International         USD         19,669         1,251,342         0.11         LPL Financial Holdings, Inc.         USD         1,754         379,162           Edwards Lifesciences Corp.         USD         9,683         722,449         0.07         Lucid Group, Inc.         USD         8,414         57,468           Electronic Arts, Inc.         USD         1,007         123,035         0.01         MarketAxess Holdings, Inc.         USD         689         192,155           Eli Lilly & Co.         USD         25,924         9,484,036         0.85         Marriott International, Inc. 'A'         USD         6,157         916,716						· · · · · · · · · · · · · · · · · · ·				0.02
Eastman Chemical Co.         USD         14,824         1,207,267         0.11         Lincoln National Corp.         USD         3,816         117,227           Ecolab, Inc.         USD         4,028         586,316         0.05         Lowe's Cos., Inc.         USD         32,508         6,476,894           Edison International         USD         19,669         1,251,342         0.11         LPL Financial Holdings, Inc.         USD         1,754         379,162           Edwards Lifesciences Corp.         USD         9,683         722,449         0.07         Lucid Group, Inc.         USD         8,414         57,468           Electronic Arts, Inc.         USD         1,007         123,035         0.01         MarketAxess Holdings, Inc.         USD         689         192,155           Eli Lilly & Co.         USD         25,924         9,484,036         0.85         Marriott International, Inc. 'A'         USD         6,157         916,716						Liberty Media CorpLiberty SiriusXM 'A'	USD	5,773	226,937	0.02
Edison International USD 19,669 1,251,342 0.11 LPL Financial Holdings, Inc. USD 1,754 379,162 Edwards Lifesciences Corp. USD 9,683 722,449 0.07 Lucid Group, Inc. USD 8,414 57,468 Electronic Arts, Inc. USD 1,007 123,035 0.01 MarketAxess Holdings, Inc. USD 689 192,155 Eli Lilly & Co. USD 25,924 9,484,036 0.85 Marriott International, Inc. 'A' USD 6,157 916,716	Eastman Chemical Co.	USD	14,824	1,207,267						0.01 0.58
Edwards Lifesciences Corp. USD 9,683 722,449 0.07 Lucid Group, Inc. USD 8,414 57,468 Electronic Arts, Inc. USD 1,007 123,035 0.01 MarketAxess Holdings, Inc. USD 689 192,155 Eli Lilly & Co. USD 25,924 9,484,036 0.85 Marriott International, Inc. 'A' USD 6,157 916,716										0.58
Electronic Arts, Inc. USD 1,007 123,035 0.01 MarketAxess Holdings, Inc. USD 689 192,155 Eli Lilly & Co. USD 25,924 9,484,036 0.85 Marriott International, Inc. 'A' USD 6,157 916,716						Lucid Group, Inc.	USD	8,414	57,468	0.01
	Electronic Arts, Inc.	USD	1,007	123,035						0.02 0.08
Martin Marietta Materials, Inc. USD 2,276 769,220	EII LIIIY & Co.	USD	25,924	9,484,036	0.85	Marriott International, Inc. A Martin Marietta Materials, Inc.			769,220	0.08

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Masco Corp.	USD	35,371	1,650,765	0.15	Synchrony Financial	USD	10,181	334,548	0.03
Mastercard, Inc. 'A'	USD	29,319	10,195,096	0.92	Sysco Corp.	USD	1,857	141,968	0.01
McCormick & Co., Inc. McDonald's Corp.	USD USD	5,547 23,276	459,791 6,133,924	0.04 0.55	T Rowe Price Group, Inc. Target Corp.	USD USD	14,591 9,139	1,591,294 1,362,077	0.14 0.12
McKesson Corp.	USD	2,453	920,169	0.08	TE Connectivity Ltd.	USD	12,330	1,415,484	0.13
Merck & Co., Inc.	USD	56,892	6,312,167	0.57	Teradyne, Inc.	USD	6,309	551,091	0.05
Meta Platforms, Inc. 'A' MetLife, Inc.	USD	51,053	6,143,718 776,820	0.55 0.07	Tesla, Inc. Texas Instruments, Inc.	USD	59,133	7,284,003 6,522,059	0.66 0.59
Microchip Technology, Inc.	USD USD	10,734 22,766	1,599,311	0.07	Thermo Fisher Scientific, Inc.	USD USD	39,475 14,417	7.939.298	0.59
Micron Technology, Inc.	USD	17,659	882,597	0.08	TJX Cos., Inc. (The)	USD	33,530	2,668,988	0.24
Microsoft Corp.	USD	169,515	40,653,087	3.66	T-Mobile US, Inc.	USD	25,463	3,564,820	0.32
Mid-America Apartment Communities, Inc., REIT	USD	3,958	621,366	0.06	Tractor Supply Co. Trade Desk, Inc. (The) 'A'	USD USD	2,577 9,814	579,748 439,962	0.05 0.04
Molson Coors Beverage Co. 'B'	USD	3,955	203,762	0.02	Travelers Cos., Inc. (The)	USD	20,886	3,915,916	0.35
Mondelez International, Inc. 'A'	USD	3,363	224,144	0.02	Trimble, Inc.	USD	3,454	174,634	0.02
Monster Beverage Corp. Morgan Stanley	USD USD	8,657 41,709	878,945 3,546,099	0.08 0.32	Truist Financial Corp.	USD	85,255	3,668,523	0.33 0.13
Motorola Solutions, Inc.	USD	2,612	673,139	0.06	Uber Technologies, Inc. UDR, Inc., REIT	USD USD	56,494 17,353	1,397,097 672,082	0.13
Netflix, Inc.	USD	14,586	4,301,120	0.39	UGI Corp.	USD	4,645	172,190	0.02
Neurocrine Biosciences, Inc.	USD	4,574	546,319	0.05	U-Haul Holding Co. 'B'	USD	1,914	105,232	0.01
Newell Brands, Inc. Newmont Corp.	USD USD	8,813 13,791	115,274 650,935	0.01 0.06	Ulta Beauty, Inc.	USD	2,000	938,140	0.08
News Corp. 'A'	USD	43,087	784,183	0.00	Union Pacific Corp. United Parcel Service, Inc. 'B'	USD USD	13,958 29,627	2,890,283 5,150,358	0.26 0.46
NextEra Energy, Inc.	USD	78,000	6,520,800	0.59	United Rentals, Inc.	USD	1,600	568,672	0.05
NIKE, Inc. 'B'	USD	27,744	3,246,325	0.29	UnitedHealth Group, Inc.	USD	26,749	14,181,785	1.28
Nordson Corp.	USD	1,150	273,378	0.02	US Bancorp	USD	105,372	4,595,273	0.41
Norfolk Southern Corp. Northern Trust Corp.	USD USD	20,881 4,204	5,145,496 372,012	0.46 0.03	Vail Resorts, Inc. Ventas, Inc., REIT	USD	2,285	544,630 1,597,698	0.05 0.14
Nucor Corp.	USD	9,061	1,194,330	0.11	Verizon Communications, Inc.	USD USD	35,465 40,450	1,593,730	0.14
NVIDIA Corp.	USD	52,306	7,643,999	0.69	Vertex Pharmaceuticals, Inc.	USD	12,790	3,693,496	0.33
Old Dominion Freight Line, Inc.	USD	1,711	485,548	0.04	VICI Properties, Inc., REIT	USD	15,241	493,808	0.04
Omnicom Group, Inc. ON Semiconductor Corp.	USD USD	4,539 17,869	370,246 1,114,490	0.03 0.10	Visa, Inc. 'A'	USD	52,333	10,872,704	0.98
Oracle Corp.	USD	35,627	2,912,151	0.10	Walmart, Inc. Walt Disney Co. (The)	USD USD	15,522 23,771	2,200,864 2,065,224	0.20 0.19
O'Reilly Automotive, Inc.	USD	2,582	2,179,285	0.20	Warner Bros Discovery, Inc.	USD	50,018	474,171	0.04
Otis Worldwide Corp.	USD	29,458	2,306,856	0.21	Waste Connections, Inc.	USD	5,703	755,990	0.07
Owens Corning PACCAR, Inc.	USD	2,224	189,707 604,113	0.02 0.05	Waste Management, Inc.	USD	8,455	1,326,420	0.12
Palantir Technologies, Inc. 'A'	USD USD	6,104 21,067	135,250	0.03	Wells Fargo & Co. Welltower, Inc., REIT	USD USD	139,262 10,043	5,750,128 658,319	0.52 0.06
Palo Alto Networks, Inc.	USD	6,555	914,685	0.08	Western Union Co. (The)	USD	40,804	561,871	0.05
Parker-Hannifin Corp.	USD	16,160	4,702,560	0.42	Weyerhaeuser Co., REIT	USD	9,685	300,235	0.03
PayPal Holdings, Inc.	USD	5,126	365,074	0.03	Workday, Inc. 'A'	USD	12,335	2,064,016	0.19
PepsiCo, Inc. Pfizer, Inc.	USD USD	32,251 70,929	5,826,466 3,634,402	0.52 0.33	WW Grainger, Inc. Xcel Energy, Inc.	USD USD	1,100 11,567	611,875 810,962	0.06 0.07
PG&E Corp.	USD	115,812	1,883,103	0.17	Xylem, Inc.	USD	10,183	1,125,934	0.10
Phillips 66	USD	12,099	1,259,264	0.11	Yum! Brands, Inc.	USD	7,092	908,343	0.08
Pinterest, Inc. 'A'	USD	17,346	421,161	0.04	Zebra Technologies Corp. 'A'	USD	1,161	297,692	0.03
Plug Power, Inc. Pool Corp.	USD USD	11,659 880	144,222 266,050	0.01	Zillow Group, Inc. 'C' Zimmer Biomet Holdings, Inc.	USD USD	5,779 14,321	186,142 1,825,927	0.02 0.16
PPG Industries, Inc.	USD	17,056	2,144,621	0.19	Zoetis, Inc. 'A'	USD	2,146	314,496	0.03
Procter & Gamble Co. (The)	USD	55,397	8,395,969	0.76	Zoom Video Communications, Inc. 'A'	USD	5,029	340,664	0.03
Progressive Corp. (The)	USD	41,822	5,424,732	0.49	ZoomInfo Technologies, Inc. 'A'	USD	6,193	186,471	0.02
Prologis, Inc., REIT Prudential Financial, Inc.	USD USD	35,541 33,501	4,006,537 3,332,009	0.36 0.30	United States total			728,794,709	65.64
PTC, Inc.	USD	2,473	296,859	0.03					
Public Service Enterprise Group, Inc.	USD	43,644	2,674,068	0.24	Uruguay (31 December 2021: 0.00%) MercadoLibre, Inc.	HCD	0.41	711,688	0.06
Public Storage, REIT	USD	1,480	414,681	0.04	Mercadocibre, IIIc.	USD	841		
PulteGroup, Inc. Qorvo, Inc.	USD USD	20,447 3,629	930,952 328,933	0.08	Uruguay total			711,688	0.06
QUALCOMM, Inc.	USD	13,175	1,448,459	0.13	Total investments in Equities				
Quanta Services, Inc.	USD	3,145	448,162	0.04	Total investments in Equities			1,101,672,405	99.22
Raymond James Financial, Inc.	USD	13,139	1,403,902	0.13					
Realty Income Corp., REIT Regency Centers Corp., REIT	USD USD	7,373 3,412	467,669 213,250	0.04					
Regeneron Pharmaceuticals, Inc.	USD	6,043	4,359,964	0.39					
Regions Financial Corp.	USD	30,287	652,988	0.06					
ResMed, Inc.	USD	784	163,174	0.01					
Rivian Automotive, Inc. 'A' Rockwell Automation, Inc.	USD USD	6,939 2,527	127,886 650,879	0.01 0.06					
Roper Technologies, Inc.	USD	2,344	1,012,819	0.09					
Royal Caribbean Cruises Ltd.	USD	10,116	500,034	0.05					
S&P Global, Inc.	USD	13,204	4,422,548	0.40					
Salesforce, Inc. SBA Communications Corp., REIT 'A'	USD USD	19,169 6,095	2,541,618 1,708,489	0.23 0.15					
Seagate Technology Holdings plc	USD	31,391	1,651,480	0.15					
Sempra Energy	USD	20,712	3,200,832	0.29					
ServiceNow, Inc.	USD	4,187	1,625,686	0.15					
Sirius XM Holdings, Inc. Snap, Inc. 'A'	USD USD	8,700 37,296	50,808 333,799	0.00					
Snap-on, Inc.	USD	37,296 5,345	1,221,279	0.03					
Southern Co. (The)	USD	1,124	80,265	0.01					
Southwest Airlines Co.	USD	8,015	269,865	0.02					
Stanley Black & Decker, Inc.	USD	2,097	157,527	0.01					
State Street Corp. Steel Dynamics, Inc.	USD USD	20,477 4,413	1,588,401 431,150	0.14 0.04					
Sun Communities, Inc., REIT	USD	9,725	1,390,675	0.13					
SVB Financial Group	USD	2,119	487,667	0.04					

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class EUR Hedge	d (acc)*						
AUD	943,719	USD	635,132	03/01/2023		4,851	-
CAD	1,422,935	USD	1,047,188	03/01/2023		2,988	-
DKK	1,371,529	USD	196,183		State Street	653	-
EUR EUR	154,835 194,763	CAD CHF	215,823 191,454		Morgan Stanley Goldman Sachs	5,963 928	-
EUR	205,004	CHF	201,747		Goldman Sachs	452	-
EUR	181,136	GBP	158,889		Goldman Sachs	2,189	-
EUR	323,143	GBP	286,346		Goldman Sachs	866	-
EUR	155,031	HKD	1,264,795		Morgan Stanley	3,407	-
EUR	195,542	JPY	27,379,497		Goldman Sachs	1,186	-
EUR EUR	164,592 300,818	SEK USD	1,817,857 310,991		Goldman Sachs Bank of America Merrill Lynch	1,194 10,057	-
EUR	29,110,852	USD	31,039,359	02/02/2023		94,876	0.01
EUR	247,860	USD	262,569		BNP Paribas	1,959	-
EUR	3,308,049	USD	3,515,255		Goldman Sachs	15,258	-
EUR	4,107,478	USD	4,390,791		Goldman Sachs	2,182	-
EUR	587,427	USD	615,268	03/01/2023		11,662	-
EUR	1,337,348	USD	1,421,949	02/02/2023		8,353	-
EUR	166,011	USD	175,483		Morgan Stanley	1,692	-
EUR	280,079	USD	298,488	03/01/2023 02/02/2023		426 980	-
EUR EUR	318,946 195,542	USD USD	340,134 208,558	02/02/2023		575	-
EUR	26,604,951	USD	27,643,239		Standard Chartered	750,883	0.07
JPY	277,652,282	USD	2,078,127		State Street	26,176	-
SEK	2,656,955	USD	253,549		Bank of America Merrill Lynch	1,450	-
SGD	32,846	USD	24,356	03/01/2023		134	-
USD	900,124	CAD	1,207,112	03/01/2023	Goldman Sachs	9,234	-
USD	1,365,297	GBP	1,133,168	03/01/2023		2,208	-
USD	1,557,418	GBP	1,292,058		State Street	1,884	-
USD	254,782	HKD	1,985,124	02/02/2023	Barclays	279	=
Class GBP Hedge		USD	2,399,112	03/01/2023	DDC	10 222	
CAD	3,564,749 5,995,650	USD	4,412,408	03/01/2023		18,323 12,589	-
DKK	8,961,528	USD	1,281,855		State Street	4,270	_
EUR	13,239,316	USD	14,086,632	03/01/2023		43,021	0.01
GBP	940,910	USD	1,122,036		Citibank NA	9,785	-
JPY	1,214,091,051	USD	9,087,032	04/01/2023	State Street	114,462	0.01
SEK	8,193,202	USD	781,863		Bank of America Merrill Lynch	4,471	-
SGD	435,721	USD	323,098	03/01/2023		1,775	-
USD	4,470,862	CAD	5,995,650		Goldman Sachs	45,865	0.01
USD USD	2,164,627 939,172	GBP GBP	1,772,944 772,510	03/01/2023 03/01/2023		31,952 9,919	-
USD	3,414,986	GBP	2,806,892		Morgan Stanley	38,575	0.01
USD	1,191,361	GBP	976,881		Morgan Stanley	16,270	0.01
USD	1,501,144	GBP	1,242,422	02/02/2023		5,367	-
USD	137,905,423	GBP	114,499,447		State Street	173,990	0.02
USD	1,557,632	GBP	1,279,394	03/01/2023	State Street	18,649	-
USD	888,477	HKD	6,922,527	02/02/2023	Barclays	973	
Total unrealised	gain on Forward Currency Contracts (31	December 2021: 0.01%)				1,515,201	0.14
Class EUR Hedge	d (acc)*						
CHF	944,339	USD	1,020,830	03/01/2023	Morgan Stanley	(143)	-
EUR	196,695	AUD	310,427		Goldman Sachs	(419)	-
EUR	290,570	CAD	421,389		Goldman Sachs	(279)	-
EUR	180,421	DKK	1,341,504	02/02/2023		(26)	-
EUR EUR	385,857 554,531	JPY USD	54,741,063 593,097		Goldman Sachs Goldman Sachs	(3,884) (23)	-
GBP	554,531 1,292,058	USD	1,556,180		State Street	(1,963)	-
HKD	1,292,036	USD	254,634	03/01/2023		(292)	-
USD	164,642	AUD	244,578		Morgan Stanley	(1,219)	_
USD	470,694	AUD	699,140		Morgan Stanley	(3,428)	-
USD	635,867	AUD	943,719	02/02/2023		(4,935)	-
USD	1,047,325	CAD	1,422,935	02/02/2023	HSBC	(3,002)	-
USD	1,024,013	CHF	944,339		Morgan Stanley	(152)	-
USD	795,856	CHF	752,885		State Street	(17,897)	-
USD	191,583	DKK	1,371,529		Standard Chartered	(5,253)	-
USD	196,649	DKK	1,371,529	02/02/2023		(658)	-
USD USD	189,617 284,517	EUR EUR	178,137 266,890		Bank of America Merrill Lynch Bank of America Merrill Lynch	(500) (924)	-
USD	30,973,947	EUR	29,110,852	03/01/2023		(94,596)	(0.01)
USD	351,678	EUR	330,503		BNP Paribas	(1,798)	(0.01)
USD	1,121,433	EUR	1,053,428		Goldman Sachs	(5,215)	-
USD	229,325	EUR	215,809	03/01/2023		(996)	-
USD	374,087	EUR	355,171	03/01/2023	HSBC	(4,969)	-
USD	422,137	EUR	405,745	03/01/2023		(10,894)	-
USD	1,090,461	EUR	1,033,292	03/01/2023		(12,319)	-
USD	667,268	EUR	627,338		Morgan Stanley	(2,259)	-
USD	440,739	EUR	419,208	03/01/2023		(6,661)	-
USD	208,134	EUR	195,542	04/01/2023		(558)	-
USD	92,174	HKD	720,330	03/01/2023	NDC	(118)	-

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts (continued)

150	Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty		Fair Value USD	% of Net Assets
Section	USD	1,816,997	JPY	250,272,785	04/01/2023	HSBC		(79,799)	(0.01
Section   Sect	USD								
Sign   24,967   Sign   2,2466   0,370/12/23   Bist   0,685   Color							Merrill Lynch		
1500   24,967   550   22,866   500   22,866   500									
Gif   1,068,875   USD   3,91,958   0,700/2002   Margin Stanley   (550)   1,050   1,0	USD								
Cite	Class GBP Hedge	d (acc)*							
Sep	CHF	3,618,835							
SEP   1,916,976   USD   1,646,229   USD   2,001,720   USD   2,00									
SEP									
Sept									
SEP									
Common	GBP								
169P   11.4499.447	GBP	116,261,469	USD	140,077,526	03/01/2023	HSBC		(226,555)	(0.02)
HIND	GBP								
150									(0.02)
150									
USD									
1550   3.794_157									
SED   3,265,382   CHF   2,618,835   03/01/2023   State Street   (80,027)   (0.01)									
ISSD	USD								(0.01)
1,284,902   OKK	USD				03/01/2023	Standard Charter	ed		
SECONS   12,981,240   FUR   12,493,661   03,071,0723   SEG   (648)   1555,495   (677,076)   (68P   1,355,495   (677,076)   (68P   1,355,495   (677,077,076)   (68P   1,355,495   (677,077,077,077,077,077,077,077,077,077,	USD	1,284,902	DKK	8,961,528	02/02/2023	State Street		(4,297)	-
1.629,769   GBP	USD								
USD							ed		(0.03)
USD   932,338									-
USD   \$885,810									
USD   8,814,383   JPY   1,214,091,015   04/07/2021 HSBC   (387,110)   (0.04)									
USD   9,121,394   JPY   1.214,091.051   20/20/220 State Street   (117,419)   (0.001)	USD								(0.04)
USD   781,366   SEK   81,93,202   03,01/2023   HSBC   (4,969)   1,957,801	USD	9,121,394	JPY	1,214,091,051	02/02/2023	State Street		(117,419)	(0.01)
SED   317,333   SED   435,721   03/01/2023   HSEC   (7.544)	USD						Merrill Lynch		-
SCD   323,249   SCD   435,721   02/02/2023   HSBC   (1,804)	USD								-
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash equivalents  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Profotal financial assets and iliabilities at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash equivalents  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment schemes (31 December 2021: 0.619%)  Undertaking for collective investment									-
Total financial assets at fair value through profit or loss Total financial lassets at fair value through profit or loss Total financial lassets at fair value through profit or loss Total financial lassets at fair value through profit or loss Total financial lassets at fair value through profit or loss  Cash equivalents  Total Cash equivalents  Undertaking for collective investment schemes (31 December 2021: 0.61%)  Undertaking for collective investment schemes (31 December 2021: 0.61%)  Undertaking for collective investment schemes (31 December 2021: 0.61%)  Undertaking for collective investment schemes (31 December 2021: 0.61%)  Undertaking for collective investment schemes (31 December 2021: 0.61%)  Undertaking for collective investment schemes (31 December 2021: 0.61%)  Undertaking for collective investment schemes (31 December 2021: 0.61%)  Undertaking for collective investments (45 December 2021: 0.61%)  Undertaking for collective investment schemes (31 December 2021: 0.61%)  Undertaking for collective investments (45 December 2021: 0.61%)  Undertaking for collective investments demitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable secu	contracts enter	carmo for small class content, needing perposer							
Total financial liabilities at fair value through profit or loss Cash Cash Cash Cash equivalents  Currency Currency Currency Undertaking for collective investment schemes (31 December 2021: 0.619)  IPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>2</sup> USD 7,870,913 0.71  Total Cash equivalents  Interest and liabilities Interest value attributable to holders of redeemable participating shares  Analysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market  OIC financial derivative instruments  OIC financial derivative instruments  (1,957,801)  Quantity/Nominal Currency Value  Va								Value	% of Net Assets
Total financial liabilities at fair value through profit or loss Cash Cash Cash Cash equivalents  Currency Currency Currency Undertaking for collective investment schemes (31 December 2021: 0.619)  IPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>2</sup> USD 7,870,913 0.71  Total Cash equivalents  Interest and liabilities Interest value attributable to holders of redeemable participating shares  Analysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market  OIC financial derivative instruments  OIC financial derivative instruments  (1,957,801)  Quantity/Nominal Currency Value  Va	Total financial as	sets at fair value through profit or loss						1,103,187,606	99.36
Undertaking for collective investment schemes (31 December 2021: 0.61%)  UPMorgan Liquidity Funds - USD Liquidity LNNAV Fund - Class X (dist.) <sup>2</sup> USD 7,870,913 7,870,913 0.71  Total Cash equivalents  Other assets and liabilities  Net asset value attributable to holders of redeemable participating shares  Analysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments dealt in on another regulated market  OCI (Collective investment schemes  OTC financial derivative instruments  Other assets  OTC financial derivative instruments  OTH of the account of	Total financial lia Cash	bilities at fair value through profit or loss							(0.18) 0.62
Undertaking for collective investment schemes (31 December 2021: 0.61%)  JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>2</sup> Total Cash equivalents  Other assets and liabilities  Net asset value attributable to holders of redeemable participating shares  Analysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments dealt in on another regulated market  OLG Collective investment schemes  OTC financial derivative instruments  Other assets  OTC financial derivative instruments  OTC o	Cash equivalents	5							
JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)²     USD 7,870,913 7,870,913 0.71       Total Cash equivalents     7,870,913 (5,595,326) (0,51)       Other assets and liabilities     5,595,326) (0,51)       Net asset value attributable to holders of redeemable participating shares     1,110,348,350 100.00       Analysis of total assets (Unaudited)     % of Total Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Oldective investment schemes     97.84       OTC financial derivative instruments     9.85       OTC financial derivative instruments     0.48       Other assets     0.33       Other assets     0.35	Undertaking for	collective investment schemes (31 December 2021: 0.6	51%)			Currency	Value		
Total Cash equivalents Other assets and liabilities Other asset value attributable to holders of redeemable participating shares  Analysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Collective investment schemes OTC financial derivative instruments Other assets  Tassets  Transferable securities and money market instruments dealt in on another regulated market Other assets  Transferable securities and money market instruments dealt in on another regulated market Other assets  Transferable securities and money market instruments dealt in on another regulated market Other assets  Transferable securities and money market instruments dealt in on another regulated market Other assets  Transferable securities and money market instruments dealt in on another regulated market Other assets  Transferable securities and money market instruments dealt in on another regulated market Other assets  Transferable securities and money market instruments dealt in on another regulated market Other assets  Transferable securities and money market instruments dealt in on another regulated market Other assets  Transferable securities and money market instruments admitted to official stock exchange listing Other assets  Transferable securities and money market instruments admitted to official stock exchange listing Other assets  Transferable securities and money market instruments admitted to official stock exchange listing Other assets  Transferable securities and money market instruments admitted to official stock exchange listing Other assets  Transferable securities and money market instruments admitted to official stock exchange listing Other assets  Transferable securities and money market instruments admitted to official stock exchange listing Other assets  Transferable securities and money market instruments admitted to official stock exchange listing Other						LISD	7,870.913	7.870.913	0.71
Other assets and liabilities  Net asset value attributable to holders of redeemable participating shares  1,110,348,350 100.00  **Not asset value attributable to holders of redeemable participating shares  1,110,348,350 100.00  **Not assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments dealt in on another regulated market  Collective investment schemes  O.70 OTC financial derivative instruments  Other assets  O.85 OTHER ASSETS						233	.,.,,,,,		
Net asset value attributable to holders of redeemable participating shares  1,110,348,350  8,000  4,000  Analysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments dealt in on another regulated market  Collective investment schemes  OTC financial derivative instruments  OTC financial derivative instruments  OTC financial securities and money market instruments  OTC financial securities and money market instruments dealt in on another regulated market  OTC financial derivative instruments  OTC financial derivative instruments  OTC financial securities and money market instruments dealt in on another regulated market  OTC financial derivative instruments	•								
Manalysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments dealt in on another regulated market  Collective investment schemes  OTC financial derivative instruments  Other assets  **Transferable securities and money market instruments dealt in on another regulated market  O.48  O.70  OTC financial derivative instruments  O.13  Other assets			roc						
Analysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Collective investment schemes OTC financial derivative instruments Other assets  Total Assets  97.84  0.48  0.48  0.13  0.13  0.13  0.13	Net asset value a	actributable to floiders of redeemable participating site	ires					1,110,346,350	100.00
Analysis of total assets (Unaudited)  Transferable securities and money market instruments admitted to official stock exchange listing  Transferable securities and money market instruments dealt in on another regulated market  O.48 Collective investment schemes  O.70 OTC financial derivative instruments  Other assets  Assets									% of
Transferable securities and money market instruments dealt in on another regulated market  Collective investment schemes  OTC financial derivative instruments  Other assets  0.48  0.70  0.70  0.13	Analysis of total	assets (Unaudited)							Total Assets
Collective investment schemes 0.70 OTC financial derivative instruments 0.13 Other assets 0.85									97.84
OTC financial derivative instruments Other assets 0.13 Other assets			er regulated marke	et					0.48
Other assets									0.70
		ivative IIISTI UITIETITS							

 $<sup>^{1}\</sup>mbox{Prior}$  year percentage of net asset value rounds to 0.00%.  $^{2}\mbox{A}$  related party to the Fund.

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities					Obic Co. Ltd.	JPY	400	58,843	0.10
Japan					Odakyu Electric Railway Co. Ltd. Olympus Corp.	JPY JPY	8,800 13,200	114,114 235,298	0.20 0.41
Aeon Co. Ltd. AGC, Inc.	JPY JPY	5,100 8,100	107,570 269,806	0.19 0.47	Omron Corp.	JPY	6,400	310,675	0.54
Ajinomoto Co., Inc.	JPY	16,100	491,865	0.47	Ono Pharmaceutical Co. Ltd.	JPY	10,100	235,995	0.41
Asahi Group Holdings Ltd.	JPY	17,100	533,820	0.92	Oriental Land Co. Ltd. ORIX Corp.	JPY	2,600	377,551 643,843	0.65 1.11
Asahi Kasei Corp.	JPY	36,300	258,993	0.45 0.58	Otsuka Corp.	JPY JPY	40,100 9,400	296,010	0.51
Astellas Pharma, Inc. Bandai Namco Holdings, Inc.	JPY JPY	22,200 400	337,597 25,204	0.58	Otsuka Holdings Co. Ltd.	JPY	1,700	55,466	0.10
Bridgestone Corp.	JPY	18,100	643,504	1.11	Panasonic Holdings Corp.	JPY	22,100	186,002	0.32
Canon, Inc.	JPY	11,800	255,371	0.44	Rakuten Group, Inc. Recruit Holdings Co. Ltd.	JPY JPY	9,600 29,900	43,364 946,548	0.08 1.64
Central Japan Railway Co. Chubu Electric Power Co., Inc.	JPY JPY	4,200 18,300	515,829 188.901	0.89 0.33	Renesas Electronics Corp.	JPY	18,400	165,041	0.29
Chugai Pharmaceutical Co. Ltd.	JPY	5,700	145,497	0.25	Rohm Co. Ltd.	JPY	3,800	274,463	0.48
CyberAgent, Inc.	JPY	10,600	93,833	0.16	SBI Holdings, Inc.	JPY	9,900	188,854 108,619	0.33 0.19
Dai Nippon Printing Co. Ltd.	JPY	3,800	76,320	0.13	Secom Co. Ltd. Sekisui House Ltd.	JPY JPY	1,900 10,800	191,002	0.19
Dai-ichi Life Holdings, Inc. Daiichi Sankyo Co. Ltd.	JPY JPY	2,700 37,800	61,266 1,217,553	0.11 2.11	Seven & i Holdings Co. Ltd.	JPY	16,200	694,926	1.20
Daiwa House Industry Co. Ltd.	JPY	23,900	550,473	0.95	Shimadzu Corp.	JPY	11,400	323,567	0.56
Denso Corp.	JPY	14,200	703,408	1.22	Shimano, Inc. Shin-Etsu Chemical Co. Ltd.	JPY JPY	1,500 9,000	237,826 1,106,711	0.41 1.92
Dentsu Group, Inc. Disco Corp.	JPY JPY	10,900 900	342,419 257,494	0.59 0.45	Shionogi & Co. Ltd.	JPY	7,700	384,343	0.67
East Japan Railway Co.	JPY	10,600	604,130	1.05	Shiseido Co. Ltd.	JPY	7,500	367,824	0.64
Eisai Co. Ltd.	JPY	4,200	277,061	0.48	SMC Corp.	JPY	1,200	505,483	0.88
ENEOS Holdings, Inc.	JPY	72,100	244,805	0.42	SoftBank Corp. SoftBank Group Corp.	JPY JPY	28,600 17,400	322,534 744,292	0.56 1.29
FANUC Corp. Fast Retailing Co. Ltd.	JPY JPY	4,800 1,300	721,573 793,429	1.25 1.37	Sompo Holdings, Inc.	JPY	2,800	124,355	0.22
Fuji Electric Co. Ltd.	JPY	10,300	392,656	0.68	Sony Group Corp.	JPY	26,300	2,000,231	3.46
FUJIFILM Holdings Corp.	JPY	6,200	311,304	0.54	Square Enix Holdings Co. Ltd. SUMCO Corp.	JPY JPY	4,800 7,800	223,002 103,866	0.39 0.18
Fujitsu Ltd.	JPY	5,300	707,564 140,695	1.23 0.24	Sumitomo Corp.	JPY	4,000	66,573	0.18
GMO Payment Gateway, Inc. Hikari Tsushin, Inc.	JPY JPY	1,700 1,200	169,343	0.24	Sumitomo Electric Industries Ltd.	JPY	23,600	269,098	0.47
Hitachi Ltd.	JPY	23,400	1,186,626	2.05	Sumitomo Metal Mining Co. Ltd.	JPY	11,000	389,412	0.67
Honda Motor Co. Ltd.	JPY	40,700	935,256	1.62	Sumitomo Mitsui Financial Group, Inc. Sumitomo Mitsui Trust Holdings, Inc.	JPY JPY	34,200 11,400	1,372,717 396,402	2.38 0.69
Hoya Corp. Ibiden Co. Ltd.	JPY JPY	9,300 3,900	895,498 141,434	1.55 0.24	Sumitomo Realty & Development Co. Ltd.	JPY	4,900	115,904	0.20
Inpex Corp.	JPY	7,600	80,409	0.14	Suntory Beverage & Food Ltd.	JPY	3,800	129,599	0.22
Isuzu Motors Ltd.	JPY	6,500	76,210	0.13	Suzuki Motor Corp.	JPY	8,800	284,852	0.49 0.23
ITOCHU Corp.	JPY	32,900	1,033,790	1.79	Sysmex Corp. T&D Holdings, Inc.	JPY JPY	2,200 33,600	133,356 484,347	0.23
Japan Exchange Group, Inc. Japan Post Holdings Co. Ltd.	JPY JPY	14,300 7,800	205,648 65,589	0.36 0.11	Taisei Corp.	JPY	7,900	254,462	0.44
Japan Real Estate Investment Corp., REIT	JPY	57	249,263	0.43	Takeda Pharmaceutical Co. Ltd.	JPY	28,100	875,509	1.52
Kansai Electric Power Co., Inc. (The)	JPY	7,700	74,639	0.13	TDK Corp. Terumo Corp.	JPY JPY	2,600 22,200	85,422 630,272	0.15 1.09
KAO Corp. KDDI Corp.	JPY JPY	8,900 34,500	354,462 1,041,184	0.61 1.80	Tokio Marine Holdings, Inc.	JPY	46,700	1,000,752	1.73
Keyence Corp.	JPY	4,100	1,597,802	2.77	Tokyo Electric Power Co. Holdings, Inc.	JPY	9,100	32,829	0.06
Kikkoman Corp.	JPY	3,500	184,092	0.32	Tokyo Electron Ltd. Tokyo Gas Co. Ltd.	JPY	3,300	972,405 362,443	1.68 0.63
Kirin Holdings Co. Ltd. Konami Holdings Corp.	JPY	14,500	220,997	0.38 0.30	Toppan, Inc.	JPY JPY	18,500 2,700	39,985	0.03
Kubota Corp.	JPY JPY	3,800 31,200	171,935 429,652	0.30	Toshiba Corp.	JPY	6,500	226,757	0.39
Kyocera Corp.	JPY	7,800	387,325	0.67	TOTO Ltd.	JPY	2,800	95,494	0.17
Kyowa Kirin Co. Ltd.	JPY	15,600	357,058	0.62	Toyota Industries Corp. Toyota Motor Corp.	JPY JPY	7,900 179,100	433,484 2,460,258	0.75 4.26
M3, Inc. Makita Corp.	JPY JPY	3,800 5,200	103,046 121,384	0.18 0.21	Toyota Tsusho Corp.	JPY	3,900	144,390	0.25
Marubeni Corp.	JPY	40,800	468,468	0.81	Unicharm Corp.	JPY	14,000	537,739	0.93
MINEBEA MITSUMI, Inc.	JPY	6,700	100,085	0.17	Yamato Holdings Co. Ltd. Z Holdings Corp.	JPY JPY	23,500 61,700	371,704 155,250	0.64 0.27
MISUMI Group, Inc. Mitsubishi Chemical Holdings Corp.	JPY JPY	15,600	340,387 140,630	0.59 0.24	ZOZO, Inc.	JPY	5,400	133,419	0.23
Mitsubishi Corp.	JPY	27,100 26,200	850,465	1.47		21.1	-		
Mitsubishi Estate Co. Ltd.	JPY	9,100	118,004	0.20	Japan total			57,374,475	99.35
Mitsubishi UFJ Financial Group, Inc.	JPY	285,200	1,921,579	3.33	Total investments in Equities		-	57,374,475	99.35
Mitsui & Co. Ltd. Mitsui Chemicals, Inc.	JPY JPY	14,600 8,900	426,343 200,671	0.74 0.35	·		=	37,374,473	77.55
Mitsui Fudosan Co. Ltd.	JPY	27,400	501,920	0.87					
Mitsui OSK Lines Ltd.	JPY	14,000	349,085	0.60					
Mizuho Financial Group, Inc.	JPY	32,500	457,160	0.79					
MonotaRO Co. Ltd. Murata Manufacturing Co. Ltd.	JPY JPY	11,600 13,000	163,259 649,089	0.28 1.12					
NEC Corp.	JPY	1,300	45,667	0.08					
Nexon Co. Ltd.	JPY	2,700	60,612	0.11					
Nidec Corp. Nihon M&A Center Holdings, Inc.	JPY JPY	8,200 3,600	425,024 44,446	0.74 0.08					
Nintendo Co. Ltd.	JPY	26,800	1,123,632	1.95					
Nippon Building Fund, Inc., REIT	JPY	49	218,364	0.38					
Nippon Express Holdings, Inc.	JPY	4,900	280,011	0.48					
Nippon Paint Holdings Co. Ltd. Nippon Prologis REIT, Inc.	JPY JPY	11,000 108	86,619 252,514	0.15 0.44					
Nippon Steel Corp.	JPY	10,100	175,446	0.30					
Nippon Telegraph & Telephone Corp.	JPY	32,900	938,041	1.62					
Nissan Motor Co. Ltd.	JPY	14,500	45,947	0.08					
Nissin Foods Holdings Co. Ltd. Nitori Holdings Co. Ltd.	JPY JPY	1,400 3,800	110,561 491,038	0.19 0.85					
Nitto Denko Corp.	JPY	6,600	382,659	0.66					
Nomura Holdings, Inc.	JPY	19,500	72,210	0.13					
Nomura Research Institute Ltd. NTT Data Corp.	JPY JPY	12,600 4,000	297,465 58,570	0.52 0.10					
Obayashi Corp.	JPY	26,500	200,440	0.10					
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Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class CHF Hedged	d (acc)*						
CHF	5,537	JPY	788,007	02/02/2023	Barclays	9	-
JPY	383,341	CHF	2,685	02/02/2023	Bank of America Merrill Lynch	6	-
JPY	68,581,873	CHF	474,773	04/01/2023	Morgan Stanley	6,619	0.01
JPY	1,154,737	CHF	7,898	04/01/2023	Morgan Stanley	215	-
JPY	681,529	CHF	4,673	04/01/2023	Morgan Stanley	115	-
JPY	988,340	CHF	6,826	04/01/2023	Morgan Stanley	112	-
JPY	619,897	CHF	4,265	04/01/2023	Morgan Stanley	89	-
JPY	411,997	CHF	2,857	04/01/2023	Morgan Stanley	35	-
JPY	555,775	CHF	3,890	04/01/2023	Morgan Stanley	7	-
JPY	552,777	CHF	3,866	02/02/2023	Morgan Stanley	14	-
JPY	446,733	CHF	3,060	04/01/2023	State Street	78	-
JPY	374,029	USD	2,716	04/01/2023	Morgan Stanley	119	-
JPY	361,471	USD	2,716	02/02/2023	Morgan Stanley	35	-
Class EUR Hedged	d (acc)*						
EUR	5,578	JPY	783,276	02/02/2023	Morgan Stanley	5	-
JPY	1,147,063	EUR	7,941	04/01/2023	Bank of America Merrill Lynch	219	-
JPY	435,170	EUR	3,043	04/01/2023	Bank of America Merrill Lynch	50	-
JPY	521,556	EUR	3,672	04/01/2023	Bank of America Merrill Lynch	34	-
JPY	702,100	EUR	4,909	04/01/2023	RBC	82	-
JPY	68,208,612	EUR	479,835	04/01/2023	State Street	4,843	0.01
JPY	481,365	EUR	3,350	04/01/2023	State Street	73	-
JPY	326,095	USD	2,368	04/01/2023	Morgan Stanley	104	-
JPY	315,146	USD	2,368	02/02/2023	Morgan Stanley	31	
Total unrealised	gain on Forward Currency Contracts					12,894	0.02
Class CHF Hedged	1(25)*						
CHF	2,612	JPY	384,717	04/01/2023	Bank of America Merrill Lynch	(92)	_
CHF	7,297	JPY	1.084.383		Bank of America Merrill Lynch	(332)	
CHF	5.547	JPY	814.765		Morgan Stanley	(179)	
CHF	474,773	JPY	68,529,985		Morgan Stanley	(6,583)	(0.01)
CHF	494,937	JPY	72,065,501	04/01/2023		(11,227)	(0.01)
CHF	6,143	JPY	902,295		Standard Chartered	(199)	(0.02)
JPY	1,179,346	CHF	8,295		Bank of America Merrill Lynch	(28)	_
USD	2,716	JPY	362,835		Morgan Stanley	(34)	_
Class EUR Hedged		31 1	302,033	04/01/2023	worgan stamey	(54)	
EUR	4,368	JPY	629,976	04/01/2023	Bank of America Merrill Lynch	(113)	_
EUR	5,247	JPY	764.076		Bank of America Merrill Lynch	(191)	_
EUR	5,058	IPY	730.850	04/01/2023		(141)	_
EUR	145,616	JPY	20,944,172	. , . ,	Goldman Sachs	(3,325)	(0.01)
EUR	352.139	JPY	50,376,116	04/01/2023		(5,976)	(0.01)
EUR	2,643	JPY	383,014		State Street	(83)	(0.01)
EUR	479.835	JPY	68,090,673		State Street	(4,959)	(0.01)
JPY	1,172,387	EUR	8,387		Bank of America Merrill Lynch	(65)	(0.01)
JPY	483,434	EUR	3,440	02/02/2023		(1)	_
JPY	382,746	EUR	2,733	02/02/2023		(10)	_
JPY	553.638	EUR	3,934		Morgan Stanley	(3)	_
USD	2,368	JPY	316,335		Morgan Stanley	(30)	
Total unrealised	loss on Forward Currency Contracts					(33,571)	(0.06)

 $<sup>\</sup>ensuremath{^{*}\text{Contracts}}$  entered into for share class currency hedging purpose.

Schedule of Investments (continued)

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash			57,387,369 (33,571) 357,672	99.37 (0.06) 0.62
Cash equivalents  Undertaking for collective investment schemes	Currency	Quantity/ Nominal Value		
JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>1</sup>	USD	191,733	191,733	0.33
Total Cash equivalents			191,733	0.33
Other assets and liabilities			(149,264)	(0.26)
Net asset value attributable to holders of redeemable participating shares		:	57,753,939	100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Collective investment schemes OTC financial derivative instruments Other assets  Total Assets  1 A related party to the Fund.				98.90 0.33 0.02 0.75 100.00

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Bonds					Supranational				
Corporate Debt Securities					Asian Development Bank 2.60% 12/04/2023	CNY	8,000,000	1,149,425	2.32
Australia Commonwealth Bank of Australia 3.92%					European Investment Bank 2.70% 22/04/2024	CNH	6,000,000	855,122	1.73
21/04/2025 National Australia Bank Ltd. 4.75%	CNY	2,000,000	286,051	0.58	Supranational total			2,004,547	4.05
06/06/2023 National Australia Bank Ltd. 3.62%	CNY	4,000,000	579,442	1.17	Total investments in Corporate Debt Secu	ırities			
01/04/2025 Westpac Banking Corp. 4.77%	CNY	3,000,000	432,439	0.87	Total investments in corporate best seed	arreies	:	34,168,638	69.01
30/05/2023	CNY	4,000,000	576,837 431,684	1.17 0.87	Government Debt Securities				
Westpac Banking Corp. 4.45% 13/07/2023	CNY	3,000,000			China Agricultural Development Bank of China 3.06% 05/08/2023	CNIV	10 000 000	1 444 200	2.92
Australia total Canada		-	2,306,453	4.66	Agricultural Development Bank of China		10,000,000	1,444,299	
Bank of Montreal 3.65% 28/04/2023	CNH	9,000,000	1,296,826	2.62	2.78% 21/07/2024 China Development Bank 3.03%		10,000,000	1,445,407	2.92
Bank of Nova Scotia (The) 3.42% 22/04/2023	CNH	7,000,000	1,009,015	2.04	27/11/2023 Export-Import Bank of China (The) 2.63%	CNH	8,000,000	1,152,857	2.33
Canadian Imperial Bank of Commerce 0.00% 06/07/2023	CNY	5,000,000	705,385	1.42	11/10/2023 Export-Import Bank of China (The) 3.28%	CNY	10,000,000	1,440,521	2.91
Canada total		-	3,011,226	6.08	11/02/2024 PBOC International Note 2.70%	CNY	10,000,000	1,451,615	2.93
Cayman Islands					23/02/2023	CNY	10,000,000	1,437,868	2.90
QNB Finance Ltd. 3.67% 04/11/2023	CNY	5,000,000	716,031	1.45	China total			8,372,567	16.91
Cayman Islands total			716,031	1.45	Hong Kong Hong Kong Mortgage Corp. Ltd. (The)				
China Agricultural Bank of China Ltd. 0.00%					2.55% 10/02/2023	CNH	7,000,000	1,008,128	2.04
12/05/2023 Australia and New Zealand Bank (China)	CNY	10,000,000	1,426,721	2.88	Hong Kong total			1,008,128	2.04
Co. Ltd. 0.00% 21/03/2023  Bank of Communications Co. Ltd. 0.00%	CNY	10,000,000	1,430,707	2.89	South Korea Export-Import Bank of Korea 2.90%				
02/08/2023 Bank of East Asia Ltd. (The) 0.00%	CNY	10,000,000	1,417,368	2.86	02/03/2023 Export-Import Bank of Korea 4.14%	CNY	2,000,000	287,753	0.58
24/03/2023 China Baowu Steel Group Corp. Ltd. 2.37%		10,000,000	1,430,393	2.89	04/09/2023 Industrial Bank of Korea 3.63%	CNH	4,000,000	579,966	1.17
22/05/2023 China Construction Bank Corp. 2.50%	CNY	10,000,000	1,435,095	2.90	02/05/2023	CNY	5,000,000	719,383	1.45
11/01/2023	CNY	10,000,000	1,438,361	2.91	Korea Development Bank (The) 3.20% 16/06/2023	CNY	2,000,000	288,008	0.58
China Post Group Co. Ltd. 1.66% 03/02/2023	CNY	10,000,000	1,433,822	2.90	Korea Development Bank (The) 3.57% 11/04/2024	CNY	5,000,000	722,339	1.46
DBS Bank China Ltd. 0.00% 18/01/2023 Industrial & Commercial Bank of China		10,000,000	1,436,676	2.90	South Korea total			2,597,449	5.24
Ltd. 2.80% 07/07/2023 Sinochem Corp. 3.04% 19/07/2023	CNY CNY	10,000,000 10,000,000	1,439,001 1,440,631	2.91 2.91	Total investments in Government Debt Se	ecurities		11,978,144	24.19
State Grid Corp. of China 2.00% 08/06/2023	CNY	10,000,000	1,433,345	2.89			:		
State Power Investment Corp. Ltd. 3.00% 16/03/2023		10,000,000	1,436,070	2.90	Total Bonds		:	46,146,782	93.20
Sumitomo Mitsui Banking Corp. China Ltd. 0.00% 17/01/2023		10,000,000	1,436,680	2.90					
United Overseas Bank China Ltd. 0.00% 27/02/2023		10,000,000	1,432,940	2.89					
Zhejiang Provincial Energy Group Co. Ltd. 4.69% 14/09/2023			1,454,950	2.94					
China total	CNY	10,000,000							
France			21,522,760	43.47					
Credit Agricole Corporate & Investment Bank SA 4.72% 29/05/2023	CNH	5,000,000	724,536	1.46					
France total			724,536	1.46					
Germany Kreditanstalt fuer Wiederaufbau 2.39% 09/02/2023	CNY	8,000,000	1,149,215	2.32					
Germany total		-	1,149,215	2.32					
Hong Kong HKCG Finance Ltd. 3.00% 30/10/2023	CNH	3,000,000	431,219	0.87					
Hong Kong total		-	431,219	0.87					
Netherlands			420.000						
BMW Finance NV 2.80% 11/08/2023 Cooperatieve Rabobank UA 3.33%	CNH	3,000,000	430,026	0.87					
15/03/2023	CNH	8,000,000	1,152,792	2.33					
Netherlands total			1,582,818	3.20					
South Korea KEB Hana Bank 3.10% 01/04/2023	CNY	5,000,000	719,833	1.45					
South Korea total		-	719,833	1.45					

# JPMorgan ETFs (Ireland) ICAV - RMB Ultra-Short Income UCITS ETF

Schedule of Investments (continued)

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Cash			46,146,782 70,633	93.20 0.14
Cash equivalents  Time Deposits	Currency	Quantity/ Nominal Value		
ING Bank NV, 0.25%, 03/01/2023	CNY	19,000,000	2,733,144	5.52
Total Cash equivalents			2,733,144	5.52
Other assets and liabilities			561,144	1.14
Net asset value attributable to holders of redeemable participating shares			49,511,703	100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments other than those admitted to an official stock exchange listing or dealt in on ano Time deposits Other assets Total Assets	ther regulated m	arket		52.91 40.21 5.52 1.36 100.00

Investments	Currency	Quantity/ Nominal Value	Fair Value GBP	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value GBP	% of Net Assets
Equities					JD Sports Fashion plc	GBP	26,030	32,837	0.29
Georgia	CDD	221	E 017	0.05	JET2 plc Johnson Matthey plc	GBP GBP	1,715 889	16,437 18,909	0.14 0.17
TBC Bank Group plc	GBP	221 _	5,017	0.05	Judges Scientific plc	GBP	139	11,732	0.10
Georgia total			5,017	0.05	Lancashire Holdings Ltd. Land Securities Group plc, REIT	GBP GBP	4,097 5,858	26,630 36,402	0.23 0.32
Ireland					Legal & General Group plc	GBP	40,840	101,896	0.89
CRH plc Experian plc	GBP GBP	4,527 4,825	149,346 135,727	1.31 1.19	Lloyds Banking Group plc	GBP	369,294	167,696	1.47
Flutter Entertainment plc	GBP	1,017	114,819	1.00	London Stock Exchange Group plc M&G plc	GBP GBP	1,973 28,064	140,793 52,718	1.23 0.46
Grafton Group plc	GBP	3,220	25,393	0.22	Macfarlane Group plc	GBP	9,952	10,350	0.09
Smurfit Kappa Group plc	GBP	1,631	50,088	0.44	Man Group plc Mitie Group plc	GBP GBP	20,899 50,647	44,661 37,783	0.39 0.33
Ireland total			475,373	4.16	Mondi plc	GBP	2,312	32,588	0.29
Switzerland					Morgan Advanced Materials plc National Grid plc	GBP GBP	12,294 18,398	38,665 183,502	0.34 1.61
Coca-Cola HBC AG Glencore plc	GBP GBP	2,570 70,276	50,706 388,204	0.45 3.40	NatWest Group plc	GBP	33,763	89,539	0.78
Wizz Air Holdings plc	GBP	437	8,323	0.07	Next Fifteen Communications Group plc	GBP	1,132	11,207	0.10
Switzerland total		_	447,233	3.92	Next plc NIOX Group plc	GBP GBP	608 33,884	35,300 12,368	0.31 0.11
		_	447,233	3.92	OSB Group plc	GBP	7,505	36,009	0.32
United Kingdom 3i Group plc	GBP	7,266	97,473	0.85	Pagegroup plc Pearson plc	GBP GBP	5,455 6,669	25,158 62,635	0.22 0.55
4imprint Group plc	GBP	593	25,351	0.22	Pets at Home Group plc	GBP	5,737	16,270	0.55
accesso Technology Group plc Alpha FX Group plc	GBP	1,825	15,111 10,489	0.13 0.09	Phoenix Group Holdings plc	GBP	5,294	32,219	0.28
Anglo American plc	GBP GBP	567 6,920	223,966	1.96	Polar Capital Holdings plc Premier Foods plc	GBP GBP	2,228 34,410	10,628 37,369	0.09
Ashtead Group plc	GBP	2,866	135,275	1.18	Prudential plc	GBP	14,057	158,493	1.39
Ashtead Technology Holdings plc AstraZeneca plc	GBP GBP	3,724 7,509	11,731 842,360	0.10 7.38	QinetiQ Group plc	GBP	12,342	44,061	0.39
Auto Trader Group plc	GBP	1,090	5,620	0.05	Quixant plc Reckitt Benckiser Group plc	GBP GBP	7,089 4,017	11,342 231,138	0.10 2.02
AVEVA Group plc	GBP	726	23,326	0.20	Redrow plc	GBP	4,649	21,097	0.19
Aviva plc BAE Systems plc	GBP GBP	15,589 19,523	69,028 167,117	0.60 1.46	RELX plc	GBP	10,842	248,065	2.17
Balfour Beatty plc	GBP	12,906	43,571	0.38	Rentokil Initial plc Rightmove plc	GBP GBP	5,837 4,026	29,652 20,589	0.26 0.18
Barclays plc	GBP	92,628	146,834	1.29	Rio Tinto plc	GBP	5,117	296,684	2.60
Barratt Developments plc Beazley plc	GBP GBP	4,609 8,581	18,288 58,308	0.16 0.51	Rolls-Royce Holdings plc RS Group plc	GBP GBP	3,181 5,743	2,965 51,429	0.03 0.45
Bellway plc	GBP	2,274	43,377	0.38	Safestore Holdings plc, REIT	GBP	2,695	25,468	0.22
Berkeley Group Holdings plc BP plc	GBP GBP	757 95,266	28,562 452,418	0.25 3.96	Sage Group plc (The)	GBP	2,693	20,079	0.18
British American Tobacco plc	GBP	11,191	367,233	3.22	Savills plc Segro plc, REIT	GBP GBP	2,208 9,717	18,227 74,199	0.16 0.65
British Land Co. plc (The), REIT	GBP	4,973	19,648	0.17	Serco Group plc	GBP	24,381	37,888	0.33
BT Group plc 'A' Bunzl plc	GBP GBP	20,054 1,070	22,470 29,521	0.20 0.26	Serica Energy plc Severn Trent plc	GBP	2,922	8,328 37,856	0.07 0.33
Burberry Group plc	GBP	2,861	58,078	0.51	Shell plc	GBP GBP	1,428 36,100	839,686	7.35
Bytes Technology Group plc Calnex Solutions plc	GBP GBP	4,999 6,655	19,346 11,114	0.17 0.10	Smith & Nephew plc	GBP	2,360	26,184	0.23
Central Asia Metals plc	GBP	7,094	17,593	0.15	Smiths Group plc Softcat plc	GBP GBP	1,057 3,185	16,896 37,710	0.15 0.33
Centrica plc	GBP	69,102	66,697	0.58	Solid State plc	GBP	1,018	14,354	0.13
Cerillion plc Chemring Group plc	GBP GBP	998 3,666	12,076 10,906	0.11 0.10	Spirax-Sarco Engineering plc	GBP	540	57,321	0.50
Compass Group plc	GBP	9,520	182,546	1.60	Spire Healthcare Group plc Spirent Communications plc	GBP GBP	12,485 10,433	28,466 27,147	0.25 0.24
Cranswick plc Croda International plc	GBP	823	25,332	0.22 0.18	SSE plc	GBP	6,500	111,280	0.97
CVS Group plc	GBP GBP	318 688	21,001 13,320	0.18	SSP Group plc St James's Place plc	GBP GBP	9,762 2,565	22,355 28,087	0.20 0.25
Derwent London plc, REIT	GBP	1,407	33,318	0.29	Standard Chartered plc	GBP	12,976	80,763	0.23
Diageo plc Drax Group plc	GBP GBP	11,367 4,691	414,895 32,978	3.63 0.29	Tate & Lyle plc	GBP	4,654	33,099	0.29
DS Smith plc	GBP	14,011	45,045	0.39	Telecom Plus plc Tesco plc	GBP GBP	1,804 51,405	39,598 115,250	0.35 1.01
Dunelm Group plc	GBP	3,301	32,317	0.28	Unilever plc	GBP	11,949	499,707	4.38
Elementis plc Elixirr International plc	GBP GBP	6,014 2,252	7,241 11,485	0.06 0.10	UNITE Group plc (The), REIT VIDENDUM plc	GBP GBP	4,975 800	45,272 8,624	0.40
Entain plc	GBP	4,058	53,626	0.47	Vistry Group plc	GBP	2,513	15,719	0.14
Equals Group plc Ergomed plc	GBP GBP	13,032 838	11,664 10,659	0.10 0.09	Vodafone Group plc	GBP	121,496	102,348	0.90
Frasers Group plc	GBP	1,481	10,515	0.09	Volex plc Watches of Switzerland Group plc	GBP GBP	4,405 3,134	11,035 25,714	0.10 0.23
FRP Advisory Group plc	GBP	6,798	10,809	0.09	Weir Group plc (The)	GBP	1,698	28,340	0.25
Future plc Greggs plc	GBP GBP	1,253 1,541	15,876 36,152	0.14 0.32	Wilmington plc	GBP	4,347	13,476	0.12
GSK plc	GBP	20,988	301,723	2.64	Wincanton plc WPP plc	GBP GBP	3,373 884	11,367 7,251	0.10 0.06
H&T Group plc Haleon plc	GBP	2,533	12,158 58,409	0.11 0.51	Zoo Digital Group plc	GBP	6,176	10,993	0.10
Halma plc	GBP GBP	17,843 304	6,001	0.05	United Kingdom total		-	10,252,534	89.77
Hargreaves Services plc	GBP	3,260	12,877	0.11	-				
Hollywood Bowl Group plc Howden Joinery Group plc	GBP GBP	5,249 2,677	13,070 15,034	0.11 0.13	Total investments in Equities			11,180,157	97.90
HSBC Holdings plc	GBP	99,026	510,677	4.47	Closed-End Investment Funds				
Hunting plc	GBP	3,526	11,742	0.10	Cioseu-Enu investinent Funus				
IG Group Holdings plc IMI plc	GBP GBP	2,726 3,567	21,317 45,943	0.19 0.40	United Kingdom		4.5.0	22.07.	0.00
Imperial Brands plc	GBP	5,153	106,719	0.93	Scottish Mortgage Investment Trust plc	GBP	4,562	32,974	0.29
Inchcape plc Indivior plc	GBP	4,787	39,253 28,910	0.34 0.25	United Kingdom total			32,974	0.29
Informa plc	GBP GBP	1,561 3,947	28,910	0.25	Total investments in Closed-End Investm	ent Funds	-	22.074	0.30
InterContinental Hotels Group plc Intermediate Capital Group plc	GBP GBP	1,255 3,932	59,537 45,139	0.52 0.40			:	32,974	0.29

# JPMorgan ETFs (Ireland) ICAV - UK Equity Core UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Financial Futures Contracts

Security Description	No. of Contracts	Currency	Underlying Exposure GBP	Counterparty	Fair Value GBP	% of Net Assets
United Kingdom FTSE 100 Index, 17/03/2023	2	GBP	149,125	Citibank NA	195	
United Kingdom total					195	-
Total unrealised gain on Financial Futures Contracts					195	

			Fair Value GBP	% of Net Assets
Total financial assets at fair value through profit or loss Cash and margin cash			11,213,326 426,869	98.19 3.74
Cash equivalents	Currency	Quantity/ Nominal Value	.20,007	3.7 .
Undertaking for collective investment schemes  JPMorgan Liquidity Funds - GBP Liquidity LVNAV Fund - Class X (dist.) <sup>1</sup>	GBP	60,979	60,979	0.53
Total Cash equivalents Other assets and liabilities			(280,668)	(2.46)
Net asset value attributable to holders of redeemable participating shares			11,420,506	100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Collective investment schemes Financial derivative instruments dealt in on a regulated market Other assets				95.56 0.52 - 3.92
Total Assets				100.00

<sup>&</sup>lt;sup>1</sup>A related party to the Fund.

Schedule of Investments

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Equities (31 December 2021: 99.79%)					Centene Corp.	USD	63,709	5,224,775	0.26
Bermuda (31 December 2021: 0.01%) RenaissanceRe Holdings Ltd.	USD	6,756	1,244,658	0.06	CenterPoint Energy, Inc. CF Industries Holdings, Inc.	USD USD	48,370 13,031	1,450,616 1,110,241	0.07 0.06
Bermuda total	435	-		0.06	CH Robinson Worldwide, Inc. Charles Schwab Corp. (The)	USD USD	4,361 73,483	399,293 6,118,195	0.02 0.31
Canada (31 December 2021: 0.13%)		-	1,244,658	0.06	Charter Communications, Inc. 'A' Cheniere Energy, Inc.	USD USD	23,600	8,002,760 797,937	0.40 0.04
Canadian National Railway Co.	USD	4,048	481,226	0.02	Chevron Corp.	USD	5,321 111,834	20,073,085	1.00
Magna International, Inc.	USD	35,523 –	1,995,682	0.10	Chipotle Mexican Grill, Inc. 'A' Cigna Corp.	USD USD	3,378 15,639	4,686,941 5,181,826	0.23 0.26
Canada total		_	2,476,908	0.12	Cintas Corp. Cisco Systems, Inc.	USD USD	885 151,702	399,684 7,227,083	0.02 0.36
Ireland (31 December 2021: 2.28%) Accenture plc 'A'	USD	71,089	18,969,389	0.95	Citigroup, Inc.	USD	187,914	8,499,350	0.43
Aptiv plc Medtronic plc	USD USD	9,624 85,857	896,283 6,672,806	0.05 0.33	CME Group, Inc. 'A' CMS Energy Corp.	USD USD	32,996 61,584	5,548,607 3,900,115	0.28 0.19
Trane Technologies plc	USD	66,577	11,190,928	0.56	Coca-Cola Co. (The) Cognizant Technology Solutions Corp.	USD	381,075	24,240,181	1.21
Ireland total			37,729,406	1.89	'A' Colgate-Palmolive Co.	USD USD	19,340 139,863	1,106,055 11,019,806	0.06 0.55
Netherlands (31 December 2021: 0.42%, NXP Semiconductors NV	) USD	70,919	11,207,329	0.56	Comcast Corp. 'A'	USD	404,701	14,152,394	0.71
Netherlands total	usp	70,919			ConocoPhillips Consolidated Edison, Inc.	USD USD	151,787 6,044	17,910,866 576,054	0.90 0.03
	(20/)	_	11,207,329	0.56	Constellation Brands, Inc. 'A' Constellation Energy Corp.	USD USD	17,251 6,812	3,997,919 587,263	0.20 0.03
United Kingdom (31 December 2021: 0.6 Amcor plc	USD	9,212	109,715	0.01	Corteva, Inc. Costco Wholesale Corp.	USD	38,111	2,240,165 12,494,861	0.11 0.62
Linde plc	USD	36,312	11,844,248	0.59	Coterra Energy, Inc.	USD USD	27,371 121,084	2,975,034	0.15
United Kingdom total		_	11,953,963	0.60	Crown Castle, Inc., REIT CSX Corp.	USD USD	8,594 170,310	1,165,690 5,276,204	0.06 0.26
United States (31 December 2021: 95.95 3M Co.	%) USD	31,659	3,796,547	0.19	Cummins, Inc. CVS Health Corp.	USD USD	16,705 11,245	4,047,454 1,047,922	0.20 0.05
Abbott Laboratories	USD	108,014	11,858,857	0.59	Danaher Corp.	USD	40,487	10,746,060	0.54
AbbVie, Inc. Activision Blizzard, Inc.	USD USD	166,968 18,845	26,983,698 1,442,585	1.35 0.07	Deere & Co. Delta Air Lines, Inc.	USD USD	41,014 40,870	17,585,163 1,342,988	0.88 0.07
Adobe, Inc. Advanced Micro Devices, Inc.	USD USD	29,205 137,948	9,828,359 8,934,892	0.49 0.45	DENTSPLY SIRONA, Inc. Dexcom, Inc.	USD USD	13,217 19,333	420,829 2,189,269	0.02 0.11
Affirm Holdings, Inc. 'A' Aflac, Inc.	USD	6,532	63,164 1,501,819	0.00	Diamondback Energy, Inc.	USD	60,423	8,264,658	0.41
Air Products & Chemicals, Inc.	USD USD	20,876 14,104	4,347,699	0.22	Discover Financial Services DocuSign, Inc. 'A'	USD USD	3,930 21,304	384,472 1,180,668	0.02 0.06
Akamai Technologies, Inc. Alaska Air Group, Inc.	USD USD	9,945 32,342	838,363 1,388,765	0.04 0.07	Dollar General Corp. Domino's Pizza, Inc.	USD USD	3,344 2,226	823,460 771,086	0.04
Alphabet, Inc. 'A' Alphabet, Inc. 'C'	USD USD	420,074 331,713	37,063,129 29,432,894	1.85 1.47	Dover Corp.	USD	25,781	3,491,005	0.17
Amazon.com, Inc.	USD	575,863	48,372,492	2.42	Dow, Inc. DTE Energy Co.	USD USD	10,206 11,950	514,280 1,404,483	0.03 0.07
Ameren Corp. American Express Co.	USD USD	69,875 97,604	6,213,285 14,420,991	0.31 0.72	DuPont de Nemours, Inc. Eastman Chemical Co.	USD USD	7,530 34,726	516,784 2,828,085	0.03 0.14
American International Group, Inc. American Tower Corp., REIT	USD USD	5,379 15,436	340,168 3,270,271	0.02 0.16	Ecolab, Inc.	USD	12,775	1,859,529	0.09 0.13
American Water Works Co., Inc.	USD	4,203	640,621	0.03	Edison International Edwards Lifesciences Corp.	USD USD	42,388 35,256	2,696,725 2,630,450	0.13
Ameriprise Financial, Inc. AMETEK, Inc.	USD USD	14,388 13,252	4,479,992 1,851,569	0.22 0.09	Electronic Arts, Inc. Eli Lilly & Co.	USD USD	14,986 69,483	1,830,989 25,419,661	0.09 1.27
Amgen, Inc. Analog Devices, Inc.	USD USD	2,592 79,027	680,763 12,962,799	0.03 0.65	Emerson Electric Co. Enphase Energy, Inc.	USD USD	30,948 7,866	2,972,865 2,084,175	0.15 0.10
Elevance Health, Inc.	USD	34,895	17,900,088	0.90	EOG Resources, Inc.	USD	104,199	13,495,854	0.67
Aon plc 'A' Apple, Inc.	USD USD	12,618 923,434	3,787,167 119,981,780	0.19 6.00	Equinix, Inc., REIT Equity LifeStyle Properties, Inc., REIT	USD USD	5,524 43,024	3,618,386 2,779,350	0.18 0.14
Applied Materials, Inc. Archer-Daniels-Midland Co.	USD USD	66,247 34,558	6,451,133 3,208,710	0.32 0.16	Estee Lauder Cos., Inc. (The) 'A' Eversource Energy	USD USD	7,062 24,252	1,752,153 2,033,288	0.09 0.10
Autodesk, Inc. Automatic Data Processing, Inc.	USD USD	13,404 11,240	2,504,805 2,684,786	0.13 0.13	Expedia Group, Inc.	USD	41,121	3,602,200	0.18
AutoNation, Inc.	USD	10,611	1,138,560	0.06	Expeditors International of Washington, Inc.	USD	3,002	311,968	0.02
AutoZone, Inc. AvalonBay Communities, Inc., REIT	USD USD	3,343 1,258	8,244,440 203,192	0.41 0.01	Exxon Mobil Corp. FactSet Research Systems, Inc.	USD USD	328,465 2,306	36,229,689 925,190	1.81 0.05
Avery Dennison Corp. Baker Hughes Co. 'A'	USD USD	28,436 18,218	5,146,916 537,978	0.26 0.03	FedEx Corp. Fidelity National Information Services,	USD	11,778	2,039,950	0.10
Ball Corp.	USD	35,327	1,806,623	0.09	Inc. Fifth Third Bancorp	USD	20,976	1,423,222	0.07 0.19
Bank of America Corp. Bank of New York Mellon Corp. (The)	USD USD	334,462 47,710	11,077,381 2,171,759	0.55 0.11	FleetCor Technologies, Inc.	USD USD	117,737 15,147	3,862,951 2,782,201	0.14
Baxter International, Inc. Becton Dickinson & Co.	USD USD	91,908 14,855	4,684,551 3,777,626	0.23 0.19	Ford Motor Co. Fortinet, Inc.	USD USD	87,680 24,649	1,019,718 1,205,090	0.05 0.06
Berkshire Hathaway, Inc. 'B'	USD	120,295	37,159,125	1.86	Fortive Corp. Fox Corp. 'A'	USD	12,243	786,613 594,553	0.04 0.03
Best Buy Co., Inc. Biogen, Inc.	USD USD	66,477 19,408	5,332,120 5,374,463	0.27 0.27	Freeport-McMoRan, Inc.	USD USD	19,577 70,421	2,675,998	0.13
Block, Inc. 'A' Booking Holdings, Inc.	USD USD	4,398 3,941	276,370 7,942,218	0.01	Gap, Inc. (The) Gen Digital, Inc.	USD USD	11,964 4,851	134,954 103,957	0.01 0.01
Booz Allen Hamilton Holding Corp. 'A' Boston Properties, Inc., REIT	USD USD	12,842	1,342,246 595,650	0.07	General Electric Co. General Mills, Inc.	USD USD	6,786 36,897	568,599 3,093,813	0.03 0.15
Boston Scientific Corp.	USD	8,814 147,555	6,827,370	0.34	Genuine Parts Co.	USD	4,778	829,031	0.04
Bristol-Myers Squibb Co. Broadcom, Inc.	USD USD	264,234 8,765	19,011,636 4,900,774	0.95 0.25	Gilead Sciences, Inc. Globe Life, Inc.	USD USD	49,906 5,615	4,284,430 676,888	0.21 0.03
Brown-Forman Corp. 'B' Burlington Stores, Inc.	USD USD	46,864 1,543	3,078,027 312,859	0.15 0.02	Goldman Sachs Group, Inc. (The) Hartford Financial Services Group, Inc.	USD	15,079	5,177,827	0.26
Cadence Design Systems, Inc.	USD	3,915	628,906	0.03	(The)	USD	20,044	1,519,937	0.08
Camden Property Trust, REIT Capital One Financial Corp.	USD USD	33,948 40,166	3,798,102 3,733,831	0.19 0.19	Hasbro, Inc. Hershey Co. (The)	USD USD	26,024 9,087	1,587,724 2,104,277	0.08 0.11
Carrier Global Corp. Caterpillar, Inc.	USD USD	52,262 11,593	2,155,807 2,777,219	0.11 0.14	Hewlett Packard Enterprise Co. Hilton Worldwide Holdings, Inc.	USD USD	77,048 57,726	1,229,686 7,294,257	0.06 0.36
CBRE Group, Inc. 'A'	USD	5,612	431,899	0.02	Hologic, Inc.	USD	15,286	1,143,546	0.06

Schedule of Investments (continued)

Investments	Currency	Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Home Depot, Inc. (The)	USD	43,372	13,699,480	0.69	Principal Financial Group, Inc.	USD	9,529	799,674	0.04
Hormel Foods Corp. Host Hotels & Resorts, Inc., REIT	USD USD	17,407 206,421	792,889 3,313,057	0.04 0.17	Procter & Gamble Co. (The) Progressive Corp. (The)	USD USD	152,793 109,939	23,157,307 14,260,188	1.16 0.71
HP, Inc.	USD	118,203	3,176,115	0.16	Prologis, Inc., REIT	USD	114,253	12,879,741	0.64
Hubbell, Inc. 'B'	USD	1,888	443,076	0.02	Prudential Financial, Inc.	USD	90,400	8,991,184	0.45
Humana, Inc.	USD	7,746	3,967,424	0.20	PTC, Inc.	USD	6,451	774,378	0.04
Huntington Bancshares, Inc. IDEX Corp.	USD USD	27,100 4,645	382,110 1,060,593	0.02 0.05	Public Service Enterprise Group, Inc. Public Storage, REIT	USD USD	128,887 5,600	7,896,906 1,569,064	0.39 0.08
IDEXX Laboratories, Inc.	USD	4,686	1,911,701	0.10	PulteGroup, Inc.	USD	24,681	1,123,726	0.06
Illinois Tool Works, Inc.	USD	18,275	4,025,982	0.20	Qorvo, Inc.	USD	1,993	180,646	0.01
Illumina, Inc. Ingersoll Rand, Inc.	USD USD	6,335 55,389	1,280,937 2,894,075	0.06 0.14	QUALCOMM, Inc. Quanta Services, Inc.	USD USD	39,438 8,847	4,335,814 1,260,697	0.22
Intel Corp.	USD	36,963	976,932	0.14	Ralph Lauren Corp. 'A'	USD	3,167	334,657	0.00
Intercontinental Exchange, Inc.	USD	78,200	8,022,538	0.40	Raymond James Financial, Inc.	USD	12,678	1,354,644	0.07
International Business Machines Corp.		44,617	6,286,089	0.31	Realty Income Corp., REIT	USD	21,581	1,368,883	0.07
International Flavors & Fragrances, In Interpublic Group of Cos., Inc. (The)	c. USD USD	3,284 64,750	344,295 2,156,822	0.02 0.11	Regeneron Pharmaceuticals, Inc. Regions Financial Corp.	USD USD	16,415 57,532	11,843,258 1,240,390	0.59 0.06
Intuit, Inc.	USD	30,581	11,902,737	0.60	Republic Services, Inc. 'A'	USD	11,245	1,450,493	0.07
Intuitive Surgical, Inc.	USD	36,691	9,735,957	0.49	Rockwell Automation, Inc.	USD	7,297	1,879,488	0.09
Jack Henry & Associates, Inc.	USD	3,272	574,432	0.03	Roper Technologies, Inc.	USD	6,488	2,803,400	0.14
JB Hunt Transport Services, Inc. JM Smucker Co. (The)	USD USD	2,324 6,660	405,213 1,055,344	0.02 0.05	Royal Caribbean Cruises Ltd. S&P Global, Inc.	USD USD	24,832 36,815	1,227,446 12,330,816	0.06 0.62
Johnson & Johnson	USD	115,012	20,316,870	1.02	Salesforce, Inc.	USD	55,428	7,349,199	0.37
Johnson Controls International plc	USD	25,348	1,622,272	0.08	SBA Communications Corp., REIT 'A'	USD	19,418	5,443,060	0.27
KB Home	USD	65,962	2,100,890	0.11	Schlumberger Ltd.	USD	8,304	443,932	0.02
Kellogg Co. Keurig Dr Pepper, Inc.	USD USD	13,198 66,333	940,226 2,365,435	0.05 0.12	Seagate Technology Holdings plc Sempra Energy	USD USD	71,807 53,070	3,777,766 8,201,438	0.19 0.41
KeyCorp	USD	88,680	1,544,806	0.08	ServiceNow, Inc.	USD	7,877	3,058,403	0.15
Keysight Technologies, Inc.	USD	60,936	10,424,322	0.52	Snap, Inc. 'A'	USD	25,998	232,682	0.01
Kimberly-Clark Corp.	USD	52,297	7,099,318	0.35	Snap-on, Inc.	USD	10,203	2,331,283	0.12
KLA Corp. Kroger Co. (The)	USD USD	1,427 11,160	538,022 497,513	0.03	Southern Co. (The) Southwest Airlines Co.	USD USD	20,495 35,382	1,463,548 1,191,312	0.07 0.06
Lam Research Corp.	USD	26,481	11,129,964	0.56	State Street Corp.	USD	49,952	3,874,777	0.19
Lamb Weston Holdings, Inc.	USD	8,870	792,623	0.04	Sun Communities, Inc., REIT	USD	11,818	1,689,974	0.08
Lennar Corp. 'A'	USD	60,073	5,436,606	0.27	SVB Financial Group	USD	5,699	1,311,568	0.07
Lincoln National Corp. Lowe's Cos., Inc.	USD USD	9,433 88,081	289,782 17,549,258	0.01 0.88	Synchrony Financial Sysco Corp.	USD USD	11,128 8,092	365,666 618,633	0.02
Marathon Petroleum Corp.	USD	5,117	595,568	0.03	T Rowe Price Group, Inc.	USD	35,962	3,922,016	0.20
MarketAxess Holdings, Inc.	USD	2,255	628,897	0.03	Tapestry, Inc.	USD	11,034	420,175	0.02
Marriott International, Inc. 'A'	USD	17,083	2,543,488	0.13	Target Corp.	USD	28,492	4,246,448	0.21
Martin Marietta Materials, Inc. Masco Corp.	USD USD	7,597 86,849	2,567,558 4,053,243	0.13 0.20	TE Connectivity Ltd. Teradyne, Inc.	USD USD	41,473 16,630	4,761,100 1,452,630	0.24
Mastercard, Inc. 'A'	USD	79,130	27,515,875	1.38	Tesla, Inc.	USD	165,120	20,339,482	1.02
McCormick & Co., Inc.	USD	15,389	1,275,594	0.06	Texas Instruments, Inc.	USD	112,040	18,511,249	0.93
McDonald's Corp.	USD	66,933	17,638,853	0.88	Thermo Fisher Scientific, Inc.	USD	37,835	20,835,356	1.04
McKesson Corp. Merck & Co., Inc.	USD USD	8,781 157,398	3,293,929 17,463,308	0.16 0.87	TJX Cos., Inc. (The) T-Mobile US, Inc.	USD USD	106,408 64,531	8,470,077 9,034,340	0.42 0.45
Meta Platforms, Inc. 'A'	USD	141,732	17,056,029	0.85	Toll Brothers, Inc.	USD	22,428	1,119,606	0.45
MetLife, Inc.	USD	28,293	2,047,564	0.10	Tractor Supply Co.	USD	6,876	1,546,894	0.08
Microchip Technology, Inc.	USD	34,079	2,394,050	0.12	Travelers Cos., Inc. (The)	USD	53,791	10,085,275	0.50
Micron Technology, Inc. Microsoft Corp.	USD USD	42,295 492,257	2,113,904 118,053,074	0.11 5.90	Trimble, Inc. Truist Financial Corp.	USD USD	15,287 208,531	772,911 8,973,089	0.04 0.45
Mid-America Apartment Communities.		492,237	110,055,074	5.70	Uber Technologies, Inc.	USD	42,435	1,049,418	0.45
Inc., REIT	USD	11,137	1,748,398	0.09	UDR, Inc., REIT	USD	70,053	2,713,153	0.14
Molson Coors Beverage Co. 'B'	USD	11,788	607,318	0.03	Ulta Beauty, Inc.	USD	4,159	1,950,862	0.10
Mondelez International, Inc. 'A' Monster Beverage Corp.	USD USD	8,485 8,681	565,525 881,382	0.03 0.04	Union Pacific Corp. United Parcel Service, Inc. 'B'	USD USD	41,655 77,359	8,625,501 13,448,089	0.43 0.67
Morgan Stanley	USD	116,261	9,884,510	0.49	United Rentals, Inc.	USD	4,384	1,558,161	0.07
Motorola Solutions, Inc.	USD	4,460	1,149,387	0.06	UnitedHealth Group, Inc.	USD	72,349	38,357,993	1.92
Netflix, Inc. Neurocrine Biosciences, Inc.	USD USD	34,327 10,701	10,122,346 1,278,127	0.51 0.06	US Bancorp	USD	309,062	13,478,194	0.67
Newell Brands, Inc.	USD	10,701 22,636	296,079	0.06	Ventas, Inc., REIT Verizon Communications, Inc.	USD USD	93,406 118,368	4,207,940 4,663,699	0.21 0.23
Newmont Corp.	USD	45,351	2,140,567	0.11	Vertex Pharmaceuticals, Inc.	USD	32,032	9,250,201	0.46
News Corp. 'A'	USD	37,360	679,952	0.03	VF Corp.	USD	8,039	221,957	0.01
News Corp. 'B' NextEra Energy, Inc.	USD USD	7,417 217,154	136,769 18,154,074	0.01 0.91	Visa, Inc. 'A'	USD	145,103	30,146,599	1.51
NIKE, Inc. 'B'	USD	76,653	8,969,168	0.45	Walmart, Inc. Walt Disney Co. (The)	USD USD	44,583 74,874	6,321,424 6,505,053	0.32 0.33
Norfolk Southern Corp.	USD	55,614	13,704,402	0.69	Warner Bros Discovery, Inc.	USD	141,550	1,341,894	0.07
Northern Trust Corp.	USD	12,923	1,143,556	0.06	Waste Management, Inc.	USD	23,691	3,716,644	0.19
Nucor Corp. NVIDIA Corp.	USD USD	24,237 141,763	3,194,679 20,717,245	0.16 1.04	Wells Fargo & Co.	USD	374,939	15,481,231	0.77
Old Dominion Freight Line, Inc.	USD	1,608	456,318	0.02	Welltower, Inc., REIT Westinghouse Air Brake Technologies	USD	32,505	2,130,703	0.11
Omnicom Group, Inc.	USD	6,312	514,870	0.03	Corp.	USD	2,192	218,784	0.01
ON Semiconductor Corp.	USD	38,827	2,421,640	0.12	Weylday Jas 'A'	USD	21,814	676,234	0.03
ONEOK, Inc. Oracle Corp.	USD USD	5,034 82,595	330,734 6,751,315	0.02 0.34	Workday, Inc. 'A' WW Grainger, Inc.	USD USD	20,814 5,364	3,482,807 2,983,725	0.17 0.15
O'Reilly Automotive, Inc.	USD	6,317	5,331,737	0.34	Xcel Energy, Inc.	USD	33,770	2,367,615	0.13
Otis Worldwide Corp.	USD	79,423	6,219,615	0.31	Xylem, Inc.	USD	24,951	2,758,832	0.14
PACCAR, Inc.	USD	11,207	1,109,157	0.06	Yum! Brands, Inc.	USD	21,649	2,772,804	0.14
Parker-Hannifin Corp. PayPal Holdings, Inc.	USD	43,058	12,529,878 1,288,512	0.63 0.06	Zebra Technologies Corp. 'A' Zimmer Biomet Holdings, Inc.	USD	3,223	826,409 2,766,367	0.04 0.14
PayPai Holdings, Inc. PepsiCo, Inc.	USD USD	18,092 107,569	1,288,512	0.06	Zimmer Biomet Holdings, Inc. Zoetis, Inc. 'A'	USD USD	21,697 757	2,766,367 110,938	0.14
Pfizer, Inc.	USD	221,497	11,349,506	0.57		430	151		
PG&E Corp.	USD	388,302	6,313,791	0.32	United States total			1,928,352,563	96.45
Phillips 66	USD	30,550	3,179,644	0.16	Total investments in Equities			1 002 064 027	00.00
Pool Corp.	USD USD	2,440 45,105	737,685 5,671,503	0.04 0.28	. Jan myesaments in Equities			1,992,964,827	99.68

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class CHF Hedged	l (acc)*						
CHF	10,018	USD	10,682	03/01/2023	BNP Paribas	146	
CHF	2,224	USD	2,370		Goldman Sachs	34	-
CHF	2,243	USD	2,407		Morgan Stanley	17	-
CHF	369,075	USD	400,214		Morgan Stanley	60	-
CHF	4,236	USD	4,470		Standard Chartered	109	-
CHF	2,763	USD	2,958	03/01/2023	Standard Chartered	28	-
CHF	2,663	USD	2,877	03/01/2023	Standard Chartered	1	-
CHF	384,488	USD	406,433	03/01/2023	State Street	9,140	-
USD	2,798	CHF	2,589	03/01/2023	Bank of America Merrill Lynch	-	-
USD	398,970	CHF	369,075	03/01/2023	Morgan Stanley	56	-
USD	3,618	CHF	3,347	03/01/2023	Morgan Stanley	1	-
Class EUR Hedged							
EUR	106,262	USD	112,191	03/01/2023		1,218	-
EUR	14,011,356	USD	14,939,566	02/02/2023		45,665	-
EUR	2,191,826	USD	2,263,299		BNP Paribas	75,926	-
EUR	1,669,595	USD	1,755,474		BNP Paribas	26,400	-
EUR	210,893	USD	225,251		BNP Paribas	300	-
EUR	136,511	USD	141,142	03/01/2023		4,549	-
EUR	72,068	USD	75,237	03/01/2023		1,678	-
EUR	89,178	USD	94,285	03/01/2023	HSBC	890	-
EUR	401,308	USD	421,467		Morgan Stanley	6,829	-
EUR	103,600	USD	110,441		Morgan Stanley	126	-
EUR	211,033	USD	225,052	02/02/2023		649	-
EUR	12,220,511	USD	12,697,430		Standard Chartered	344,905	0.02
EUR	1,510	USD	1,596		Standard Chartered	16	-
EUR	68,544	USD	71,715		State Street	1,438	-
EUR	7,902	USD	8,311	03/01/2023	State Street	123	
Total unrealised §	gain on Forward Currency Contracts					520,304	0.02
Class CHF Hedged						4-1	
CHF	5,161	USD	5,607		Morgan Stanley	(9)	-
CHF	5,485	USD	5,964		Morgan Stanley	(15)	-
USD	5,661	CHF	5,249		Bank of America Merrill Lynch	(32)	-
USD	10,297	CHF	9,542		Morgan Stanley	(17)	-
USD	4,594	CHF	4,272		Morgan Stanley	(23)	-
USD	6,068	CHF	5,696		Morgan Stanley	(88)	-
USD	8,659	CHF	8,115		Morgan Stanley	(112)	-
USD	3,986	CHF	3,678		Standard Chartered	(2)	-
USD	6,321	CHF	5,999	03/01/2023	State Street	(163)	-
Class EUR Hedged USD		FIID	105 421	02/02/2022	Bank of America Merrill Lynch	(1.252)	
	207,762	EUR	195,431			(1,253)	-
USD USD	108,681	EUR	103,633	03/01/2023		(1,921)	-
	14,908,082	EUR	14,011,356	03/01/2023		(45,530)	-
USD	91,140	EUR	86,462 330.213		BNP Paribas	(1,137)	-
USD	350,875 318,514	EUR	,		BNP Paribas	(1,545)	-
USD	218,516	EUR	206,914		BNP Paribas	(2,312)	-
USD	72,412	EUR	70,128		BNP Paribas	(2,433)	-
USD	178,131	EUR	169,431		BNP Paribas	(2,694)	-
USD	152,603	EUR	147,850		BNP Paribas	(5,190)	-
USD	478,990	EUR	453,884		BNP Paribas	(5,417)	-
USD	148,884	EUR	139,626		BNP Paribas	(447)	-
USD	106,977	EUR	100,635	03/01/2023		(426)	-
USD	176,252	EUR	165,862	03/01/2023		(764)	-
USD	650	EUR	616		Morgan Stanley	(7)	-
USD	139,021	EUR	130,536		Morgan Stanley	(294)	-
USD	393,086	EUR	369,564		Morgan Stanley	(1,331)	-
USD	244,432	EUR	232,491		Morgan Stanley	(3,694)	-
USD	311,126	EUR	295,157		Morgan Stanley	(3,880)	-
USD	195,926	EUR	188,831		Morgan Stanley	(5,604)	-
USD	5,213	EUR	4,888	02/02/2023		(15)	-
USD	3,428	EUR	3,248		State Street	(39)	-
USD	2,073	EUR	2,005	03/01/2023	State Street	(67)	
Total unrealised I	oss on Forward Currency Contracts					(86,461)	

 $<sup>{}^{\</sup>star}\mathrm{Contracts}$  entered into for share class currency hedging purpose.

Schedule of Investments (continued)

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash			1,993,485,131 (86,461) 1,096,453	99.70 - 0.05
Undertaking for collective investment schemes (31 December 2021: 0.19%) JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.) <sup>1</sup> Total Cash equivalents Other assets and liabilities Net asset value attributable to holders of redeemable participating shares	<b>Currency</b> USD	Quantity/ Nominal Value 5,141,815	5,141,815 5,141,815 (234,408) 1,999,402,530	0.26 0.26 (0.01) 100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Collective investment schemes OTC financial derivative instruments Other assets  Total Assets				99.58 0.26 0.03 0.13 100.00

 $<sup>^{1}\</sup>mathrm{A}$  related party to the Fund.

# JPMorgan ETFs (Ireland) ICAV - USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF

Schedule of Investments

Command New Securities CH December 2012   1985	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Compose the Security of Lange   Security of Compose   Security o	Bonds									
Manual Descenter 2011   1985	Corporate Debt Securities (31 December	2021: 98.60%	<b>6</b> )				USD	401,000	268,101	0.30
1009 10000   1009    1009							USD	204,000	137,203	0.15
Marchane	10/08/2033	USD	76,000	70,996	0.08	Japan total		_	2,745,883	3.06
Page	18/11/2036	USD	371,000	274,474	0.31			_		
Apprint   Appr		USD	50,000	41,376	0.05		USD	52,000	45,494	0.05
Contact   Cont	Westpac Banking Corp. 3.13% 18/11/2041	USD	89,000	58,778 ——————————————————————————————————	0.06	Luxembourg total			45,494	0.05
Section   Continue			=	445,624	0.50	Fomento Economico Mexicano SAB de CV		_		
March Colf Decrebory 2017; 0.27982   Septimate ACC 0.83983   Septimate ACC 0		USD	200,000	167,426	0.19	3.50% 16/01/2050	USD	304,000 _	212,887	0.24
Part	Austria total			167,426	0.19	Mexico total		_	212,887	0.24
Secretary Color   Secretary			-							
Canada FL   Cana		USD	446,000	312,286	0.35	Finance Ltd. 3.88% 15/01/2027	USD	226,000	213,953	0.24
Part	Bermuda total		=	312,286	0.35	01/03/2024	USD	366,000	363,062	0.41
Signification   Significatio			-			Inc. 2.70% 01/05/2025	USD	90,000	84,617	0.09
19.00/07/2074   US   20.000   193.414   O.22   Monthational roll of Linearher 2021; 6.6%   Section 1.000   Conceiling Pacific Railway Co. 1.39%   US   0.5000   0.55, 20.000   183.79%   O.27   Conceiling Pacific Railway Co. 1.00%   US   0.5000   185.79%   O.27   Tollefordic Pacificines S. A. 4.00%   US   0.5000   185.79%   O.27		USD	60,000	38,288	0.04		USD	509,000	353,754	0.39
Canadian Pacific Railway Co. 13996   USD   50,000   335,899   USD   50,000   45,447   USD   50,000   183,358   USD   20,000   183,358   USD   20,000   183,358   USD   20,000   183,358   USD   20,000   122,656   USD   20,000   USD		USD	221.000	193,434	0.22	Multinational total		_	1,015,386	1.13
Canadian Pacific Railway Co. J.0796   USD   0.1500   0.45.447   USD   0.1500   0.178,000   133.759   0.15   0.15   0.15   0.0702/12/2051   USD   0.25   0.				335.899	0.37			_		
Canadian Pacific Railway Co. 3,0066	Canadian Pacific Railway Co. 1.75%						USD	200,000	185,358	0.21
Canadian pacific apilway Co. 3.10%   234,000   159,470   0.18   58,410   0.19   547,000   205,000   24,000   205,000   24,000   205,000   24,000   205,000   24,000   205,000   24,000   205,000   24,000   205,000   24,000   205,000   24,000   205,000   24,000   205	Canadian Pacific Railway Co. 3.00%						USD	250,000	192,865	0.21
Forcis   1.0   1	Canadian Pacific Railway Co. 3.10%					Spain total		_	378.223	0.42
Surrice Fiergy, Inc. 4.00% ISJI1/2047   USD   S0.000   44.0900   0.05   Astrazeneca pic 3.38% IsJII/2070205   USD   640,000   44.0900   0.05   Astrazeneca pic 3.38% IsJII/2070205   USD   240,000   169,500   0.19   100,000						United Kinadom (31 December 2021: 5 44%)	)	_		
15/09/2031   USD   341,000   313,998   O.35   Astrazence a in 2.00% 28/05/2056   USD   240,000   169,500   O.30   Toronte-Deminion Bank (The) 2.45%   USD   200,000   184,897   O.22   HSGE (Volder) (Inc. 1.50%   USD   313,000   208,371   O.23   HSGE (Volder) (Inc. 1.50%   USD   313,000   208,371   O.23   HSGE (Volder) (Inc. 1.50%   USD   300,000   184,897   O.23   HSGE (Volder) (Inc. 1.50%   USD   300,000   208,371   O.23   HSGE (Volder) (Inc. 1.50%   USD   300,000   208,540   O.23   HSGE (Volder) (Inc. 1.50%   USD   300,000   O.55,440   O.23   HSGE (Volder) (Inc. 1.50%   USD   300,000   O.55,440   O.23   HSGE (Volder) (Inc. 1.50%   USD   0.00,000   O.55,440   O.55   O.25			58,000	44,090	0.05	AstraZeneca plc 3.38% 16/11/2025	USD			
Toronto Demunion Bank (Tine) 2.45%   USD   700,000   566,027   0.63   Bar(days pl.c FRN 2.59% 90/705/2026   USD   200,000   184,698   0.21   EVA 0.000   184,698   0.21   EVA 0.000   194,499   0.22   EVA 0.000   194,590   0.20   EVA 0.000   194,499   0.22   EVA 0.000   194,499   0.22   EVA 0.000   194,499   0.22   EVA 0.000   194,590   0.20   EVA 0.000   194,59	15/09/2031		341,000	313,998	0.35					
Waste Connections, Inc. 3-50% Office Connections, Inc. 3-50% Inc. 3-50% Inc. 3-50% Office Connections, Inc. 3-50% Inc. 3-50% Inc. 3-50% Office Connections, Inc. 3-50% Inc. 3-50% Office Connections, Inc. 3-50% Inc. 3-50% Inc. 3-50% Inc. 3-50% Office Connections, Inc. 3-50% Inc. 3-5		USD	700,000	566,027	0.63					
Maste Connections, Inc. 2.95% 15/01/2052   USD   313,000   208,371   0.23   HSRL Holdings in C. HWY 2.71% 17/103030   USD   300,000   286,549   0.32		IISD	202.000	184 892	0.21	HSBC Holdings plc, FRN 2.63% 07/11/2025				0.89
Cayman Islands (31 December 2021: 0.00%)   177.50										
Natives Group plc. FRN 1.64%   1.64%	Canada total		-	2,490,270	2.78	HSBC Holdings plc, FRN 3.97%			/-	
17.50   17.5		)	-			NatWest Group plc, FRN 1.64%				
Prance (31 December 2021: 0.68%)   USD   30.000   225.000   30.000   225.000   30.		USD	200,000	177,507	0.20	NatWest Group plc, FRN 5.08%				
France (al) December 2021: 0.68%    BPCE SA 4.009 b 15/04/2024   USD   30,000   22.558   0.03   United Kingdom total   United Kingdom total   United Kingdom total   United Kingdom total   USD   171.000   173.030   0.19   United Kingdom total   United Kingdom total   United Kingdom total   United Kingdom total   USD   0.000   T.1,1100   0.000   0.000   0.15   United Kingdom total   USD   0.000   0.15   USD   0.000	Cayman Islands total		-	177,507	0.20	NatWest Group plc, FRN 3.03%		,		
Indice Kingdom total   International SA   14,000   30,000   22,558   0.08   22,558   0.08   30,600   22,558   0.08   30,600   22,558   0.08   30,600   22,558   0.08   30,600   22,558   0.08   30,600   22,558   0.08   30,600   40,607,2048   0.50   0.000   71,119   0.08   30,600   31,600   0.15   34,000   30,11/2046   0.15   34,000   30,11/2046   0.15   34,000   30,11/2046   0.15   34,000   30,11/2046   0.15   34,000   30,11/2046   0.15   34,000   30,11/2046   0.15   34,000   32,11/2046   0.15   34,000   32,11/2046   0.15   34,000   32,11/2046   0.15   34,000   32,11/2046   0.15   34,000   32,11/2046   0.15   34,000   30,11/2046   0.15   34,000		1165	-	450.044	0.51					
3.49%   12/07/2049   155   30,000   22.558   0.03   12/04,000   99.546   0.11   31.39   20/05/2050   0.15   0.065   0.000   0.15   0.065   0.000   0.15   0.065   0.000   0.15   0.065   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.12   0.000   0.0623   0.000   0.0623   0.000   0.0623   0.000	TotalEnergies Capital International SA					United Kingdom total		_	4,177,833	4.66
Abbott Laboratories 4.90% 30/11/2046   USD   136,000   133,070   0.15     Ireland (31 December 2021: 2.17%)   Abbvie, Inc. 2.95% 2/11/2026   USD   110,000   0.3185   0.10     Abbvie, Inc. 2.95% 2/11/2028   USD   250,000   241,728   0.27     Abbvie, Inc. 4.25% 14/11/2028   USD   250,000   241,728   0.27     Abbvie, Inc. 4.25% 14/11/2028   USD   250,000   241,728   0.27     Abbvie, Inc. 4.25% 14/11/2028   USD   250,000   241,728   0.27     Abbvie, Inc. 4.25% 14/11/2039   USD   250,000   251,838   0.28     Abbvie, Inc. 4.79% 14/05/2045   USD   90,000   80.396   0.09     Abbvie, Inc. 4.79% 14/05/2045   USD   90,000   80.396   0.09     Abbvie, Inc. 4.79% 14/05/2045   USD   20,000   176,519   0.20     Abbvie, Inc. 4.79% 14/05/2045   USD   20,000   23,2863   0.26     Abbvie, Inc. 4.79% 14/05/2045   USD   20,000   30,4385   0.34     Abbvie, Inc. 4.79% 14/05/2045   USD   30,000   30,4385   0.34     Abbvie, Inc. 4.79% 14/05/2045   USD   30,000   30,4385   0.34     Abbvie, Inc. 4.79% 14/05/2045   USD   30,000   30,4385   0.34     Abbvie, Inc. 4.79% 14/05/2047   USD   30,000   30,4385   0.34     Abbvie, Inc. 4.79% 14/05/2045   USD   10,000   10,000   10,000     Abbvie, Inc. 4.79% 14/05/2045   USD   10,000   10,000   10,000     Abbvie, Inc. 4.79% 14/05/2045   USD   10,000   10,000     Abbvie, Inc. 4.79% 14/05/2045   USD   10,000   30,000     Abbvie, Inc. 4.79% 14/05/2045   USD   10,000   30,000     Abbvie, Inc. 4.79% 14/05/2045   USD   10,	TotalEnergies Capital International SA	USD						-		
Peland (31 December 2021: 2.17%)	3.13% 29/05/2050	USD	140,000	99,546	0.11					
Abbvie, Inc. 4.25% 14/11/2028   USD   250,000   241,728   0.27     Abbvie, Inc. 4.75% 14/11/2028   USD   250,000   241,728   0.27     Abbvie, Inc. 4.75% 14/11/2039   USD   200,000   171,284   0.19     Abbvie, Inc. 4.75% 14/11/2039   USD   200,000   171,284   0.19     Abbvie, Inc. 4.75% 14/11/2039   USD   200,000   200,000   171,284   0.19     Abbvie, Inc. 4.75% 14/11/2039   USD   200,000   171,284   0.19     Abbvie, Inc. 4.75% 14/12/2049   USD   200,000   171,284   0.19     Abbvie, Inc. 4.75% 14/11/2039   USD   200,000   232,863   0.26     Abbvie, Inc. 4.75% 14/12/2049   USD   250,000   250,000   241,728   0.26     Abbvie, Inc. 4.75% 14/12/2049   USD   250,000   250,000   241,728   0.26     Abbvie, Inc. 4.75% 14/12/2049   USD   250,000   241,728   0.26     Abbvie, Inc. 4.75% 14/12/2049   USD   250,000   241,728   0.26     Abbv	France total			581,150	0.65					
Above   Inc. 4.59% 2/10/2039   USD   200,000   171,284   0.19     Above   Inc. 4.09% 2/10/2039   USD   200,000   80,396   0.09     Above   Inc. 4.09% 14/10/2039   USD   200,000   80,396   0.09     Above   Inc. 4.09% 14/10/2039   USD   200,000   80,396   0.09     Above   Inc. 4.25% 2/11/2049   USD   210,000   176,519   0.20     Above   Inc. 4.25% 2/11/2049   USD   200,000   232,863   0.26     Above   Inc. 4.25% 2/11/2049   USD   250,000   232,863   0.26     Advanced Micro Devices, Inc. 3.92%   USD   394,000   307,655   0.34     Attraction   Inc. 4.25% 2/11/2049   USD   394,000   307,455   0.34     Attraction   Inc. 4.25% 2/10/2020   USD   512,000   482,522   0.54     Albemarle Corp. 5.05% 0/106/2032   USD   512,000   482,522   0.54     Albemarle Corp. 5.05% 0/106/2032   USD   512,000   482,522   0.54     Albemarle Corp. 5.05% 0/106/2032   USD   512,000   107,069   0.12     Allexandria Real Estate Equities, Inc. 188% 0/10/2/2033   USD   342,000   254,810   0.28     Amazon.com, Inc. 3.88% 2/2/08/2037   USD   393,000   348,579   0.39     Amazon.com, Inc. 3.88% 2/2/08/2047   USD   342,000   36,310   0.04     Amazon.com, Inc. 2.70% 0/3/06/205   USD   340,000   36,310   0.04     Amazon.com, Inc. 2.70% 0/3/06/205   USD   340,000   36,310   0.04     Amazon.com, Inc. 2.70% 0/3/06/205   USD   213,000   36,310   0.04     Amazon.com, Inc. 2.70% 0/3/06/205   USD   213,000   36,310   0.04     Amazon.com, Inc. 2.70% 0/3/06/205   USD   340,000   36,310   0.04     Amazon.com, Inc. 2.70% 0/3/06/205   USD   340,000   36,310   0.04     Amazon			-							
Abbvie, Inc. 4.25% 21/11/2049   USD   210,000   176,519   0.20     Ireland total   I.055,127   I.18   I.055,127   I.055,127   I.055,127   I.055,127   I.055,127   I	Global Aviation Trust 3.85% 29/10/2041	USD	650,000	459,130	0.51					
1,055,127   1.18		USD	634,000	595,997	0.67	AbbVie, Inc. 4.25% 21/11/2049			,	
Air Lease Corp. 2.30% 01/02/2025   USD   330,000   307,659   0.34	Ireland total		-	1,055,127	1.18	01/06/2032				
Missubishi UFJ Financial Group, Inc. ,FRN   4.79% 18/07/2025   USD   899,000   889,287   0.04   Alexandria Real Estate Equities, Inc.   4.90% 15/12/2030   USD   342,000   254,810   0.28   0.28   0.28   0.39   0	Japan (31 December 2021: 2.91%)		-							
Mitsubishi UFJ Financial Group, Inc. 3.96% 02/03/2028 USD 41,000 38,727 0.04 Alexandria Real Estate Equities, Inc. 1.88% 01/02/2033 USD 342,000 254,810 0.28 07/03/2029 USD 531,000 489,984 0.55 Amazon.com, Inc. 3.88% 22/08/2037 USD 393,000 348,579 0.39 Amazon.com, Inc. 3.88% 22/08/2037 USD 393,000 348,579 0.39 Amazon.com, Inc. 4.05% 22/08/2047 USD 42,000 36,310 0.04 2.31% 20/07/2032 USD 202,000 193,909 0.22 Amazon.com, Inc. 2.50% 03/06/2050 USD 213,000 135,151 0.15 0.15 0.263% 14/07/2026 USD 215,000 198,424 0.25 American International Group, Inc. 2.50% 15/12/2027 USD 340,000 300,139 0.33 0.36% 12/07/2027 USD 215,000 198,424 0.25 American International Group, Inc. 2.50% 03/06/2025 USD 129,000 159,214 0.18 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15		USD	899,000	889,287	0.99			512,000	482,522	0.54
Mitsubishi UFJ Financial Group, Inc. 3.74% 07/03/2029 USD 531,000 489,984 0.55 Amazon.com, Inc. 3.88% 22/08/2037 USD 393,000 348,579 0.39 Mitsubishi UFJ Financial Group, Inc., FRN 2.31% 20/07/2032 USD 60,000 46,264 0.05 Amazon.com, Inc. 2.50% 03/06/2050 USD 213,000 36,310 0.04 2.70% 16/07/2024 USD 202,000 193,909 0.22 Amazon.com, Inc. 2.70% 03/06/2050 USD 99,000 60,256 0.07 Amazon.com, Inc. 2.70% 03/06/2050 USD 340,000 300,139 0.33 USD 340,000 348,579 0.39 USD 340,000 34			41.000	38,727	0.04	4.90% 15/12/2030	USD	110,000	107,069	0.12
Mitsubishi UFJ Financial Group, Inc., FRN 2.31% 20/07/2032 USD 60,000 46,264 0.05 Amazon.com, Inc. 4.05% 22/08/2047 USD 42,000 36,310 0.04 2.31% 20/07/2024 USD 202,000 193,909 0.22 Amazon.com, Inc. 2.50% 03/06/2050 USD 213,000 135,151 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0					0.55	1.88% 01/02/2033				
Sumitomo Mitsui Financial Group, Inc. 2.70% 16/07/2024 USD 202,000 193,909 0.22 Amazon.com, Inc. 2.70% 03/06/2060 USD 99,000 60,256 0.07 2.70% 16/07/2024 USD 440,000 402,994 0.45 Sumitomo Mitsui Financial Group, Inc. 2.30% 15/07/2027 USD 215,000 198,424 0.22 American International Group, Inc. 2.50% 20/08/205 USD 169,000 159,214 0.18 2.14% 23/09/2030 USD 105,000 80,990 0.60 256 0.07 2.20% 20/08/205 USD 169,000 159,214 0.18 2.14% 23/09/2030 USD 105,000 80,990 0.60 256 0.07 2.20% 20/08/205 USD 169,000 159,214 0.18 2.14% 23/09/2030 USD 105,000 80,990 0.60 257,170 0.29 2.20% 20/08/205 USD 105,000 80,990 0.60 257,170 0.29 2.20% 20/08/205 USD 105,000 257,170 0.29 2.20% 20/08/205 USD 105,000 97,041 0.11 2.20% 21/02/2030 USD 115,000 97,041 0.11 2.20% 21/02/2030 USD 115,000 97,041 0.11 2.20% 21/02/2040 USD 70,000 51,692 0.06	Mitsubishi UFJ Financial Group, Inc., FRN					Amazon.com, Inc. 4.05% 22/08/2047	USD	42,000	36,310	0.04
2.70% 16/07/2024 USD 202,000 193,909 0.22 Ameren Corp. 3.50% 15/01/2031 USD 340,000 300,139 0.33 Sumitomo Mitsui Financial Group, Inc. 2.63% 14/07/2026 USD 440,000 402,994 0.45 Sumitomo Mitsui Financial Group, Inc. 3.36% 12/07/2027 USD 159,000 198,424 0.22 American International Group, Inc. 2.14% 23/09/2030 USD 105,000 80,990 0.09 AmerisourceBergen Corp. 3.45% 15/12/2027 USD 129,000 120,513 0.13 AmerisourceBergen Corp. 2.70% 15/03/2031 USD 310,000 257,170 0.29 AmerisourceBergen Corp. 2.20% 21/02/2027 USD 145,000 130,336 0.15 Amgen, Inc. 2.45% 21/02/2030 USD 115,000 97,041 0.11 Amgen, Inc. 3.15% 21/02/2040 USD 70,000 51,692 0.06	Sumitomo Mitsui Financial Group, Inc.									
Sumitomo Mitsui Financial Group, Inc.   3.36% 12/07/2027   USD   215,000   198,424   0.22   AmerisourceBergen Corp. 3.45%   15/12/2027   USD   129,000   120,513   0.13	Sumitomo Mitsui Financial Group, Inc.					Ameren Corp. 3.50% 15/01/2031				
Sumitomo Mitsui Financial Group, Inc.   USD   105,000   80,990   0.09   AmerisourceBergen Corp. 2.70%   USD   129,000   120,513   0.1	Sumitomo Mitsui Financial Group, Inc.					30/06/2025	USD	169,000	159,214	0.18
15/03/2031 USD 310,000 257,170 0.29  Amgen, Inc. 2.20% 21/02/2030 USD 115,000 97,041 0.11  Amgen, Inc. 3.15% 21/02/2040 USD 70,000 51,692 0.06	Sumitomo Mitsui Financial Group, Inc.					15/12/2027	USD	129,000	120,513	0.13
Amgen, Inc. 2.45% 21/02/2030 USD 115,000 97,041 0.11 Amgen, Inc. 3.15% 21/02/2040 USD 70,000 51,692 0.06	2.14% 23/09/2030	USD	105,000	80,990	0.09	15/03/2031				
Amgen, Inc. 3.15% 21/02/2040 USD 70,000 51,692 0.06										
American Inc. 3 000/ 15/00/3041 UCB 43/ 000 01/400 014						-				

Schedule of Investments (continued)

Amgen, Inc. 3.38% 21/02/2050 USD 60,000 41,962 0.05 Bristol-Myers Squibb Co. 4.35% Amgen, Inc. 4.40% 22/02/2062 USD 360,000 288,799 0.32 15/11/2047 USD 100,000 88,33 Anheuser-Busch Cos. LLC / Anheuser-Busch InBev Worldwide, Inc. 3.65% 01/02/2026 USD 386,000 371,801 0.41 Brixmor operating Partnership LP 4.13% Anheuser-Busch InBev Worldwide, Inc. 4.70% 01/02/2036 USD 621,000 585,462 0.65 01/07/2030 USD 560,000 422,2 Anheuser-Busch Cos. LLC / Anheuser-Busch Cos. LLC / Anheuser-Busch Cos. LLC / Anheuser-Busch InBev Worldwide, Inc. 4.90% 01/02/2046 USD 407,000 372,445 0.42 Brown & Brown, Inc. 4.95% 17/03/2052 USD 51,000 41,6 Anheuser-Busch InBev Worldwide, Inc. 4.60% 15/04/2048 USD 46,000 40,492 0.05 01/09/2044 USD 56,000 52,88 Elevance Health, Inc. 4.65% 15/08/2044 USD 78,000 69,588 0.08 15/05/2030 USD 297,000 255,78	0.07 0.07 0.08 0.25 0.2 0.10 0.35 0.48 0.05 0.88 0.24 0.06 0.88 0.29 0.47 0.57 0.53 0.25 0.00 0.10 0.38 0.29 0.05 0.38 0.29 0.05 0.38 0.06 0.38 0.29 0.05 0.38 0.06 0.38 0.06 0.06 0.07 0.07 0.07 0.08 0.08 0.08 0.09 0
Anheuser-Busch InBev Worldwide, Inc. 3.65% 01/02/2026 USD 386,000 371,801 0.41 Brixmor Operating Partnership LP 4.13% 15/05/2029 USD 246,000 219,7' Anheuser-Busch InBev Worldwide, Inc. 4.70% 01/02/2036 USD 621,000 585,462 0.65 01/07/2030 USD 560,000 492,2 Anheuser-Busch InBev Worldwide, Inc. 4.70% 01/02/2036 USD 621,000 372,445 0.42 Broadcom, Inc. 2.45% 15/02/2031 USD 110,000 86,6' 4.90% 01/02/2046 USD 407,000 372,445 0.42 Brown & Brown, Inc. 4.95% 17/03/2052 USD 51,000 426,6' Anheuser-Busch InBev Worldwide, Inc. 4.60% 15/04/2048 USD 46,000 40,492 0.05 01/09/2044 USD 596,000 238,000 216,0' Anheuser-Busch InBev Worldwide, Inc. 5.80% 23/01/2059 USD 59,000 60,925 0.07 Camden Property Trust 4.10% 15/10/2028 USD 56,000 52,86'	98 0.25 12 0.55 02 0.10 85 0.48 78 0.05 58 0.24 84 0.06 58 0.29 47 0.57 63 0.25 00 0.10 038 0.06 58 0.14 059 0.10 067
Anheuser-Busch Inßev Worldwide, Inc. 4.70% 01/02/2036 USD 621,000 585,462 0.65 01/07/2030 USD 560,000 492,2 Anheuser-Busch Inßev Worldwide, Inc. 4.90% 01/02/2046 USD 407,000 372,445 0.42 Broadcom, Inc. 3.50% 15/02/2041 USD 596,000 426,6 Anheuser-Busch Inßev Worldwide, Inc. 4.90% 01/02/2046 USD 407,000 372,445 0.42 Brown & Brown, Inc. 4.95% 17/03/2052 USD 51,000 41,6 Anheuser-Busch Inßev Worldwide, Inc. 4.60% 15/04/2048 USD 46,000 40,492 0.05 01/09/2044 USD 46,000 40,492 0.05 01/09/2044 USD 238,000 216,00 USD 59,000 60,925 0.07 Camden Property Trust 4.10% 15/10/2028 USD 56,000 52,88	12 0.55 12 0.10 185 0.48 178 0.05 188 0.24 184 0.06 188 0.29 187 0.57 183 0.25 183 0.25 183 0.25 184 0.06 185 0.25 185 0.25
Anheuser-Busch Cos. LLC / Anheuser-Busch InBev Worldwide, Inc. 4.90% 01/02/2046  Anheuser-Busch InBev Worldwide, Inc. 4.60% 15/04/2048  USD 40,000 40,492  Anheuser-Busch InBev Worldwide, Inc. 4.60% 15/04/2048  USD 46,000 40,492  Anheuser-Busch InBev Worldwide, Inc. 4.60% 15/04/2048  USD 46,000 40,492  Anheuser-Busch InBev Worldwide, Inc. 5.80% 23/01/2059  USD 59,000 60,925  Camden Property Trust 4.10% 15/10/2028  USD 110,000 86,66 Broadcom, Inc. 2.45% 15/02/2041  USD 596,000 426,66 Brown & Brown, Inc. 4.95% 17/03/2052  USD 51,000 41,66 Brown & Brown, Inc. 4.95% 17/03/2052  USD 51,000 41,66 Ol/09/2044  Anheuser-Busch InBev Worldwide, Inc. 5.80% 23/01/2059  USD 59,000 60,925  Camden Property Trust 4.10% 15/10/2028  USD 56,000 52,81	022 0.10 035 0.48 78 0.05 58 0.24 64 0.06 58 0.29 47 0.57 63 0.25 60 0.10 63 0.06 65 0.14 65 0.30 60 0.67
4.90% 01/02/2046 USD 407,000 372,445 0.42 Brown & Brown, Inc. 4.95% 17/03/2052 USD 51,000 41,6 Anheuser-Busch InBev Worldwide, Inc. 4.60% 15/04/2048 USD 46,000 40,492 0.05 01/09/2044 USD 238,000 216,01 Anheuser-Busch InBev Worldwide, Inc. 5.80% 23/01/2059 USD 59,000 60,925 0.07 Camden Property Trust 4.10% 15/10/2028 USD 56,000 52,88	78 0.05 58 0.24 68 0.29 47 0.57 63 0.25 60 0.10 68 0.14 69 0.67
4.60% 15/04/2048 USD 46,000 40,492 0.05 01/09/2044 USD 238,000 216,01	34 0.06 58 0.29 47 0.57 63 0.25 00 0.10 38 0.06 58 0.14 25 0.30
5.80% 23/01/2059 USD 59,000 60,925 0.07 Camden Property Trust 2.80%	0.29 47 0.57 63 0.25 00 0.10 038 0.06 58 0.14 25 0.30 00 0.67
15/05/2000 E55,7	63 0.25 00 0.10 38 0.06 58 0.14 25 0.30 90 0.67
Apple, Inc. 2.85% 11/05/2024         USD         450,000         438,282         0.49         Capital One Financial Corp. 3.30%           Apple, Inc. 2.50% 09/02/2025         USD         100,000         95,613         0.11         30/10/2024         USD         532,000         513,4           Apple, Inc. 2.50% 09/02/2025         USD         100,000         95,613         0.11         30/10/2024         USD         532,000         513,4	0.00 0.10 38 0.06 58 0.14 25 0.30 90 0.67
Apple, Inc. 1.13% 11/05/2025 USD 56,000 51,603 0.06 Capital One Financial Corp., FRN 2.36% Apple, Inc. 0.55% 20/08/2025 USD 80,000 72,130 0.08 29/07/2032 USD 315,000 226,8	0.00 0.10 38 0.06 58 0.14 25 0.30 90 0.67
Apple, Inc. 3.25% 23/02/2026 USD 437,000 419,985 0.47 Carrier Global Corp. 3.38% 05/04/2040 USD 118,000 89,40	0.14 0.30 0.67
Apple, Inc. 3.00% 20/06/2027 USD 109,000 102,719 0.11 Carrier Global Corp. 3.58% 05/04/2050 USD 70,000 50.12	25 0.30 90 0.67
Apple, Inc. 2.20% 11/09/2029 USD 120,000 103,668 0.12 Caterpillar, Inc. 3.80% 15/08/2042 USD 152,000 129,3: Apple, Inc. 1,70% 05/08/2031 USD 101.000 80,772 0.09 Caterpillar, Inc. 3,25% 19/09/2049 USD 353,000 267.8	90 0.67
Apple, Inc. 1.70% 05/08/2031 USD 101,000 80,772 0.09 Caterpillar, Inc. 3.25% 19/09/2049 USD 353,000 267,8 Apple, Inc. 3.85% 04/05/2043 USD 50,000 43,442 0.05 Celanese US Holdings LLC 6.05%	
Apple, Inc. 3.45% 09/02/2045 USD 140,000 112,670 0.13 15/03/2025 USD 602,000 600,29	0.30
Apple, Inc. 3.75% 12/09/2047 USD 84,000 70,117 0.08 Celanese US Holdings LLC 6.33%	0.30
Apple, Inc. 2.65% 08/02/2051 USD 300,000 200,194 0.22 15/07/2029 USD 275,000 267,60 Apple, Inc. 2.55% 20/08/2060 USD 209,000 127,913 0.14 Celanese US Holdings LLC 6.38% 15/07/2032 USD 99,000 94,5	13 0.11
Astrazeneca Finance LLC 1.20% 28/05/2026 USD 76,000 67,715 0.08 Center-Point Energy, Inc. 2.65%	
AT&T, Inc. 5, 45% 01/03/2047 USD 150 000 141,383 0.16 01/06/2031 USD 580,000 477,90	
AT&T, Inc. 4.50% 09/03/2048 USD 138,000 112,312 0.13 CF Industries, Inc. 4.95% 01/06/2043 USD 293,000 250,0	
ATAT, III. 3.30% 13/09/2003 USD 190,000 133,332 0.13 Charter Communications Operating LLC /	0.15
Baltimore Gas & Electric Co. 6.35%  1/10/2026  USD 140,000 127,031 0.14 Charter Communications Operating  Capital 4.91% 23/07/2025 USD 460,000 451,1	22 0.50
Baltimore Gas & Electric Co. 2.90%  15/06/2050  USD 130,000 86,449 0.10 Charter Communications Operating LLC / Carter Communications Operating Charter Communications Operating Charter Communications Operating Charter Communications Operating USD 100,000 77,7:	50 0.09
Bank of America Corp., FRN 3.46% 15/03/2025 USD 363,000 353,651 0.39 Charter Communications Operating LLC /	0.07
Bank of America Corp. 3.88% 01/08/2025 USD 221,000 215,159 0.24 Capital 6.38% 23/10/2035 USD 510,000 498,00 Bank of America Corp., FRN 3.82% Charter Communications Operating LLC /	68 0.56
20/01/2028 USD 538,000 502,250 0.56 Charter Communications Operating Bank of America Corp., FRN 3.42% Capital 5.38% 01/05/2047 USD 50,000 39,3 20/12/2028 USD 1,269,000 1,151,023 1.28 Charter Communications Operating LLC /	97 0.04
20/12/2028 USD 1,269,000 1,151,023 1.28 Charter Communications Operating LLC / Bank of America Corp., FRN 2.50% Charter Communications Operating 13/02/2031 USD 485,000 394,017 0.44 Capital 4.80% 01/03/2050 USD 210,000 153,6	63 0.17
Bank of America Corp., FRN 2.69% 22/04/2032 USD 210,000 168,015 0.19 Charter Communications Operating LLC /	
Bank of America Corp., FRN 4.24% Capital 3.70% 01/04/2051 USD 60,000 36,5 24/04/2038 USD 297,000 254,043 0.28 Charter Communications Operating LLC /	25 0.04
Bank of America Corp., FRN 3.31% Charter Communications Operating 22/04/2042 USD 261,000 191,924 0.21 Capital 3.85% 01/04/2061 USD 100,000 57,7 Bank of America Corp., FRN 3.95% USD 261,000 191,924 0.21 Capital 3.85% 01/04/2061 USD 100,000 57,7 Cheniere Energy Partners LP 4.50%	77 0.06
23/01/2049 USD 173,000 133,639 0.15 01/10/2029 USD 689,000 620,1  Becton Dickinson & Co. 3.36% Cheniere Energy Partners LP 3.25%	17 0.69
06/06/2024 USD 99,000 96,581 0.11 31/01/2032 USD 121,000 96,3 Becton Dickinson & Co. 3.70% Chevron Corp. 2.95% 16/05/2026 USD 309,000 293,2	
06/06/2027 USD 103,000 97,433 0.11 Church & Dwight Co., Inc. 3.95% Becton Dickinson & Co. 4.69% 15/12/2044 USD 121,000 107,673 0.12 01/08/2047 USD 276,000 217,54	16 0.24
Becton Dickinson & Co. 4.69% 15/12/2044 USD 121,000 107,673 0.12 01/08/2047 USD 276,000 217,54 Becton Dickinson & Co. 4.67% USD 276,000 83,74 Cigna Corp. 2.40% 15/03/2030 USD 100,000 83,75 Cigna Corp. 2.40% 15/03/2030 USD 100,000 80,75 Cigna Corp. 2.40% 15/03/200 USD 100,000 80,75 Cigna Corp. 2.40% 15/03/200 USD 100,000 80,75 Cigna Corp. 2.40% 15/03/20	
06/06/2047 USD 70,000 61,743 0.07 Cigna Corp. 4.80% 15/08/2038 USD 44,000 41,01	
Berkshire Hathaway Energy Co. 2.85% Citigroup, Inc., FRN 3.35% 24/04/2025 USD 1,222,000 1,184,6 15/05/2051 USD 620,000 407,733 0.46 Citigroup Inc. FRN 3.11% 08/04/2026 USD 318,000 300.7	
15/05/2051 USD 620,000 407,733 0.46 Citigroup, Inc., FRN 3.11% 08/04/2026 USD 318,000 300,7 Berkshire Hathaway Finance Corp. 2.30% Citigroup, Inc. 3.20% 21/10/2026 USD 392,000 363,3	
15/03/2027 USD 613,000 566,251 0.63 Citigroup, Inc., FRN 3.67% 24/07/2028 USD 163,000 149.70	
Berkshire Hathaway Finance Corp. 4.20%  USD 244,000 215,494 0.24 Citigroup, Inc., FRN 2.67% 29/01/2031 USD 170,000 139,4  15/08/2048 USD 244,000 215,494 0.24 Citigroup los FRN 3.98% 24/01/2020 USD 202,000 147.13	73 0.16
Berkshire Hathaway Finance Corp. 2 50% Citigroup, Inc., FRN 3.88% 24/01/2039 USD 202,000 167,1	
15/01/2051 USD 100,000 63,119 0.07 Citigroup, inc. 4.75% 18/05/2046 USD 131,000 108,3	
Berkshire Hathaway, Inc. 3.13%  15/03/2026  USD 303,000 290,723 0.32 Coca-Cola Co. (The) 2.88% 05/05/2041 USD 275,000 210,8	
BlackRock, Inc. 2.10% 25/02/2032 USD 67,000 53,837 0.06 Coca-Cola Co. (The) 2.60% 01/06/2050 USD 120,000 80.6	
Boston Properties LP 2.75% 01/10/2026 USD 81,000 73,046 0.08 Comcast Corp. 3.95% 15/10/2025 USD 707,000 692,14	
Boston Scientific Corp. 4.55% 01/03/2039 USD 100,000 89,726 0.10 Comcast Corp. 3.15% 01/03/2026 USD 200,000 190,51 Comcast Corp. 4.15% 15/10/2028 USD 99,000 95,11 Comcast Cor	
BP Capital Markets America, Inc. 3.80% 21/09/2025 USD 361,000 354,494 0.40 Comcast Corp. 4.15% 15/10/2028 USD 99,000 95,13 USD 361,000 354,494 0.40 Comcast Corp. 4.25% 15/01/2033 USD 50,000 47,1	
BP Capital Markets America, Inc. 3.41%  Comcast Corp. 3.90% 01/03/2038  USD 202,000 175,1	
11/02/2026 USD 288,000 276,812 0.31 Comcast Corp. 4.00% 01/11/2049 USD 330,000 262,8 BP Capital Markets America, Inc. 4.23% Comcast Corp. 3.45% 01/02/2050 USD 128,000 93,30	
06/11/2028 USD 130,000 125,877 0.14 Comcast Corp. 2.89% 01/11/2051 USD 361,000 233,6 BP Capital Markets America, Inc. 3.06% Conagra Brands, Inc. 4.85% 01/11/2028 USD 130,000 126,5	27 0.26
17/06/2041 USD 66,000 49,221 0.05 Consolidated Edison Co. of New York, Inc.  BP Capital Markets America, Inc. 3.00% USD 80,000 63,6.	26 0.07
24/02/2050 USD 250,000 169,601 0.19 Constellation Brands, Inc. 3.15% USD 150,000 131,44 BP Capital Markets America, Inc. 3.00% USD 150,000 99,884 0.11 Constellation Energy Generation LLC	14 0.15
1/03/2052 USD 150,000 99,884 0.11 Constellation Energy Generation LLC  Bristol-Myers Squibb Co. 4.13% 3.25% 01/06/2025 USD 511,000 489,3:  15/06/2039 USD 220,000 196,136 0.22 Costco Wholesale Corp. 1.38%	58 0.55
Bristol-Myers Squibb Co. 3.55% 20/06/2027 USD 364,000 319,0 15/03/2042 USD 259,000 210,621 0.23	82 0.36

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Costco Wholesale Corp. 1.60%					Healthpeak Properties, Inc. 3.00%				
20/04/2030 CSX Corp. 4.25% 15/03/2029	USD USD	652,000 90,000	533,473 86,444	0.60 0.10	15/01/2030 Healthpeak Properties, Inc. 2.88%	USD	120,000	102,838	0.11
CSX Corp. 4.25% 15/03/2029 CSX Corp. 4.65% 01/03/2068	USD	61,000	51,754	0.10	15/01/2031	USD	200,000	167,124	0.19
CVS Health Corp. 2.63% 15/08/2024	USD	50,000	48,005	0.05	Home Depot, Inc. (The) 2.50% 15/04/2027	USD	957,000	880,252	0.98
CVS Health Corp. 3.25% 15/08/2029	USD	80,000	71,571	0.08 0.49	Home Depot, Inc. (The) 3.30% 15/04/2040	USD	250,000	199,467	0.22
CVS Health Corp. 2.70% 21/08/2040 Danaher Corp. 2.60% 01/10/2050	USD USD	637,000 250,000	436,363 160,035	0.49	Home Depot, Inc. (The) 4.20%	asb	230,000	177,107	0.22
Danaher Corp. 2.80% 10/12/2051	USD	146,000	97,135	0.11	01/04/2043	USD	70,000	61,291	0.07
Diamondback Energy, Inc. 3.50%	HCD	120.000	105 277	0.12	Home Depot, Inc. (The) 3.13% 15/12/2049 Home Depot, Inc. (The) 3.50% 15/09/2056	USD USD	160,000 25,000	114,286 18,710	0.13 0.02
01/12/2029 Diamondback Energy, Inc. 3.13%	USD	120,000	105,277	0.12	Humana, Inc. 4.50% 01/04/2025	USD	521,000	515,012	0.57
24/03/2031	USD	172,000	142,564	0.16	Humana, Inc. 3.95% 15/08/2049	USD	150,000	118,346	0.13
Discovery Communications LLC 3.95%	HCD	100.000	150 730	0.10	Intercontinental Exchange, Inc. 4.35% 15/06/2029	USD	150,000	145,116	0.16
20/03/2028 Discovery Communications LLC 4.65%	USD	180,000	159,738	0.18	Intercontinental Exchange, Inc. 5.20%	usb	130,000	115,110	0.10
15/05/2050	USD	188,000	129,278	0.14	15/06/2062	USD	295,000	280,029	0.31
Discovery Communications LLC 4.00% 15/09/2055	USD	167,000	100,610	0.11	Kinder Morgan, Inc. 2.00% 15/02/2031 KLA Corp. 4.10% 15/03/2029	USD USD	62,000 328,000	48,083 317,373	0.05 0.35
Duke Energy Indiana LLC 2.75%	นวบ	107,000	100,010	0.11	KLA Corp. 3.30% 01/03/2050	USD	301,000	218,220	0.33
01/04/2050	USD	250,000	157,638	0.18	Kraft Heinz Foods Co. 3.00% 01/06/2026	USD	152,000	142,358	0.16
Eagle Materials, Inc. 2.50% 01/07/2031 Electronic Arts, Inc. 1.85% 15/02/2031	USD USD	576,000 545,000	450,458 428,840	0.50 0.48	Kraft Heinz Foods Co. 3.88% 15/05/2027	USD	235,000	224,529	0.25
Electronic Arts, Inc. 2.95% 15/02/2051	USD	100,000	65,032	0.07	Kraft Heinz Foods Co. 4.63% 01/10/2039 Kraft Heinz Foods Co. 5.20% 15/07/2045	USD USD	301,000 200,000	264,246 184,293	0.29 0.21
Eli Lilly & Co. 5.50% 15/03/2027	USD	200,000	207,883	0.23	Lear Corp. 3.80% 15/09/2027	USD	320,000	297,973	0.33
Emera US Finance LP 2.64% 15/06/2031	USD	51,000	39,843	0.04	Lennar Corp. 4.75% 29/11/2027	USD	250,000	240,391	0.27
Emera US Finance LP 4.75% 15/06/2046 Emerson Electric Co. 0.88% 15/10/2026	USD USD	417,000 574,000	324,426 497,326	0.36 0.56	Lowe's Cos., Inc. 3.70% 15/04/2046 Lowe's Cos., Inc. 4.05% 03/05/2047	USD	166,000	123,371 58,887	0.14 0.07
Energy Transfer LP 4.95% 15/05/2028	USD	221,000	212,198	0.24	Marathon Oil Corp. 4.40% 15/07/2027	USD USD	75,000 160,000	152,788	0.07
Energy Transfer LP 4.95% 15/06/2028	USD	48,000	46,363	0.05	Marathon Petroleum Corp. 4.75%				
Energy Transfer LP 5.40% 01/10/2047 Entergy Louisiana LLC 4.00% 15/03/2033	USD USD	363,000 397,000	308,964 357,885	0.34 0.40	15/09/2044 Marsh & McLennan Cos., Inc. 3.88%	USD	46,000	38,509	0.04
Entergy Louisiana LLC 4.20% 01/09/2048		141,000	116,123	0.40	15/03/2024	USD	822,000	810,589	0.90
Entergy Louisiana LLC 2.90% 15/03/2051	USD	115,000	74,630	0.08	Marsh & McLennan Cos., Inc. 4.75%			44.005	0.05
Enterprise Products Operating LLC 3.95% 31/01/2060	HCD	357,000	258,876	0.29	15/03/2039 Martin Marietta Materials, Inc. 4.25%	USD	50,000	46,025	0.05
Equinix, Inc. 3.20% 18/11/2029	USD USD	356,000 701,000	610,109	0.68	02/07/2024	USD	450,000	444,138	0.50
Estee Lauder Cos., Inc. (The) 3.13%					Martin Marietta Materials, Inc. 3.20%	HCD	340.000	142 525	0.18
01/12/2049	USD	100,000	72,208 313,541	0.08 0.35	15/07/2051 Marvell Technology, Inc. 2.95%	USD	240,000	162,525	0.16
Evergy, Inc. 2.45% 15/09/2024 Evergy, Inc. 2.90% 15/09/2029	USD USD	330,000 622,000	537,707	0.60	15/04/2031	USD	334,000	268,269	0.30
Expedia Group, Inc. 3.25% 15/02/2030	USD	220,000	186,709	0.21	McDonald's Corp. 3.63% 01/09/2049	USD	280,000	213,111	0.24
Exxon Mobil Corp. 2.02% 16/08/2024	USD	128,000	122,632	0.14	Microsoft Corp. 3.04% 17/03/2062 Mid-America Apartments LP 1.10%	USD	120,000	83,587	0.09
Exxon Mobil Corp. 3.29% 19/03/2027 Exxon Mobil Corp. 2.61% 15/10/2030	USD USD	196,000 123,000	188,069 107,383	0.21 0.12	15/09/2026	USD	434,000	375,451	0.42
Exxon Mobil Corp. 3.00% 16/08/2039	USD	480,000	369,226	0.41	Mid-America Apartments LP 4.20% 15/06/2028	USD	300.000	286.095	0.32
Exxon Mobil Corp. 4.11% 01/03/2046	USD	61,000	52,171	0.06	Mid-America Apartments LP 3.95%	นรม	300,000	200,093	0.32
Exxon Mobil Corp. 3.45% 15/04/2051 FedEx Corp. 2.40% 15/05/2031	USD USD	20,000	15,160 88,791	0.02 0.10	15/03/2029	USD	50,000	47,260	0.05
FedEx Corp. 3.25% 15/05/2041	USD	110,000 150,000	107,615	0.10	Mid-America Apartments LP 1.70% 15/02/2031	USD	328,000	256,313	0.29
FedEx Corp. 4.05% 15/02/2048	USD	185,000	140,525	0.16	Morgan Stanley, FRN 0.79% 22/01/2025	USD	29,000	27,464	0.03
Fisery, Inc. 3.50% 01/07/2029	USD	939,000	846,159	0.94	Morgan Stanley, FRN 3.62% 17/04/2025	USD	27,000	26,336	0.03
Florida Power & Light Co. 3.95% 01/03/2048	USD	80,000	66,432	0.07	Morgan Stanley 5.00% 24/11/2025 Morgan Stanley, FRN 2.19% 28/04/2026	USD USD	118,000 250,000	117,618 232,001	0.13 0.26
Freeport-McMoRan, Inc. 5.45%					Morgan Stanley 3.63% 20/01/2027	USD	899,000	848,675	0.95
15/03/2043 General Motors Co. 6.13% 01/10/2025	USD USD	284,000	255,950 356,810	0.29 0.40	Morgan Stanley, FRN 3.77% 24/01/2029	USD	391,000	357,861	0.40
General Motors Financial Co., Inc. 4.35%	นรม	350,000	330,610	0.40	Morgan Stanley, FRN 2.70% 22/01/2031 Morgan Stanley, FRN 3.62% 01/04/2031	USD	200,000	165,516	0.18
17/01/2027	USD	143,000	136,064	0.15	Morgan Stanley, FRN 3.62% 01/04/2031 Morgan Stanley, FRN 6.34% 18/10/2033	USD USD	170,000 340,000	148,717 355,703	0.17 0.40
General Motors Financial Co., Inc. 3.60% 21/06/2030	USD	412,000	346,390	0.39	Morgan Stanley 4.30% 27/01/2045	USD	170,000	144,523	0.16
Gilead Sciences, Inc. 3.65% 01/03/2026	USD	200,000	193,056	0.22	NVIDIA Corp. 2.00% 15/06/2031	USD	105,000	84,265	0.09
Global Payments, Inc. 1.20% 01/03/2026	USD	141,000	122,918	0.14	NVIDIA Corp. 3.50% 01/04/2050 Oracle Corp. 2.50% 01/04/2025	USD USD	250,000 330.000	189,189 311,161	0.21 0.35
Global Payments, Inc. 2.90% 15/05/2030 Global Payments, Inc. 2.90% 15/11/2031	USD	30,000	24,618	0.03 0.43	Oracle Corp. 3.80% 15/11/2037	USD	200,000	157,776	0.18
Global Payments, Inc. 4.15% 15/08/2049	USD USD	493,000 150,000	389,623 107,156	0.43	Oracle Corp. 4.10% 25/03/2061	USD	110,000	76,809	0.09
Goldman Sachs Group, Inc. (The), FRN					Otis Worldwide Corp. 2.06% 05/04/2025	USD	100,000	93,637	0.10
1.76% 24/01/2025 Goldman Sachs Group, Inc. (The) 3.50%	USD	21,000	20,097	0.02	Otis Worldwide Corp. 2.57% 15/02/2030 Otis Worldwide Corp. 3.11% 15/02/2040	USD USD	155,000 101,000	130,312 74,444	0.15 0.08
01/04/2025	USD	615,000	592,059	0.66	Otis Worldwide Corp. 3.36% 15/02/2050	USD	150,000	105,163	0.12
Goldman Sachs Group, Inc. (The), FRN 3.27% 29/09/2025	IICD	350,000	344,272	0.38	Pacific Gas & Electric Co. 4.50% 01/07/2040	USD	232,000	181,607	0.20
Goldman Sachs Group, Inc. (The) 4.25% 21/10/2025	USD	358,000 174,000	170,197	0.36	Pacific Gas & Electric Co. 4.95% 01/07/2050	USD	328,000	256,973	0.29
Goldman Sachs Group, Inc. (The) 3.85%	นรม	174,000			Pacific Gas & Electric Co. 3.50%				
26/01/2027 Goldman Sachs Group, Inc. (The), FRN	USD	125,000	119,018	0.13	01/08/2050 Pacific Gas & Electric Co. 5.25%	USD	50,000	31,471	0.04
4.22% 01/05/2029 Goldman Sachs Group, Inc. (The) 2.60%	USD	388,000	361,389	0.40	01/03/2052 Pfizer, Inc. 2.70% 28/05/2050	USD USD	55,000 200,000	45,130 136,150	0.05 0.15
07/02/2030 Goldman Sachs Group, Inc. (The), FRN	USD	230,000	191,993	0.21	Phillips 66 2.15% 15/12/2030 Pioneer Natural Resources Co. 1.90%	USD	526,000	420,660	0.47
2.38% 21/07/2032	USD	480,000	372,093	0.42	15/08/2030	USD	703,000	551,633	0.62
Goldman Sachs Group, Inc. (The), FRN 4.02% 31/10/2038	USD	340,000	278,856	0.31	Pioneer Natural Resources Co. 2.15% 15/01/2031	USD	132,000	104,690	0.12
Goldman Sachs Group, Inc. (The) 5.15% 22/05/2045	USD	75,000	67,832	0.08	PPL Capital Funding, Inc. 3.10% 15/05/2026	USD	220,000	205,875	0.23
HCA, Inc. 5.00% 15/03/2024	USD	715,000	711,079	0.79	Precision Castparts Corp. 3.25% 15/06/2025	USD	108,000	104,500	0.12
HCA, Inc. 5.88% 01/02/2029 HCA, Inc. 4.13% 15/06/2029	USD USD	150,000 145,000	150,218 132,371	0.17 0.15	Progressive Corp. (The) 4.13%	นวบ	100,000		
HCA, Inc. 3.50% 15/07/2051	USD	476,000	307,240	0.34	15/04/2047	USD	50,000	42,097	0.05

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Prudential Financial, Inc. 3.70%					UnitedHealth Group, Inc. 2.38%				
13/03/2051 Public Service Co. of Oklahoma 2.20%	USD	70,000	53,233	0.06	15/08/2024 UnitedHealth Group, Inc. 1.15%	USD	162,000	155,948	0.17
15/08/2031	USD	150,000	119,302	0.13	15/05/2026	USD	187,000	167,213	0.19
QUALCOMM, Inc. 1.30% 20/05/2028 QUALCOMM, Inc. 3.25% 20/05/2050	USD USD	143,000 50,000	121,098 36,448	0.14 0.04	UnitedHealth Group, Inc. 3.50% 15/08/2039	USD	160,000	131,212	0.15
QUALCOMM, Inc. 4.50% 20/05/2052	USD	167,000	147,153	0.16	UnitedHealth Group, Inc. 2.75%				
Quanta Services, Inc. 2.90% 01/10/2030	USD	200,000	164,670	0.18	15/05/2040 UnitedHealth Group, Inc. 3.05%	USD	730,000	531,817	0.59
Quanta Services, Inc. 2.35% 15/01/2032 Quanta Services, Inc. 3.05% 01/10/2041	USD USD	210,000 200,000	159,618 131,004	0.18 0.15	15/05/2041	USD	59,000	44,452	0.05
Quest Diagnostics, Inc. 4.70%					UnitedHealth Group, Inc. 3.25% 15/05/2051	USD	90,000	64,866	0.07
30/03/2045 Regeneron Pharmaceuticals, Inc. 1.75%	USD	210,000	176,677	0.20	VeriSign, Inc. 2.70% 15/06/2031	USD	187,000	152,986	0.17
15/09/2030 Regeneron Pharmaceuticals, Inc. 2.80%	USD	210,000	162,589	0.18	Verizon Communications, Inc. 3.40% 22/03/2041	USD	412,000	310,259	0.35
15/09/2050	USD	200,000	124,658	0.14	Verizon Communications, Inc. 2.99% 30/10/2056	USD	190,000	116,603	0.13
RELX Capital, Inc. 3.00% 22/05/2030 Republic Services, Inc. 2.50% 15/08/2024	USD USD	278,000 254,000	236,734 243,470	0.26 0.27	VICI Properties LP 5.63% 15/05/2052	USD	160,000	141,512	0.16
Republic Services, Inc. 3.95% 15/05/2028	USD	69,000	65,692	0.07	Virginia Electric & Power Co. 2.45% 15/12/2050	USD	120.000	71,536	0.08
Roper Technologies, Inc. 1.40% 15/09/2027	HCD	117.000	99,217	0.11	VMware, Inc. 1.40% 15/08/2026	USD	120,000 142,000	123,683	0.08
Roper Technologies, Inc. 4.20%	USD	117,000	99,217	0.11	VMware, Inc. 2.20% 15/08/2031	USD	410,000	310,848	0.35
15/09/2028	USD	137,000	132,164	0.15	Vulcan Materials Co. 3.50% 01/06/2030 Walmart, Inc. 3.05% 08/07/2026	USD USD	55,000 50,000	48,483 48,029	0.05 0.05
Roper Technologies, Inc. 1.75% 15/02/2031	USD	350.000	269.444	0.30	Walmart, Inc. 2.50% 22/09/2041	USD	257,000	187,681	0.03
S&P Global, Inc. 2.30% 15/08/2060	USD	218,000	119,975	0.13	Walmart, Inc. 4.05% 29/06/2048	USD	92,000	82,252	0.09
Sabine Pass Liquefaction LLC 5.63%	1165	120.000	120 220	0.16	Walmart, Inc. 2.65% 22/09/2051	USD	202,000	138,356 93.986	0.15
01/03/2025 Sabine Pass Liquefaction LLC 4.50%	USD	139,000	139,329	0.16	Walt Disney Co. (The) 2.65% 13/01/2031 Walt Disney Co. (The) 3.50% 13/05/2040	USD USD	110,000 91,000	93,986 73,386	0.10 0.08
15/05/2030	USD	419,000	389,153	0.43	Walt Disney Co. (The) 2.75% 01/09/2049	USD	122,000	80,850	0.09
Sabra Health Care LP 3.90% 15/10/2029 Sabra Health Care LP 3.20% 01/12/2031	USD	246,000	204,557	0.23	Warnermedia Holdings, Inc. 3.64%	HCD	350,000	247.250	0.27
San Diego Gas & Electric Co. 1.70% 01/10/2030	USD USD	119,000 121,000	88,668 95,891	0.10	15/03/2025 Warnermedia Holdings, Inc. 3.76% 15/03/2027	USD USD	259,000 221,000	246,350 199,462	0.27
San Diego Gas & Electric Co. 3.00%		121,000			Warnermedia Holdings, Inc. 5.39%		221,000		
15/03/2032 San Diego Gas & Electric Co. 2.95%	USD	101,000	86,365	0.10	15/03/2062 Waste Management, Inc. 2.95%	USD	341,000	249,802	0.28
15/08/2051 Sherwin-Williams Co. (The) 3.45%	USD	450,000	305,906	0.34	01/06/2041 Wells Fargo & Co. 3.75% 24/01/2024	USD USD	200,000 100,000	147,647 98,712	0.16 0.11
01/06/2027	USD	200,000	187,658	0.21	Wells Fargo & Co., FRN 2.19% 30/04/2026	USD	320,000	297,839	0.33
Sherwin-Williams Co. (The) 2.95% 15/08/2029	USD	310,000	271,578	0.30	Wells Fargo & Co. 3.00% 23/10/2026 Wells Fargo & Co., FRN 2.88% 30/10/2030	USD	377,000	348,473 626,591	0.39 0.70
Southern California Edison Co. 3.70% 01/08/2025			505,585	0.56	Wells Fargo & Co., FRN 3.07%		737,000		
Southern California Edison Co. 2.25%	USD	522,000			30/04/2041 Wells Fargo & Co. 3.90% 01/05/2045	USD USD	590,000 116,000	421,784 89,450	0.47 0.10
01/06/2030 Southern California Edison Co. 3.90%	USD	24,000	19,801	0.02	Wells Fargo & Co. 4.75% 07/12/2046 Whirlpool Corp. 4.50% 01/06/2046	USD USD	107,000 50,000	89,646 39,129	0.10 0.04
15/03/2043 Southern California Edison Co. 3.60%	USD	9,000	6,953	0.01	Zimmer Biomet Holdings, Inc. 1.45%				
01/02/2045 Southern California Edison Co. 4.00%	USD	303,000	218,108	0.24	22/11/2024 Zoetis, Inc. 2.00% 15/05/2030	USD USD	299,000 220,000	278,271 178,624	0.31 0.20
01/04/2047	USD	150,000	117,776	0.13	United States total			75,573,506	84.36
Southern California Edison Co. 3.65% 01/02/2050 Southern Co. Gas Capital Corp. 1.75%	USD	31,000	22,786	0.03	Total investments in Corporate Debt Secu	rities		89,378,602	99.77
15/01/2031 Southern Co. Gas Capital Corp. 5.15%	USD	621,000	474,582	0.53			:		
15/09/2032	USD	676,000	664,099	0.74	Total Bonds			89,378,602	99.77
Southern Power Co. 0.90% 15/01/2026	USD	131,000	115,152	0.13					
Starbucks Corp. 3.50% 15/11/2050 Sysco Corp. 3.30% 15/07/2026	USD	60,000	43,528 179,444	0.05 0.20					
Take-Two Interactive Software, Inc. 3.30% 28/03/2024	USD USD	190,000 592,000	577,771	0.64					
Take-Two Interactive Software, Inc. 3.55% 14/04/2025	USD	309,000	297,576	0.33					
Take-Two Interactive Software, Inc. 3.70% 14/04/2027		65,000	61,186	0.07					
Take-Two Interactive Software, Inc.									
4.00% 14/04/2032	USD	10,000	8,846	0.01					
Target Corp. 2.25% 15/04/2025 Target Corp. 1.95% 15/01/2027	USD USD	405,000 130,000	384,178 118,081	0.43 0.13					
Thermo Fisher Scientific, Inc. 2.80%									
15/10/2041 Thermo Fisher Scientific, Inc. 4.10%	USD	371,000	273,408	0.31					
15/08/2047 Time Warner Cable LLC 6.55%	USD	63,000	54,932	0.06					
01/05/2037 Time Warner Cable LLC 6.75%	USD	301,000	285,438	0.32					
15/06/2039 Time Warner Cable LLC 5.50%	USD	85,000	80,967	0.09					
01/09/2041 T-Mobile USA, Inc. 3.88% 15/04/2030	USD	200,000	167,038 217,854	0.19 0.24					
T-Mobile USA, Inc. 3.88% 15/04/2030 T-Mobile USA, Inc. 4.50% 15/04/2050	USD USD	240,000 245,000	217,854 202,296	0.24					
Tyson Foods, Inc. 4.00% 01/03/2026	USD	426,000	412,129	0.46					
Union Pacific Corp. 2.89% 06/04/2036	USD	78,000	61,838	0.07					
Union Pacific Corp. 3.25% 05/02/2050 Union Pacific Corp. 3.80% 06/04/2071	USD USD	201,000 54,000	146,998 39,866	0.16 0.04					
UnitedHealth Group, Inc. 3.50% 15/02/2024	USD	11,000	10,826	0.01					
UnitedHealth Group, Inc. 0.55% 15/05/2024	USD	69,000	65,131	0.07					

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class EUR Hedged	(acc)*						
EUR	109,901	USD	115,582		Bank of America Merrill Lynch	1,709	-
EUR	160,734	USD	168,563	03/01/2023		2,980	0.01
EUR	19,410,779	USD	20,696,684	02/02/2023		63,262	0.07
EUR	35,807	USD	38,245		BNP Paribas	51	-
EUR	88,110	USD	91,099	03/01/2023		2,936	-
EUR	88,893	USD	92,801	03/01/2023		2,069	-
EUR	59,181	USD	62,657	03/01/2023		504	-
EUR EUR	22,096 6,234,837	USD USD	23,489 6,617,694	03/01/2023	Morgan Stanley	94	0.04
EUR	85,695	USD	90,000		Morgan Stanley	36,433 1,458	0.04
EUR	64,187	USD	67,484		Morgan Stanley	1,020	_
EUR	88,301	USD	94,132		Morgan Stanley	107	_
EUR	1,090	USD	1,132	03/01/2023		31	_
EUR	51,902	USD	55,349	02/02/2023		160	_
EUR	13,423,187	USD	13,947,042		Standard Chartered	378,848	0.42
EUR	1,299,522	USD	1,381,661		State Street	5,253	0.01
Class GBP Hedged							
GBP	92,220	USD	109,995	03/01/2023		936	-
USD	124,413	GBP	101,763	03/01/2023		2,002	-
USD	233,093	GBP	193,525	02/02/2023		105	-
USD	141,186	GBP	116,230	03/01/2023		1,373	-
USD	131,800	GBP	108,389		Morgan Stanley	1,419	-
USD	59,168	GBP	48,514		Morgan Stanley	810	-
USD	33	GBP	27	02/02/2023		-	-
USD	17,162,166	GBP	14,249,320		State Street	21,653	0.03
USD	148,794	GBP	121,136	03/01/2023	State Street	3,079	0.01
rotal ulli ealised §	gain on Forward Currency Contracts (3)	December 2021: 0.30%)				528,292	0.59
Class EUR Hedged	(acc)*						
USD	20,653,068	EUR	19,410,779	03/01/2023	Barclays	(63,076)	(0.07)
USD	120,448	EUR	113,892		BNP Paribas	(1,103)	(0.07)
USD	110,085	EUR	104,708		BNP Paribas	(1,665)	-
USD	226,276	EUR	217,851		BNP Paribas	(6,225)	(0.01)
USD	272,384	EUR	255,446		BNP Paribas	(817)	-
USD	71,252	EUR	67,052	03/01/2023	HSBC	(309)	-
USD	156,809	EUR	147,462	03/01/2023	HSBC	(570)	-
USD	119,121	EUR	114,573	03/01/2023	HSBC	(3,157)	(0.01)
USD	1,306	EUR	1,238	03/01/2023	Morgan Stanley	(15)	-
USD	100,553	EUR	95,392		Morgan Stanley	(1,254)	-
USD	1,547,213	EUR	1,452,787	03/01/2023	Morgan Stanley	(3,273)	(0.01)
Class GBP Hedged		lico	142 701	02/01/2022	Parelays	(1 700)	
GBP GBP	118,048	USD	143,781	03/01/2023		(1,780)	(0.01)
GBP	93,729 38,583	USD USD	116,030	03/01/2023	BNP Paribas	(3,284) (323)	(0.01)
GBP	225.041	USD	46,774 271,000		Goldman Sachs	(68)	-
GBP	23,904	USD	29,493	03/01/2023		(740)	
GBP	62,754	USD	76,968	03/01/2023		(1,480)	-
GBP	92,081	USD	112,598	03/01/2023		(1,833)	
GBP	14,029,485	USD	16,903,413	03/01/2023		(27,339)	(0.03)
GBP	46,289	USD	55,731	02/02/2023		(3)	(3.03)
GBP	92,521	USD	112,195		Morgan Stanley	(901)	_
GBP	68,507	USD	83,405		State Street	(999)	-
GBP	169,915	USD	207,226		State Street	(2,836)	-
GBP	14,249,320	USD	17,175,814		State Street	(20,773)	(0.02)
USD	117,631	GBP	97,812		Morgan Stanley	(27)	
Total unrealised I	oss on Forward Currency Contracts (31	December 2021: (0.15)%)				(143,850)	(0.16)

<sup>\*</sup>Contracts entered into for share class currency hedging purpose.

Schedule of Investments (continued)

As at 31 December 2022

Financial Futures Contracts

Security Description	No. of Contracts	Currency	Underlying Exposure USD	Counterparty		Fair Value USD	% of Net Assets
United States (31 December 2021: 0.02%) US 10-Year Note, 22/03/2023 US 2-Year Note, 31/03/2023	(25) (1)	USD USD		Goldman Sachs Goldman Sachs		18,906 289	0.02
United States total					-	19,195	0.02
Total unrealised gain on Financial Futures Contracts (31 De	cember 2021: 0.02%)				-	19,195	0.02
United States (31 December 2021: (0.04)%) US 10-Year Ultra Note, 22/03/2023 US 5-Year Note, 31/03/2023	5 29	USD USD		Goldman Sachs Goldman Sachs		(7,633) (4,109)	(0.01)
United States total					-	(11,742)	(0.01)
Total unrealised loss on Financial Futures Contracts (31 De	cember 2021: (0.04)%)				-	(11,742)	(0.01)
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash, bank overdraft and margin cash						Fair Value USD 89,926,089 (155,592) (1,167,681)	% of Net Assets 100.38 (0.17) (1.30)
Undertaking for collective investment schemes (31 Decemb JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Clas				<b>Currency</b> USD	Quantity/ Nominal Value 246,200	246,200	0.27
Total Cash equivalents Other assets and liabilities						<b>246,200</b> 735,269	<b>0.27</b> 0.82
Net asset value attributable to holders of redeemable part	icipating shares					89,584,285	100.00
Analysis of total assets (Unaudited)							% of Total Assets
Transferable securities and money market instruments admi Transferable securities and money market instruments dealt Collective investment schemes Financial derivative instruments dealt in on a regulated mark OTC financial derivative instruments Other assets	in on another regulated mai						57.08 38.28 0.26 0.02 0.56 3.80

100.00

 $^{1}\!\mathrm{A}$  related party to the Fund.

**Total Assets** 

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Bonds					Pertamina Persero PT 6.45% 30/05/2044	USD	400,000	394,575	0.11
Corporate Debt Securities (31 December	2021: 12.49	%)			Pertamina Persero PT 4.18% 21/01/2050	USD	211,000	159,806	0.04
Azerbaijan (31 December 2021: 0.74%) Southern Gas Corridor CJSC 6.88%					Perusahaan Penerbit SBSN Indonesia III 4.35% 10/09/2024	USD	1,200,000	1,191,975	0.31
24/03/2026	USD	3,060,000	3,133,249	0.82	Perusahaan Penerbit SBSN Indonesia III 4.33% 28/05/2025	USD	810,000	806,039	0.21
Azerbaijan total		_	3,133,249	0.82	Perusahaan Penerbit SBSN Indonesia III 4.45% 20/02/2029	USD	400,000	392,575	0.10
Bahrain (31 December 2021: 1.66%) CBB International Sukuk Co. 5 SPC 5.62%					Perusahaan Penerbit SBSN Indonesia III 4.70% 06/06/2032	USD	314,000	309.325	0.08
12/02/2024 CBB International Sukuk Co. 5 SPC, 144A	USD	268,000	266,627	0.07	Perusahaan Perseroan Persero PT	usb	314,000	307,323	0.00
5.62% 12/02/2024 CBB International Sukuk Co. 7 SPC 6.88%	USD	582,000	579,017	0.15	Perusahaan Listrik Negara 4.13% 15/05/2027	USD	200,000	190,000	0.05
05/10/2025	USD	1,771,000	1,831,103	0.48	Perusahaan Perseroan Persero PT Perusahaan Listrik Negara 5.25%				
CBB International Sukuk Co. 7 SPC, 144A 6.88% 05/10/2025	USD	447,000	462,170	0.12	24/10/2042 Perusahaan Perseroan Persero PT	USD	200,000	167,975	0.05
CBB International Sukuk Programme Co. WLL 6.25% 14/11/2024	USD	600,000	605,250	0.16	Perusahaan Listrik Negara 6.15% 21/05/2048	USD	250,000	235,250	0.06
CBB International Sukuk Programme Co. WLL 4.50% 30/03/2027	USD	1.010.000	980,205	0.26	Perusahaan Perseroan Persero PT Perusahaan Listrik Negara 4.00%	035	230,000		
CBB International Sukuk Programme Co. SPC 3.95% 16/09/2027		, ,	1,154,217	0.30	30/06/2050	USD	334,000	237,203	0.06
CBB International Sukuk Programme Co.	USD	1,206,000			Indonesia total			4,861,958	1.27
SPC 3.88% 18/05/2029 Oil & Gas Holding Co. BSCC (The) 7.50%	USD	1,323,000	1,177,305	0.31	Ireland (31 December 2021: 0.13%)		-		
25/10/2027	USD	1,265,000	1,291,723	0.34	Vnesheconombank Via VEB Finance plc 6.80% 22/11/2025	USD	472,000	1	0.00
Bahrain total			8,347,617	2.19	Ireland total		=	1	0.00
British Virgin Islands (31 December 2021: 1. Minmetals Bounteous Finance BVI Ltd., FRN 3.38% 31/12/2049	.16%) USD	200,000	192,250	0.05	Kazakhstan (31 December 2021: 0.60%) KazMunayGas National Co. JSC 4.75%		-		
Sinopec Group Overseas Development					19/04/2027 KazMunayGas National Co. JSC 5.38%	USD	625,000	572,578	0.15
2014 Ltd. 4.38% 10/04/2024 Sinopec Group Overseas Development	USD	550,000	545,771	0.14	24/04/2030	USD	468,000	417,924	0.11
2017 Ltd. 3.63% 12/04/2027 Sinopec Group Overseas Development	USD	278,000	266,068	0.07	KazMunayGas National Co. JSC 5.75% 19/04/2047	USD	584,000	451,432	0.12
2018 Ltd. 2.95% 12/11/2029 Sinopec Group Overseas Development	USD	511,000	454,136	0.12	KazMunayGas National Co. JSC, 144A 5.75% 19/04/2047	USD	365,000	282,145	0.07
2018 Ltd. 2.70% 13/05/2030	USD	650,000	570,687	0.15	KazMunayGas National Co. JSC 6.38% 24/10/2048	USD	330,000	270,765	0.07
Sinopec Group Overseas Development 2018 Ltd. 2.30% 08/01/2031	USD	503,000	419,376	0.11	Kazakhstan total	asb	-		
SPIC MTN Co. Ltd. 1.63% 27/07/2025 State Grid Overseas Investment BVI Ltd.	USD	550,000	499,989	0.13	Malaysia (31 December 2021: 1.73%)		-	1,994,844	0.52
1.63% 05/08/2030 State Grid Overseas Investment BVI Ltd.	USD	808,000	647,426	0.17	Malaysia Sovereign Sukuk Bhd. 3.04%	1165	4/2.000	444.007	0.13
3.50% 04/05/2027 State Grid Overseas Investment BVI Ltd.,	USD	400,000	379,924	0.10	22/04/2025 Malaysia Sukuk Global Bhd. 3.18%	USD	462,000	444,906	0.12
144A 3.50% 04/05/2027	USD	300,000	284,943	0.08	27/04/2026 Petronas Capital Ltd. 3.50% 18/03/2025	USD USD	554,000 404,000	535,457 392,094	0.14 0.10
British Virgin Islands total			4,260,570	1.12	Petronas Capital Ltd. 3.50% 21/04/2030 Petronas Capital Ltd. 2.48% 28/01/2032	USD USD	1,186,000 600,000	1,081,561 495,690	0.28
Cayman Islands (31 December 2021: 0.34%	<i>5)</i>	_			Petronas Capital Ltd. 4.50% 18/03/2045	USD	677,000	600,025	0.16
DP World Salaam, FRN 6.00% 31/12/2049	USD	388,000	383,029	0.10	Petronas Capital Ltd. 4.55% 21/04/2050 Petronas Capital Ltd. 4.80% 21/04/2060	USD USD	1,218,000 704,000	1,076,773 634,832	0.28 0.17
Gaci First Investment Co. 5.25% 13/10/2032	USD	638,000	655,794	0.17	Petronas Capital Ltd. 3.40% 28/04/2061	USD	419,000	286,240	0.07
KSA Sukuk Ltd. 2.97% 29/10/2029 KSA Sukuk Ltd. 2.25% 17/05/2031	USD	399,000	361,594	0.10 0.14	Malaysia total			5,547,578	1.45
RAK Capital 3.09% 31/03/2025	USD USD	623,000 269,000	531,107 258,627	0.07	Mexico (31 December 2021: 1.57%)		-		
Sharjah Sukuk Program Ltd. 4.23% 14/03/2028	USD	251,000	238,418	0.06	Mexico City Airport Trust 5.50% 31/07/2047	USD	400,000	308,000	0.08
Sharjah Sukuk Program Ltd. 3.23% 23/10/2029	USD	272,000	239,496	0.06	Petroleos Mexicanos 4.50% 23/01/2026 Petroleos Mexicanos 6.84% 23/01/2030	USD USD	1,191,000 1,596,000	1,080,237 1,319,892	0.28 0.35
Cayman Islands total				0.70	Petroleos Mexicanos 5.95% 28/01/2031 Petroleos Mexicanos 6.70% 16/02/2032	USD USD	943,000 2.236.000	712,908 1,752,465	0.19 0.46
Chile (31 December 2021: 0.58%)		-	2,668,065	0.70	Petroleos Mexicanos 6.63% 15/06/2035	USD	633,000	456,836	0.12
Corp. Nacional del Cobre de Chile 3.00%	HCD	404.000	420 644	0.11	Petroleos Mexicanos 7.69% 23/01/2050 Petroleos Mexicanos, REG 6.70%	USD	1,379,000	953,234	0.25
30/09/2029 Corp. Nacional del Cobre de Chile 3.15%	USD	494,000	430,644	0.11	16/02/2032	USD	200,000	157,912	0.04
14/01/2030 Corp. Nacional del Cobre de Chile 4.50%	USD	700,000	615,256	0.16	Mexico total			6,741,484	1.77
01/08/2047 Corp. Nacional del Cobre de Chile 4.38%	USD	635,000	542,290	0.14	Panama (31 December 2021: 0.09%) Aeropuerto Internacional de Tocumen SA		-		
05/02/2049 Empresa de Transporte de Pasajeros	USD	484,000	406,197	0.11	5.13% 11/08/2061	USD	400,000	327,325	0.08
Metro SA 4.70% 07/05/2050	USD	413,000	345,320	0.09	Banco Nacional de Panama 2.50% 11/08/2030	USD	555,000	443,063	0.12
Chile total		=	2,339,707	0.61	Panama total		=	770,388	0.20
Hong Kong (31 December 2021: 0.18%)		_			Peru (31 December 2021: 0.22%)		-		
CNAC HK Finbridge Co. Ltd. 4.13% 19/07/2027	USD	600,000	555,942	0.15	Petroleos del Peru SA 4.75% 19/06/2032 Petroleos del Peru SA, 144A 4.75%	USD	667,000	509,221	0.13
CNAC HK Finbridge Co. Ltd. 5.13% 14/03/2028	USD	400,000	383,825	0.10	19/06/2032	USD	602,000	459,597	0.12
Hong Kong total	202	-	939,767	0.25	Peru total			968,818	0.25
Indonesia (31 December 2021: 1.27%)		-					-		
Pertamina Persero PT 1.40% 09/02/2026 Pertamina Persero PT 5.63% 20/05/2043		571,000 300,000	505,398 271,837	0.13 0.07					

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Philippines (31 December 2021: 0.07%) Power Sector Assets & Liabilities Management Corp. 7.39% 02/12/2024	USD	457,000	470,710	0.12	Brazil Government Bond 4.63% 13/01/2028 Brazil Government Bond 4.50%	USD	2,651,000	2,533,859	0.66
Philippines total		-	470,710	0.12	30/05/2029 Brazil Government Bond 3.88%	USD	1,787,000	1,653,310	0.43
Qatar (31 December 2021: 0.55%)		-	<u> </u>		12/06/2030 Brazil Government Bond 3.75%	USD	3,779,000	3,270,725	0.86
QatarEnergy Trading LLC 1.38% 12/09/2026	USD	390,000	345,223	0.09	12/09/2031 Brazil Government Bond 8.25%	USD	1,711,000	1,437,240	0.38
QatarEnergy Trading LLC 2.25% 12/07/2031	USD	1,562,000	1,290,896	0.34	20/01/2034 Brazil Government Bond 7.13%	USD	930,000	1,040,902	0.27
QatarEnergy Trading LLC 3.13% 12/07/2041	USD	309.000	236,443	0.06	20/01/2037 Brazil Government Bond 5.63%	USD	1,390,000	1,442,820	0.38
QatarEnergy Trading LLC 3.30% 12/07/2051	USD	594,000	435,402	0.11	07/01/2041	USD	1,222,000	1,030,528	0.27
Oatar total	435	-	2,307,964	0.60	Brazil Government Bond 5.00% 27/01/2045	USD	3,384,000	2,503,737	0.65
South Africa (31 December 2021: 0.84%)					Brazil Government Bond 5.63% 21/02/2047	USD	2,314,000	1,829,940	0.48
Eskom Holdings SOC Ltd. 7.13% 11/02/2025	USD	1,666,000	1,512,728	0.40	Brazil Government Bond 4.75% 14/01/2050	USD	3,743,000	2,600,917	0.68
Eskom Holdings SOC Ltd. 6.35% 10/08/2028	USD	1,121,000	1,035,174	0.27	Brazil total		=	26,984,514	7.06
South Africa total	d3D	1,121,000			Chile (31 December 2021: 1.35%)				
United Arab Emirates (31 December 2021: 0	7 6 4 96)	-	2,547,902 ————————————————————————————————————	0.67	Chile Government Bond 3.24% 06/02/2028	USD	592,000	548,451	0.14
Abu Dhabi Crude Oil Pipeline LLC 4.60% 02/11/2047		478.000	438,206	0.11	Chile Government Bond 2.45% 31/01/2031	USD	873.000	722,844	0.19
DP World Ltd. 6.85% 02/07/2037	USD USD	100,000	106,112	0.03	Chile Government Bond 2.55% 27/01/2032	USD	300,000	245,306	0.06
DP World Ltd. 5.63% 25/09/2048 MDGH GMTN RSC Ltd. 2.50% 07/11/2024	USD USD	403,000 200,000	375,621 191,163	0.10 0.05	Chile Government Bond 2.55% 27/07/2033	USD	1,150,000	899.013	0.24
MDGH GMTN RSC Ltd. 2.50% 21/05/2026 MDGH GMTN RSC Ltd. 2.88% 07/11/2029	USD USD	500,000 308,000	462,750 277,643	0.12 0.07	Chile Government Bond 3.10% 07/05/2041			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.24
MDGH GMTN RSC Ltd. 3.38% 28/03/2032 MDGH GMTN RSC Ltd. 5.50% 28/04/2033	USD	200,000	180,850 269,153	0.05 0.07	Chile Government Bond 3.86%	USD	1,821,000	1,305,771	
MDGH GMTN RSC Ltd. 3.95% 21/05/2050	USD USD	255,000 436,000	379,129	0.10	21/06/2047 Chile Government Bond 3.50%	USD	652,000	510,312	0.13
United Arab Emirates total		-	2,680,627	0.70	25/01/2050 Chile Government Bond 3.10%	USD	1,200,000	864,225	0.23
Total investments in Corporate Debt Sec	urities	-	50,581,249	13.24	22/01/2061 Chile Government Bond 3.25%	USD	344,000	213,774	0.06
·		=		13.24	21/09/2071	USD	338,000	208,039	0.05
Government Debt Securities (31 Decemb Azerbaijan (31 December 2021: 0.76%)	er 2021: 85.3	36%)			Chile total			5,517,735	1.44
Azerbaijan Government Bond 4.75% 18/03/2024	USD	1,213,000	1,198,823	0.32	China (31 December 2021: 1.00%) China Development Bank 1.00%				
Azerbaijan Government Bond 3.50% 01/09/2032	USD		1,840,942	0.48	27/10/2025 China Government Bond 0.55%	USD	500,000	451,630	0.12
	นรม	2,215,000			21/10/2025 China Government Bond 2.63%	USD	1,750,000	1,568,892	0.41
Azerbaijan total		-	3,039,765	0.80	02/11/2027 China Government Bond 3.50%	USD	200,000	187,134	0.05
Bahrain (31 December 2021: 3.03%) Bahrain Government Bond 6.13%	HED	2/2.000	261.204	0.07	19/10/2028	USD	837,000	804,985	0.21
01/08/2023 Bahrain Government Bond 7.00%	USD	262,000	261,394		China Government Bond 2.13% 03/12/2029	USD	307,000	272,684	0.07
26/01/2026 Bahrain Government Bond 7.00%	USD	1,959,000	2,003,445	0.53	China Government Bond 1.75% 26/10/2031	USD	305,000	255,251	0.07
12/10/2028 Bahrain Government Bond, 144A 7.00%	USD	699,000	701,752	0.18	Export-Import Bank of China (The) 3.63% 31/07/2024	USD	305,000	299,714	0.08
12/10/2028 Bahrain Government Bond 6.75%	USD	1,076,000	1,080,237	0.28	Export-Import Bank of China (The) 2.88% 26/04/2026	USD	411,000	393,496	0.10
20/09/2029 Bahrain Government Bond 7.38%	USD	2,765,000	2,743,917	0.72	China total		-	4,233,786	1.11
14/05/2030 Bahrain Government Bond 5.63%	USD	1,179,000	1,195,064	0.31	Colombia (31 December 2021: 5.59%)		-	-1,233,700	
30/09/2031 Bahrain Government Bond 5.45%	USD	1,147,000	1,043,627	0.27	Colombia Government Bond 4.00% 26/02/2024	USD	470,000	458,485	0.12
16/09/2032	USD	1,921,000	1,689,640	0.44	Colombia Government Bond 8.13% 21/05/2024	USD	1,019,000	1,043,711	0.27
Bahrain Government Bond 5.25% 25/01/2033	USD	1,558,000	1,326,247	0.35	Colombia Government Bond 4.50% 28/01/2026	USD	1.577.000	1,480,212	0.39
Bahrain Government Bond 5.63% 18/05/2034	USD	1,000,000	862,375	0.23	Colombia Government Bond 3.88% 25/04/2027	USD	,- ,	865,916	0.23
Bahrain Government Bond 6.00% 19/09/2044	USD	1,470,000	1,141,363	0.30	Colombia Government Bond 4.50%		981,000		
Bahrain total		=	14,049,061	3.68	15/03/2029 Colombia Government Bond 3.00%	USD	1,940,000	1,672,401	0.44
Bolivia (31 December 2021: 0.24%)		-			30/01/2030 Colombia Government Bond 3.13%	USD	1,879,000	1,435,556	0.37
Bolivia Government Bond 4.50% 20/03/2028	USD	1,548,000	1,239,658	0.32	15/04/2031 Colombia Government Bond 3.25%	USD	3,023,000	2,240,421	0.59
Bolivia total		-	1,239,658	0.32	22/04/2032 Colombia Government Bond 7.38%	USD	1,371,000	994,661	0.26
Brazil (31 December 2021: 6.32%)		-			18/09/2037 Colombia Government Bond 6.13%	USD	2,233,000	2,093,856	0.55
Brazil Government Bond 8.88% 15/04/2024	USD	519,000	536,938	0.14	18/01/2041 Colombia Government Bond 4.13%	USD	3,566,000	2,836,753	0.74
Brazil Government Bond 4.25% 07/01/2025	USD	4,674,000	4,574,093	1.20	22/02/2042	USD	200,000	124,800	0.03
Brazil Government Bond 2.88% 06/06/2025	USD	1,658,000	1,563,494	0.41	Colombia Government Bond 5.63% 26/02/2044	USD	2,384,000	1,747,472	0.46
Brazil Government Bond 6.00% 07/04/2026	USD	936,000	966,011	0.41	Colombia Government Bond 5.00% 15/06/2045	USD	4,475,000	3,070,409	0.80
01,07,2020	นวบ	730,UUU	700,011	0.23	Colombia Government Bond 5.20% 15/05/2049	USD	2,245,000	1,533,335	0.40

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Colombia Government Bond 4.13% 15/05/2051	IICD	845.000	506,630	0.13	Hungary (31 December 2021: 1.11%) Hungary Government Bond 5.38%				
Colombia Government Bond 3.88%	USD	845,000			25/03/2024 Hungary Government Bond 5.25%	USD	754,000	753,199	0.20
15/02/2061 Colombia total	USD	1,759,000	980,423	0.26	16/06/2029	USD	708,000	674,503	0.18
Costa Rica (31 December 2021: 1.21%)		-	23,085,041	6.04	Hungary Government Bond 2.13% 22/09/2031	USD	1,503,000	1,106,865	0.29
Costa Rica Government Bond 6.13%	uco	1 224 000	1.281.218	0.24	Hungary Government Bond 5.50% 16/06/2034	USD	400,000	373,700	0.10
19/02/2031 Costa Rica Government Bond 7.00%	USD	1,324,000	, - , -	0.34	Hungary Government Bond 7.63% 29/03/2041	USD	1,038,000	1,132,912	0.29
04/04/2044 Costa Rica Government Bond 7.16%	USD	1,028,000	964,907	0.25	Hungary Government Bond 3.13% 21/09/2051	USD	679,000	406,042	0.10
12/03/2045	USD	2,205,000	2,102,743	0.55	Hungary total		_	4,447,221	1.16
Costa Rica total		-	4,348,868	1.14	India (31 December 2021: 0.38%)		-		
Dominican Republic (31 December 2021: 5. Dominican Republic Government Bond					Export-Import Bank of India 3.38% 05/08/2026	USD	757,000	709,317	0.19
5.50% 27/01/2025 Dominican Republic Government Bond	USD	1,595,000	1,579,847	0.41	Export-Import Bank of India 3.25% 15/01/2030	USD	250.000	216,062	0.06
6.88% 29/01/2026 Dominican Republic Government Bond	USD	1,635,000	1,647,569	0.43	Export-Import Bank of India 2.25% 13/01/2031	USD	795,000	627,350	0.16
5.95% 25/01/2027 Dominican Republic Government Bond	USD	1,400,000	1,366,138	0.36	India total	435			
6.00% 19/07/2028 Dominican Republic Government Bond	USD	1,889,000	1,810,843	0.47	Indonesia (31 December 2021: 1.98%)		-	1,552,729	0.41
5.50% 22/02/2029 Dominican Republic Government Bond	USD	1,174,000	1,075,164	0.28	Indonesia Government Bond 5.88% 15/01/2024	USD	235,000	237,376	0.06
4.50% 30/01/2030	USD	2,953,000	2,505,067	0.66	Indonesia Government Bond, 144A 5.88% 15/01/2024		300.000	303,033	0.08
Dominican Republic Government Bond 4.88% 23/09/2032	USD	4,197,000	3,469,870	0.91	Indonesia Government Bond 4.13%		,		
Dominican Republic Government Bond 6.00% 22/02/2033	USD	1,400,000	1,258,950	0.33	15/01/2025 Indonesia Government Bond 3.50%	USD	250,000	246,902	0.07
Dominican Republic Government Bond 5.30% 21/01/2041	USD	1,058,000	814,197	0.21	11/01/2028 Indonesia Government Bond 4.10%	USD	682,000	645,470	0.17
Dominican Republic Government Bond 7.45% 30/04/2044	USD	2,136,000	1,982,875	0.52	24/04/2028 Indonesia Government Bond 2.85%	USD	611,000	597,940	0.16
Dominican Republic Government Bond 6.85% 27/01/2045	USD	2,284,000	1,973,947	0.52	14/02/2030 Indonesia Government Bond 3.85%	USD	1,485,000	1,324,249	0.35
Dominican Republic Government Bond 6.50% 15/02/2048	USD	744,000	611,149	0.16	15/10/2030 Indonesia Government Bond 2.15%	USD	500,000	468,844	0.12
Dominican Republic Government Bond 6.40% 05/06/2049				0.49	28/07/2031 Indonesia Government Bond 7.75%	USD	200,000	166,022	0.04
Dominican Republic Government Bond	USD	2,304,000	1,855,152		17/01/2038	USD	395,000	472,963	0.12
5.88% 30/01/2060	USD	3,041,000	2,222,401	0.58	Indonesia Government Bond 5.25% 17/01/2042	USD	602,000	585,746	0.15
Dominican Republic total		-	24,173,169	6.33	Indonesia Government Bond 4.63% 15/04/2043	USD	1,035,000	941,964	0.25
Egypt (31 December 2021: 1.16%) Egypt Government Bond 5.75%					Indonesia Government Bond 6.75% 15/01/2044	USD	253,000	283,704	0.07
29/05/2024 Egypt Government Bond 5.88%	USD	800,000	763,000	0.20	Indonesia Government Bond 5.95% 08/01/2046	USD	200,000	208,600	0.05
11/06/2025 Egypt Government Bond 7.50%	USD	850,000	787,312	0.21	Indonesia Government Bond 4.35% 11/01/2048	USD	690,000	593,476	0.16
31/01/2027 Egypt Government Bond 5.80%	USD	1,400,000	1,253,000	0.33	Indonesia Government Bond 4.20% 15/10/2050	USD	360,000	297,490	0.08
30/09/2027 Egypt Government Bond 6.59%	USD	632,000	521,400	0.14	Indonesia Government Bond 4.45% 15/04/2070	USD	989.000	827,160	0.22
21/02/2028 Egypt Government Bond 7.60%	USD	1,247,000	1,017,864	0.27	Indonesia total	นรม	969,000 -		
01/03/2029	USD	1,400,000	1,141,000	0.30			-	8,200,939	2.15
Egypt Government Bond 5.88% 16/02/2031	USD	1,000,000	693,625	0.18	Iraq (31 December 2021: 0.85%) Iraq Government Bond 5.80%	uch	2 520 275	2 210 420	0.71
Egypt Government Bond 7.05% 15/01/2032	USD	1,200,000	874,350	0.23	15/01/2028	USD	2,520,375 -	2,318,430	0.61
Egypt Government Bond 7.63% 29/05/2032	USD	800,000	590,400	0.15	Iraq total		_	2,318,430	0.61
Egypt Government Bond 7.30% 30/09/2033	USD	1,200,000	852,000	0.22	Ivory Coast (31 December 2021: 0.35%) Ivory Coast Government Bond 6.13%				0.30
Egypt Government Bond 8.50% 31/01/2047	USD	1,811,000	1,195,260	0.31	15/06/2033	USD	1,659,000 –	1,476,510	0.39
Egypt Government Bond 7.90% 21/02/2048	USD	600,000	373,500	0.10	Ivory Coast total		_	1,476,510	0.39
Egypt Government Bond 8.70% 01/03/2049			657,500	0.17	Jamaica (31 December 2021: 1.60%) Jamaica Government Bond 6.75%				
Egypt Government Bond 8.88%	USD	1,000,000			28/04/2028 Jamaica Government Bond 8.00%	USD	2,010,000	2,121,555	0.56
29/05/2050 Egypt Government Bond 7.50%	USD	1,400,000	932,750	0.24	15/03/2039 Jamaica Government Bond 7.88%	USD	1,626,000	1,895,611	0.50
16/02/2061	USD	1,035,000	631,350	0.16	28/07/2045	USD	2,537,000	2,843,501	0.74
Egypt total		-	12,284,311	3.21	Jamaica total			6,860,667	1.80
Gabon (31 December 2021: 0.25%) Gabon Government Bond 6.63%					Jordan (31 December 2021: 1.19%) Jordan Government Bond 6.13%		-		
06/02/2031	USD	1,331,000	1,086,262	0.28	29/01/2026 Jordan Government Bond 5.75%	USD	938,000	924,985	0.24
Gabon total		-	1,086,262	0.28	31/01/2027	USD	1,391,000	1,336,490	0.35
Guatemala (31 December 2021: 0.00%) Guatemala Government Bond 6.13%									
01/06/2050	USD	1,907,000	1,787,574	0.47					
Guatemala total		-	1,787,574	0.47					

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Jordan Government Bond 5.85% 07/07/2030	HCD	1 007 000	1,681,553	0.44	Oman Government Bond 6.00% 01/08/2029	HCD	20// 000	2,065,096	0.54
Jordan Government Bond 7.38% 10/10/2047	USD USD	1,887,000 1,352,000	1,157,059	0.30	Oman Government Bond 6.25% 25/01/2031	USD USD	2,066,000	2,065,096	0.54
Jordan total	นรม	1,552,000 -			Oman Government Bond 7.38% 28/10/2032	USD	1,254,000	1,358,082	0.36
Kazakhstan (31 December 2021: 0.75%)		-	5,100,087	1.33	Oman Government Bond 6.50% 08/03/2047	USD	1,855,000	1,683,412	0.44
Kazakhstan Government Bond 3.88% 14/10/2024	USD	522,000	524,871	0.14	Oman Government Bond 6.75% 17/01/2048	USD	3,405,000	3,176,865	0.83
Kazakhstan Government Bond 5.13% 21/07/2025	USD	1.111.000	1,149,399	0.30	Oman Government Bond 7.00% 25/01/2051	USD	1.101.000	1,060,607	0.28
Kazakhstan Government Bond 4.88% 14/10/2044	USD	417,000	372,512	0.10	Oman Sovereign Sukuk Co. 4.40% 01/06/2024	USD	2,613,000	2,564,006	0.28
Kazakhstan Government Bond 6.50% 21/07/2045	USD	700,000	727,256	0.19	Oman Sovereign Sukuk Co. 5.93% 31/10/2025	USD	1,260,000	1,275,750	0.33
Kazakhstan total		-	2,774,038	0.73	Oman Sovereign Sukuk Co. 4.88% 15/06/2030	USD	2,222,000	2,146,035	0.56
Kenya (31 December 2021: 1.73%)		-			Oman total	นรม	2,222,000 -		
Kenya Government Bond 6.88% 24/06/2024	USD	2,729,000	2,520,914	0.66	Panama (31 December 2021: 1.79%)		-	27,219,240 ————————————————————————————————————	7.12
Kenya Government Bond 7.25% 28/02/2028	USD	1,554,000	1,367,520	0.36	Panama Government Bond 4.00% 22/09/2024	USD	235,000	229,610	0.06
Kenya Government Bond 8.00% 22/05/2032	USD	1,859,000	1,594,093	0.42	Panama Government Bond 3.75% 16/03/2025	USD	200,000	193,162	0.05
Kenya Government Bond 6.30% 23/01/2034	USD	1,060,000	818,850	0.21	Panama Government Bond 3.16% 23/01/2030	USD	970,000	832,866	0.22
Kenya Government Bond 8.25% 28/02/2048	USD	1,385,000	1,076,837	0.28	Panama Government Bond 2.25% 29/09/2032	USD	1,059,000	784,190	0.20
Kenya total		-	7,378,214	1.93	Panama Government Bond 6.70% 26/01/2036	USD	954,000	998.003	0.26
Kuwait (31 December 2021: 0.43%)		-			Panama Government Bond 4.50% 15/05/2047	USD	250,000	191,688	0.05
Kuwait Government Bond 3.50% 20/03/2027	USD	2,006,000	1,944,316	0.51	Panama Government Bond 4.50% 16/04/2050	USD	790,000	595,858	0.16
Kuwait total		-	1,944,316	0.51	Panama Government Bond 4.30% 29/04/2053	USD	1,029,000	748,790	0.20
Mexico (31 December 2021: 1.90%) Mexico Government Bond 4.13%		-			Panama Government Bond 4.50% 01/04/2056	USD	2,224,000	1,630,887	0.43
21/01/2026  Mexico Government Bond 4.15%	USD	425,000	416,500	0.11	Panama Government Bond 3.87% 23/07/2060	USD	200,000	128,850	0.03
28/03/2027 Mexico Government Bond 3.75%	USD	660,000	644,490	0.17	Panama total	dob	-	6,333,904	1.66
11/01/2028 Mexico Government Bond 4.50%	USD	637,000	600,054	0.16	Paraguay (31 December 2021: 0.98%)		-		1.00
22/04/2029 Mexico Government Bond 3.25%	USD	769,000	734,395	0.19	Paraguay Government Bond 4.95% 28/04/2031	USD	1,335,000	1,288,525	0.34
16/04/2030 Mexico Government Bond 2.66%	USD	524,000	455,487	0.12	Paraguay Government Bond 6.10% 11/08/2044	USD	946,000	906,564	0.24
24/05/2031 Mexico Government Bond 4.75%	USD	245,000	197,960	0.05	Paraguay Government Bond 5.40% 30/03/2050	USD	2,028,000	1,741,291	0.45
27/04/2032 Mexico Government Bond 6.05%	USD	200,000	187,038	0.05	Paraguay total		-	3,936,380	1.03
11/01/2040 Mexico Government Bond 4.75%	USD	604,000	586,182	0.15	Peru (31 December 2021: 1.79%)		-		
08/03/2044 Mexico Government Bond 5.55%	USD	206,000	165,997	0.04	Peru Government Bond 7.35% 21/07/2025	USD	898,000	939,420	0.25
21/01/2045 Mexico Government Bond 4.60%	USD	870,000	780,988	0.20	Peru Government Bond 2.39% 23/01/2026	USD	391,000	359,549	0.09
23/01/2046 Mexico Government Bond 4.35%	USD	600,000	465,862	0.12	Peru Government Bond 4.13% 25/08/2027	USD	148,000	141,830	0.04
15/01/2047	USD	700,000	524,038	0.14	Peru Government Bond 2.78% 23/01/2031	USD	279,000	230,663	0.06
Mexico Government Bond 4.40% 12/02/2052 Mexico Government Bond 3.77%	USD	450,000	331,650	0.09	Peru Government Bond 1.86% 01/12/2032	USD	860,000	627,693	0.16
24/05/2061  Mexico Government Bond 3.75%	USD	200,000	126,663	0.03	Peru Government Bond 8.75% 21/11/2033	USD	1,000,000	1,219,875	0.32
19/04/2071 Mexico Government Bond 5.75%	USD	846,000	527,058	0.14	Peru Government Bond 3.00% 15/01/2034	USD	127,000	99,997	0.03
12/10/2110	USD	1,080,000	908,415	0.24	Peru Government Bond 6.55% 14/03/2037	USD	359,000	378,700	0.10
Mexico total			7,652,777	2.00	Peru Government Bond 3.30% 11/03/2041	USD	1,034,000	753,398	0.20
Morocco (31 December 2021: 0.96%) Morocco Government Bond 3.00%		_			Peru Government Bond 5.63% 18/11/2050	USD	904,000	894,847	0.23
15/12/2032 Morocco Government Bond 4.00%	USD	1,858,000	1,470,491	0.39	Peru Government Bond 2.78% 01/12/2060	USD	485,000	283,665	0.07
15/12/2050	USD	1,413,000	961,546	0.25	Peru Government Bond 3.60% 15/01/2072	USD	762,000	495,681	0.13
Morocco total		_	2,432,037	0.64	Peru Government Bond 3.23% 28/07/2121	USD	740,000	431,420	0.11
Oman (31 December 2021: 5.65%) Oman Government Bond 4.88%				_	Peru total		-	6,856,738	1.79
01/02/2025 Oman Government Bond 4.75%	USD	1,258,000	1,232,290	0.32	Philippines (31 December 2021: 2.17%) Philippines Government Bond 4.20%		-		
15/06/2026 Oman Government Bond 5.38%	USD	2,169,000	2,090,780	0.55	21/01/2024	USD	211,000	208,913	0.06
08/03/2027 Oman Government Bond 6.75%	USD	2,200,000	2,149,538	0.56	Philippines Government Bond 10.63% 16/03/2025	USD	140,000	158,040	0.04
28/10/2027 Oman Government Bond 5.63%	USD	1,400,000	1,448,388	0.38	Philippines Government Bond 5.50% 30/03/2026	USD	806,000	825,231	0.22
17/01/2028	USD	3,000,000	2,956,500	0.77	Philippines Government Bond 3.00% 01/02/2028	USD	200,000	186,022	0.05

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Philippines Government Bond 3.75% 14/01/2029	USD	533,000	508,407	0.13	Saudi Arabia Government Bond 2.50% 03/02/2027	USD	280,000	259,700	0.07
Philippines Government Bond 9.50% 02/02/2030	USD	540,000	685,859	0.18	Saudi Arabia Government Bond 3.63% 04/03/2028	USD	950,000	904,875	0.24
Philippines Government Bond 2.46% 05/05/2030	USD	547,000	474,583	0.12	Saudi Arabia Government Bond 4.38% 16/04/2029	USD	598,000	589,030	0.15
Philippines Government Bond 7.75% 14/01/2031	USD	445,000	529,599	0.14	Saudi Arabia Government Bond 4.50% 17/04/2030	USD	1.000.000	988,750	0.26
Philippines Government Bond 1.65% 10/06/2031	USD	450,000	357,800	0.09	Saudi Arabia Government Bond 3.25% 22/10/2030	USD	752,000	684,461	0.18
Philippines Government Bond 6.38% 15/01/2032				0.16	Saudi Arabia Government Bond 2.75%		598.000		0.13
Philippines Government Bond 6.38%	USD	539,000	599,697		03/02/2032 Saudi Arabia Government Bond 4.50%	USD		519,811	
23/10/2034 Philippines Government Bond 5.00%	USD	402,000	445,259	0.12	26/10/2046 Saudi Arabia Government Bond 4.63%	USD	1,161,000	1,024,075	0.27
13/01/2037 Philippines Government Bond 3.95%	USD	248,000	240,587	0.06	04/10/2047 Saudi Arabia Government Bond 5.00%	USD	592,000	527,176	0.14
20/01/2040 Philippines Government Bond 3.70%	USD	1,142,000	970,826	0.25	17/04/2049 Saudi Arabia Government Bond 5.25%	USD	640,000	599,720	0.16
01/03/2041 Philippines Government Bond 3.70%	USD	1,020,000	831,412	0.22	16/01/2050 Saudi Arabia Government Bond 3.25%	USD	689,000	675,220	0.18
02/02/2042 Philippines Government Bond 2.65%	USD	255,000	207,216	0.05	17/11/2051 Saudi Arabia Government Bond 3.75%	USD	265,000	190,353	0.05
10/12/2045 Philippines Government Bond 3.20%	USD	1,135,000	760,575	0.20	21/01/2055 Saudi Arabia Government Bond 3.45%	USD	546,000	428,371	0.11
06/07/2046 Philippines Government Bond 4.20%	USD	600,000	435,066	0.11	02/02/2061	USD	781,000	556,121	0.14
29/03/2047	USD	217,000	184,084	0.05	Saudi Arabia total			10,504,690	2.75
Philippines total Poland (31 December 2021: 0.56%)		-	8,609,176	2.25	Senegal (31 December 2021: 0.00%) Senegal Government Bond 6.25% 23/05/2033	USD	1,250,000	1,028,359	0.27
Poland Government Bond 4.00% 22/01/2024	USD	328,000	323,654	0.09	Senegal Government Bond 6.75% 13/03/2048	USD	1,611,000	1,132,030	0.29
Poland Government Bond 3.25% 06/04/2026	USD	856,000	820,315	0.21	Senegal total		-	2,160,389	0.56
Poland Government Bond 5.50% 16/11/2027 Poland Government Bond 5.75%	USD	115,000	117,524	0.03	Serbia (31 December 2021: 0.30%) Serbia Government Bond 2.13%		-		
16/11/2032	USD	518,000	548,754	0.14	01/12/2030	USD	1,679,000	1,200,800	0.31
Poland total			1,810,247	0.47	Serbia total		_	1,200,800	0.31
Qatar (31 December 2021: 2.26%) Qatar Government Bond 3.38%	1160	400.000	407 410	0.13	South Africa (31 December 2021: 4.52%) South Africa Government Bond 4.67% 17/01/2024	USD	966,000	949,578	0.25
14/03/2024 Qatar Government Bond 3.40%	USD	498,000	487,418	0.13	South Africa Government Bond 5.88% 16/09/2025	USD	3,183,000	3,185,586	0.83
16/04/2025 Qatar Government Bond 3.25%	USD	200,000	193,538	0.05	South Africa Government Bond 4.88%				0.03
02/06/2026 Qatar Government Bond 4.50%	USD	584,000	561,114	0.15	14/04/2026 South Africa Government Bond 4.85%	USD	440,000	424,545	
23/04/2028 Qatar Government Bond 4.00%	USD	646,000	650,037	0.17	27/09/2027 South Africa Government Bond 4.30%	USD	906,000	858,322	0.22
14/03/2029 Qatar Government Bond 3.75%	USD	1,056,000	1,036,398	0.27	12/10/2028 South Africa Government Bond 4.85%	USD	2,896,000	2,576,173	0.67
16/04/2030 Oatar Government Bond 6.40%	USD	788,000	761,307	0.20	30/09/2029 South Africa Government Bond 5.88%	USD	2,653,000	2,356,693	0.62
20/01/2040 Qatar Government Bond 4.63%	USD	200,000	233,163	0.06	22/06/2030 South Africa Government Bond 5.88%	USD	2,102,000	1,951,970	0.51
02/06/2046 Oatar Government Bond, 144A 4.63%	USD	374,000	351,864	0.09	20/04/2032 South Africa Government Bond 5.38%	USD	1,213,000	1,090,184	0.29
02/06/2046	USD	276,000	259,664	0.07	24/07/2044 South Africa Government Bond 5.00%	USD	1,243,000	935,202	0.25
Qatar Government Bond 5.10% 23/04/2048	USD	646,000	646,121	0.17	12/10/2046 South Africa Government Bond 5.65%	USD	1,736,000	1,211,728	0.32
Qatar Government Bond, 144A 5.10% 23/04/2048	USD	915,000	915,172	0.24	27/09/2047 South Africa Government Bond 5.75%	USD	2,182,000	1,603,770	0.42
Qatar Government Bond 4.82% 14/03/2049	USD	1,516,000	1,466,540	0.38	30/09/2049 South Africa Government Bond 7.30%	USD	4,013,000	2,939,522	0.77
Qatar Government Bond, 144A 4.82% 14/03/2049	USD	404,000	390,819	0.10	20/04/2052	USD	1,760,000	1,507,000	0.39
Qatar Government Bond 4.40% 16/04/2050	USD	696,000	633,708	0.17	South Africa total			21,590,273	5.65
Qatar total		-	8,586,863	2.25	Trinidad and Tobago (31 December 2021: ( Trinidad and Tobago Government Bond 4.50% 04/08/2026		1 255 000	1 326 037	0.35
Romania (31 December 2021: 0.79%) Romania Government Bond 3.00% 27/02/2027	USD	836,000	739,494	0.20	Trinidad and Tobago total	USD	1,355,000	1,326,037 	0.35
Romania Government Bond 3.00% 14/02/2031	USD	916,000	719,804	0.19	<i>Tunisia (31 December 2021: 0.20%)</i> Tunisian Republic 5.75% 30/01/2025	USD	1,345,000	913,591	0.24
Romania Government Bond 6.13% 22/01/2044	USD	638,000	586,282	0.15	Tunisia total		,	913,591	0.24
Romania Government Bond 5.13% 15/06/2048	USD	1,544,000	1,225,840	0.32	Turkey (31 December 2021: 7.28%)		-	713,371	
Romania Government Bond 4.00% 14/02/2051	USD	184,000	121,417	0.03	Hazine Mustesarligi Varlik Kiralama A/S 4.49% 25/11/2024 Hazine Mustesarligi Varlik Kiralama A/S,	USD	352,000	335,126	0.09
Romania total			3,392,837	0.89	144A 4.49% 25/11/2024	USD	300,000	285,619	0.07
Saudi Arabia (31 December 2021: 2.94%) Saudi Arabia Government Bond 4.00%		-			Hazine Mustesarligi Varlik Kiralama A/S 9.76% 13/11/2025	USD	1,200,000	1,254,000	0.33
17/04/2025 Saudi Arabia Government Bond 3.25%	USD	1,455,000	1,436,812	0.38	Hazine Mustesarligi Varlik Kiralama A/S 5.13% 22/06/2026	USD	1,295,000	1,183,954	0.31
26/10/2026	USD	1,173,000	1,120,215	0.29	Hazine Mustesarligi Varlik Kiralama A/S 7.25% 24/02/2027	USD	1,176,000	1,141,676	0.30

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Turkey Government Bond 5.75%					Uruguay Government Bond 7.63%				
22/03/2024 Turkey Government Bond 6.35%	USD	574,000	567,650	0.15	21/03/2036 Uruguay Government Bond 5.10%	USD	381,000	482,536	0.13
10/08/2024 Turkey Government Bond 5.60%	USD	1,822,000	1,798,428	0.47	18/06/2050 Uruguay Government Bond 4.98%	USD	1,919,028	1,892,162	0.49
14/11/2024 Turkey Government Bond 7.38%	USD	2,032,000	1,976,120	0.52	20/04/2055	USD	1,012,000	974,050	0.25
05/02/2025 Turkey Government Bond 6.38%	USD	1,850,000	1,854,625	0.49	Uruguay total			5,173,892	1.35
14/10/2025 Turkey Government Bond 4.25%	USD	864,000	829,440	0.22	Vietnam (31 December 2021: 0.28%) Vietnam Government Bond 4.80%				
14/04/2026 Turkey Government Bond 4.88%	USD	1,428,000	1,270,920	0.33	19/11/2024	USD	1,201,000	1,171,107	0.31
09/10/2026 Turkey Government Bond 6.00%	USD	1,842,000	1,643,985	0.43	Vietnam total			1,171,107	0.31
25/03/2027 Turkey Government Bond 8.60%	USD	1,976,000	1,805,570	0.47	Total investments in Government Deb	ot Securities		324,073,880	84.82
24/09/2027	USD	200,000	199,500	0.05	Total Bonds			374,655,129	98.06
Turkey Government Bond 9.88% 15/01/2028	USD	262,000	271,170	0.07				374,055,129	96.00
Turkey Government Bond 5.13% 17/02/2028	USD	1,753,000	1,511,963	0.40					
Turkey Government Bond 6.13% 24/10/2028	USD	1,407,000	1,254,253	0.33					
Turkey Government Bond 7.63% 26/04/2029	USD	1,400,000	1,321,250	0.35					
Turkey Government Bond 11.88% 15/01/2030	USD	431,000	512,351	0.13					
Turkey Government Bond 5.25% 13/03/2030	USD	1,320,000	1,062,600	0.28					
Turkey Government Bond 5.95% 15/01/2031	USD	2.375.000	1,971,250	0.52					
Turkey Government Bond 5.88% 26/06/2031	USD	359,000	294,380	0.08					
Turkey Government Bond 8.00%									
14/02/2034 Turkey Government Bond 6.88%	USD	606,000	608,575	0.16					
17/03/2036 Turkey Government Bond 7.25%	USD	1,539,000	1,277,370	0.33					
05/03/2038 Turkey Government Bond 6.75%	USD	246,000	220,216	0.06					
30/05/2040 Turkey Government Bond 6.00%	USD	1,378,000	1,083,452	0.28					
14/01/2041 Turkey Government Bond 4.88%	USD	1,486,000	1,073,635	0.28					
16/04/2043 Turkey Government Bond 5.75%	USD	847,000	550,179	0.14					
11/05/2047	USD	3,279,000	2,228,285	0.58					
Turkey total			31,387,542	8.22					
United Arab Emirates (31 December 2021: Abu Dhabi Government Bond 2.13%	1.74%)								
30/09/2024 Abu Dhabi Government Bond 3.13%	USD	480,000	458,790	0.12					
03/05/2026 Abu Dhabi Government Bond 3.13%	USD	1,124,000	1,077,846	0.28					
11/10/2027 Abu Dhabi Government Bond 2.50%	USD	844,000	805,492	0.21					
30/09/2029 Abu Dhabi Government Bond 3.13%	USD	370,000	331,335	0.09					
16/04/2030 Abu Dhabi Government Bond 1.70%	USD	800,000	741,400	0.19					
02/03/2031	USD	637,000	526,242	0.14					
Abu Dhabi Government Bond 4.13% 11/10/2047	USD	750,000	660,141	0.17					
Abu Dhabi Government Bond 3.13% 30/09/2049	USD	452,000	333,011	0.09					
Abu Dhabi Government Bond, 144A 3.13% 30/09/2049	USD	328,000	241,654	0.06					
Abu Dhabi Government Bond 2.70% 02/09/2070	USD	1,186,000	731,465	0.19					
Emirate of Dubai Government Bonds 3.90% 09/09/2050	USD	400,000	284,950	0.08					
Finance Department Government of Sharjah 4.00% 28/07/2050	USD	200,000	130,725	0.04					
United Arab Emirates Government Bond 2.00% 19/10/2031	USD	898,000	751,963	0.20					
United Arab Emirates Government Bond 4.05% 07/07/2032	USD	319,000	313,876	0.08					
United Arab Emirates Government Bond 2.88% 19/10/2041	USD	300,000	230,119	0.06					
United Arab Emirates Government Bond 3.25% 19/10/2061			313,456	0.08					
United Arab Emirates total	USD	426,000							
Uruguay (31 December 2021: 1.43%)			7,932,465	2.08					
Uruguay Government Bond 4.38% 27/10/2027	USD	502,000	506,016	0.13					
Uruguay Government Bond 4.38%									
23/01/2031 Uruguay Government Bond 5.75%	USD	1,216,000	1,210,528	0.32					
28/10/2034	USD	100,000	108,600	0.03					

Schedule of Investments (continued)

As at 31 December 2022

Forward Currency Contracts

Currency Purchased	Amount Purchased	Currency Sold	Amount Sold	Maturity Date	Counterparty	Fair Value USD	% of Net Assets
Class CHF Hedge	d (acc)*						
CHF	335,147	USD	357,854	03/01/2023	BNP Paribas	4,388	-
CHF	259,453	USD	279,092		BNP Paribas	2,293	-
CHF	167,564	USD	178,586	03/01/2023		2,525	-
CHF	9,827,444	USD	10,656,588		Morgan Stanley	1,586	-
CHF	133,804	USD	144,577		Standard Chartered	45	
CHF	10,357,978	USD	10,949,164		State Street	246,229	0.07
USD	224,207	CHF	207,131		BNP Paribas	330	-
USD USD	10,623,459 134,298	CHF CHF	9,827,444 124,214		Morgan Stanley Morgan Stanley	1,493 42	-
USD	1,919	CHF	1,773		State Street	3	-
Class EUR Hedge	d (acc)*						
EUR	4,528,274	USD	4,748,846	03/01/2023	Barclays	83,952	0.02
EUR	247,520,713	USD	263,918,218	02/02/2023		806,703	0.21
EUR	1,080,839	USD	1,122,726		BNP Paribas	30,799	0.01
EUR	648,895	USD	670,055		BNP Paribas	22,478	0.01
EUR	422,420	USD	444,150		BNP Paribas	6,678	-
EUR	539,201	USD	569,457		BNP Paribas	6,004	-
EUR	1,629,002	USD	1,731,092		Goldman Sachs	7,460	-
EUR	3,254,917	USD	3,469,858		Morgan Stanley	3,950	-
EUR	3,843	USD	4,056		Morgan Stanley	46	-
EUR	464	USD	495		Morgan Stanley	1	-
EUR	1,652	USD	1,716	03/01/2023		47	-
EUR	1,232	USD	1,299	03/01/2023		16	-
EUR	5,230	USD	5,578	02/02/2023		16	
EUR	245,624,705	USD	255,210,479		Standard Chartered	6,932,371	1.82
EUR USD	1,876 37,404	USD EUR	1,963 35,020		State Street Morgan Stanley	39 29	-
Class GBP Hedge	d (dist)*						
USD	75,158	GBP	61,873	03/01/2023	HSBC	731	-
USD	5,805,509	GBP	4,820,170		State Street	7,324	-
Class MXN Hedge MXN USD Total unrealised	ed (acc)*  465,395 1,731,221 gain on Forward Currency Contracts (3)	USD MXN December 2021: 0.85%)	23,740 33,506,066		Morgan Stanley Goldman Sachs	142 11,837 8,179,557	2.14
GBP	18,326	USD	22,459	06/01/2023	HSBC	(414)	-
GBP  Class CHF Hedge		USD	22,459	06/01/2023	HSBC	(414)	-
Class CHF Hedge	<b>d (acc)*</b> 1,650	CHF	1,548	03/01/2023	Bank of America Merrill Lynch	(23)	-
Class CHF Hedge USD USD	d (acc)* 1,650 445,940	CHF CHF	1,548 417,141	03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas	(23) (4,926)	-
Class CHF Hedge USD USD USD	d (acc)* 1,650 445,940 435,446	CHF CHF CHF	1,548 417,141 410,283	03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas	(23) (4,926) (8,007)	- - -
Class CHF Hedged USD USD USD USD	d (acc)*  1,650 445,940 435,446 1,300	CHF CHF CHF CHF	1,548 417,141 410,283 1,222	03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley	(23) (4,926) (8,007) (20)	- - - -
Class CHF Hedged USD USD USD USD USD USD	d (acc)*  1,650 445,940 435,446 1,300 641	CHF CHF CHF CHF CHF	1,548 417,141 410,283 1,222 593	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC	(23) (4,926) (8,007) (20) (1)	- - - - -
Class CHF Hedged USD USD USD USD USD USD USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013	CHF CHF CHF CHF	1,548 417,141 410,283 1,222	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley	(23) (4,926) (8,007) (20)	-
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013 d (acc)*	CHF CHF CHF CHF CHF CHF	1,548 417,141 410,283 1,222 593 3,739	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street	(23) (4,926) (8,007) (20) (1) (29)	- (0.21)
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013 d (acc)*  263,362,039	CHF CHF CHF CHF CHF CHF	1,548 417,141 410,283 1,222 593 3,739 247,520,713	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street	(23) (4,926) (8,007) (20) (1) (29)	(0.21)
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154	CHF CHF CHF CHF CHF CHF EUR EUR	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street Barclays BNP Paribas	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021)	(0.21)
Class CHF Hedged USD USD USD USD USD USD USD USD Class EUR Hedged USD USD USD USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494	CHF CHF CHF CHF CHF EUR EUR EUR	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street Barclays BNP Paribas BNP Paribas	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927)	(0.21)
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900	CHF CHF CHF CHF CHF EUR EUR EUR EUR	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas BNP Paribas BNP Paribas BNP Paribas BNP Paribas	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770)	- - -
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141	CHF CHF CHF CHF CHF CHF EUR EUR EUR EUR EUR	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005 2,430,015	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas BNP Paribas BNP Paribas BNP Paribas BNP Paribas BNP Paribas	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291)	(0.21)
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010	CHF CHF CHF CHF CHF EUR EUR EUR EUR EUR EUR	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005 2,430,015 406,973	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249)	- - -
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692	CHF	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662	03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14)	- - -
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351	CHF CHF CHF CHF CHF CHF CHF CHF CHF EUR	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026	03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 02/02/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas MOrgan Stanley Morgan Stanley	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148)	- - -
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692	CHF	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662	03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14)	- - -
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237	CHF	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650	03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas Morgan Stanley Morgan Stanley Morgan Stanley	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148) (7,069)	- - -
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237	CHF	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650	03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street Barclays BNP Paribas BNP Paribas BNP Paribas BNP Paribas BNP Paribas BNP Paribas Morgan Stanley Morgan Stanley Morgan Stanley State Street	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148) (7,069)	- - -
Class CHF Hedged USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237  d (dist)*	CHF	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650 224	03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas BNP Stanley Morgan Stanley Morgan Stanley State Street  HSBC	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148) (7,069) (2)	- - -
Class CHF Hedges USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237  d (dist)*  51,896 64,583 4,765,564	CHF	1,548 417,141 410,283 1,222 593 3,739  247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650 224  63,458 79,210 5,741,786	03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas SNP Paribas BNP Paribas SNP Paribas SNP Paribas SNP Earibas SNP Ea	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148) (7,069) (2)	(0.02) - - - - - -
Class CHF Hedger USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237  d (dist)*  51,896 64,583 4,765,564 4,820,170	CHF	1,548 417,141 410,283 1,222 593 3,739  247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650 224  63,458 79,210	03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas BNP Paribas BNP Paribas BNP Paribas BNP Paribas BNP Paribas Morgan Stanley Morgan Stanley Morgan Stanley State Street  HSBC HSBC	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148) (7,069) (2)	(0.02) - - - - - -
Class CHF Hedger USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237  d (dist)*  51,896 64,583 4,765,564 4,820,170  ed (acc)*	CHF	1,548 417,141 410,283 1,222 593 3,739 247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650 224 63,458 79,210 5,741,786 5,810,125	03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas Horgan Stanley Morgan Stanley Morgan Stanley State Street  HSBC HSBC HSBC State Street	(23) (4,926) (8,007) (20) (1) (29) (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148) (7,069) (2) (1,033) (1,523) (9,287) (7,027)	(0.02) - - - - - -
Class CHF Hedger USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237  d (dist)*  51,896 64,583 4,765,564 4,820,170  ed (acc)*	CHF	1,548 417,141 410,283 1,222 593 3,739  247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650 224  63,458 79,210 5,741,786 5,810,125	03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas HOrgan Stanley Morgan Stanley Morgan Stanley State Street  HSBC HSBC HSBC State Street  Goldman Sachs	(23) (4,926) (8,007) (20) (1) (29)  (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148) (7,069) (2)  (1,033) (1,523) (9,287) (7,027)	(0.02)
Class CHF Hedger USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237  d (dist)*  51,896 64,583 4,765,564 4,820,170  ed (acc)*  419,329 33,506,066	CHF	1,548 417,141 410,283 1,222 593 3,739  247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650 224  63,458 79,210 5,741,786 5,810,125	03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas HOrgan Stanley Morgan Stanley Morgan Stanley State Street  HSBC HSBC HSBC State Street  Goldman Sachs Goldman Sachs	(23) (4,926) (8,007) (20) (1) (29)  (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148) (7,069) (2)  (1,033) (1,523) (9,287) (7,027)	(0.02)
Class CHF Hedger USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237  d (dist)*  51,896 64,583 4,765,564 4,820,170  ed (acc)*  419,329 33,506,066 471,976	CHF	1,548 417,141 410,283 1,222 593 3,739  247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650 224  63,458 79,210 5,741,786 5,810,125  21,662 1,722,052 24,370	03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas BNP Earibas BNP Ea	(23) (4,926) (8,007) (20) (1) (29)  (804,325) (4,021) (4,927) (5,770) (84,291) (14) (148) (7,069) (2)  (1,033) (1,523) (9,287) (7,027)	(0.01)
Class CHF Hedger USD	d (acc)*  1,650 445,940 435,446 1,300 641 4,013  d (acc)*  263,362,039 159,154 356,494 4,384,900 2,509,141 435,010 692 7,351 3,341,587 237  d (dist)*  51,896 64,583 4,765,564 4,820,170  ed (acc)*  419,329 33,506,066	CHF	1,548 417,141 410,283 1,222 593 3,739  247,520,713 152,893 338,647 4,114,005 2,430,015 406,973 662 7,026 3,137,650 224  63,458 79,210 5,741,786 5,810,125	03/01/2023 03/01/2023	Bank of America Merrill Lynch BNP Paribas BNP Paribas Morgan Stanley RBC State Street  Barclays BNP Paribas HOrgan Stanley Morgan Stanley Morgan Stanley State Street  HSBC HSBC HSBC State Street  Goldman Sachs Goldman Sachs	(23) (4,926) (8,007) (20) (1) (29)  (804,325) (4,021) (4,927) (5,770) (84,291) (249) (14) (148) (7,069) (2)  (1,033) (1,523) (9,287) (7,027)	(0.02) - - - - - -

 $<sup>\</sup>hbox{$^*$Contracts entered into for share class currency hedging purpose.}$ 

Schedule of Investments (continued)

As at 31 December 2022

			Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Cash and cash collateral			382,834,686 (978,988) 824,859	100.20 (0.25) 0.22
Undertaking for collective investment schemes (31 December 2021: 0.37%)  JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)  Total Cash equivalents  Other assets and liabilities  Net asset value attributable to holders of redeemable participating shares	<b>Currency</b> USD	Quantity/ Nominal Value 778,839	778,839 778,839 (1,406,489) 382,052,907	0.20 0.20 (0.37) 100.00
Analysis of total assets (Unaudited)				% of Total Assets
Transferable securities and money market instruments admitted to official stock exchange listing Transferable securities and money market instruments dealt in on another regulated market Collective investment schemes OTC financial derivative instruments Other assets  Total Assets				91.52 2.56 0.20 2.05 3.67 100.00

 $^{1}\mathrm{A}$  related party to the Fund.

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Bonds					Toronto-Dominion Bank (The) 0.25%			210.055	0.14
Asset-Backed Securities (31 December 20	021: 6.30%)				06/01/2023 Toronto-Dominion Bank (The), FRN	USD	319,000	318,855	0.14
Cayman Islands (31 December 2021: 6.30% Barings CLO Ltd. 2013-I 'AR', FRN 5.04%	6)				4.45% 27/01/2023 Toronto-Dominion Bank (The) 0.75%	USD	791,000	790,993	0.35
20/01/2028	USD	855,898	849,571	0.38	12/06/2023	USD	485,000	476,261	0.21
CBAM 2017-1 Ltd. 'A1', FRN 5.49% 20/07/2030	USD	1,669,546	1,651,930	0.73	Canada total		-	21,406,802	9.51
CIFC Funding 2012-II-R Ltd. 'A1', FRN 5.04% 20/01/2028	USD	569,575	565,455	0.25	Cayman Islands (31 December 2021: 0.48%, Avolon Holdings Funding Ltd. 5.13%				
CIFC Funding 2017-V Ltd. 'A1', FRN 5.26% 16/11/2030	USD	250,000	247,355	0.11	01/10/2023	USD	191,000	188,844	0.08
Dryden 30 Senior Loan Fund 'AR', FRN 5.43% 15/11/2028	USD	3,363,020	3,322,876	1.47	Cayman Islands total		-	188,844	0.08
LCM XIV LP 'AR', FRN 5.28% 20/07/2031 Magnetite XVI Ltd. 'AR', FRN 4.99%	USD	1,100,000	1,078,934	0.48	Finland (31 December 2021: 0.31%) Nordea Bank Abp 3.43% 10/02/2023	USD	1,100,000	1,098,742	0.49
18/01/2028 Marble Point CLO XI Ltd. 'A', FRN 5.37%	USD	2,186,569	2,170,344	0.96	Nordea Bank Abp 3.75% 30/08/2023	USD	600,000	594,203	0.26
18/12/2030 OCP CLO 2016-11 Ltd. 'A1AR', FRN 5.60%	USD	1,000,000	983,412	0.44	Finland total			1,692,945	0.75
26/10/2030	USD	3,950,000	3,910,571	1.74	France (31 December 2021: 4.00%) Bangue Federative du Credit Mutuel SA		-		
Shackleton 2015-VIII CLO Ltd. 'A1R', FRN 5.16% 20/10/2027	USD	245,499	243,250	0.11	3.75% 20/07/2023 BNP Paribas SA 3.50% 01/03/2023	USD USD	1,295,000 1,647,000	1,284,670 1,642,950	0.57 0.73
Sound Point CLO XXI Ltd. 'A1A', FRN 5.51% 26/10/2031	USD	1,000,000	975,749	0.43	BNP Paribas SA 3.80% 10/01/2024	USD	627,000	616,243	0.27
Symphony CLO XVI Ltd. 'AR', FRN 5.23% 15/10/2031	USD	1,610,000	1,570,908	0.70	Credit Agricole SA 3.75% 24/04/2023 Crédit Industriel et Commercial 0.00%	USD	550,000	547,572	0.24
THL Credit Wind River 2014-2 CLO Ltd. 'AR', FRN 5.22% 15/01/2031	USD	1,500,000	1,476,341	0.66	09/02/2023 Natixis SA, FRN 4.90% 24/03/2023	USD USD	1,150,000 1,054,000	1,144,335 1,054,984	0.51 0.47
Cayman Islands total	030	1,500,000	19.046.696		Societe Generale SA 0.00% 15/12/2023 Societe Generale SA 3.88% 28/03/2024	USD USD	1,321,000 1,188,000	1,255,937 1,160,741	0.56 0.52
•	-:4:			8.46	France total	usp	1,100,000		
Total investments in Asset-Backed Secur	rities		19,046,696	8.46	Ireland (31 December 2021: 0.58%)		-	8,707,432	3.87
Corporate Debt Securities (31 December	2021: 91.14	%)			AerCap Ireland Capital DAC / AerCap			240.220	0.11
Australia (31 December 2021: 3.12%) Commonwealth Bank of Australia, FRN					Global Aviation Trust 4.13% 03/07/2023 AerCap Ireland Capital DAC / AerCap	USD	251,000	249,239	0.11
5.44% 16/03/2023 Macquarie Bank Ltd., FRN 3.98%	USD	2,675,000	2,676,404	1.19	Global Aviation Trust 4.50% 15/09/2023 AerCap Ireland Capital DAC / AerCap	USD	364,000	361,596	0.16
06/04/2023	USD	2,600,000	2,598,936	1.15	Global Aviation Trust 1.15% 29/10/2023	USD	880,000	846,680	0.38
Sydney Airport Finance Co. Pty. Ltd. 3.90% 22/03/2023	USD	600,000	598,354	0.27	Ireland total			1,457,515	0.65
Toyota Finance Australia Ltd. 0.00% 08/05/2023	USD	829,000	814,812	0.36	Italy (31 December 2021: 1.23%) Intesa Sanpaolo SpA 3.38% 12/01/2023	USD	590,000	589,709	0.26
Westpac Banking Corp., FRN 5.33% 15/05/2023	USD	2,297,000	2,299,492	1.02	Italy total	430	-		
Westpac Banking Corp. 0.00% 23/08/2023	USD	1,678,000	1,623,296	0.72	Japan (31 December 2021: 5.03%)		-	589,709 ————————————————————————————————————	0.26
Australia total	435	1,070,000			Mitsubishi UFJ Financial Group, Inc.	Heb	407.000	405,135	0.18
Bermuda (31 December 2021: 0.10%)			10,611,294	4.71	3.46% 02/03/2023 Mitsubishi UFJ Financial Group, Inc., FRN	USD	406,000		
Triton Container International Ltd. 0.80% 01/08/2023	USD	261,000	251,875	0.11	0.96% 11/10/2025 Mizuho Bank Ltd. 0.00% 10/01/2023 Mizuho Financial Group, Inc., FRN 0.85%	USD USD	854,000 1,144,000	785,589 1,142,476	0.35 0.51
Bermuda total			251,875	0.11	08/09/2024 NTT Finance Corp. 0.37% 03/03/2023	USD USD	300,000 890,000	289,580 884,961	0.13 0.39
Canada (31 December 2021: 8.84%) Alimentation Couche-Tard, Inc. 0.00%					Sumitomo Corp. 2.60% 09/07/2024 Sumitomo Mitsui Banking Corp. 2.70%	USD	1,000,000	957,220	0.43
17/01/2023	USD	1,100,000	1,097,416	0.49	25/04/2023	USD	1,999,000	1,985,355	0.88
Bank of Montreal 0.00% 05/01/2023 Bank of Montreal, FRN 4.06%	USD	500,000	499,640	0.22	Sumitomo Mitsui Banking Corp. 2.70% 28/04/2023	USD	1,186,000	1,177,680	0.52
14/04/2023 Bank of Montreal 3.87% 21/07/2023	USD USD	799,000 2,000,000	797,986 1,985,600	0.36 0.88	Sumitomo Mitsui Trust Bank Ltd. 0.85% 25/03/2024	USD	1,981,000	1,874,265	0.83
Bank of Montreal 5.00% 06/10/2023 Bank of Nova Scotia (The), FRN 0.85%	USD	2,400,000	2,393,296	1.06	Sumitomo Mitsui Trust Bank Ltd., FRN 4.75% 16/09/2024	USD	572,000	568,373	0.25
24/03/2023 Bank of Nova Scotia (The), FRN 3.80%	USD	1,787,000	1,788,156	0.79	Japan total		-	10,070,634	4.47
01/08/2023	USD	1,594,000	1,596,996	0.71	Netherlands (31 December 2021: 1.46%)		-		
Bell Telephone Co. of Canada or Bell Canada (The) 0.75% 17/03/2024	USD	697,000	660,854	0.29	Cooperatieve Rabobank UA, FRN 4.74% 27/01/2023	USD	936,000	936,211	0.42
Canadian Imperial Bank of Commerce, FRN 5.12% 17/03/2023	USD	87,000	87,098	0.04	Deutsche Telekom International Finance BV 2.49% 19/09/2023	USD	180,000	176,397	0.08
Canadian Imperial Bank of Commerce 0.95% 23/06/2023	USD	148,000	145,236	0.07	Heineken NV 2.75% 01/04/2023	USD	330,000	328,010	0.14
Canadian Imperial Bank of Commerce 0.00% 26/07/2023	USD	3,125,000	3,035,932	1.35	Siemens Financieringsmaatschappij NV 0.40% 11/03/2023	USD	250,000	248,015	0.11
Canadian Imperial Bank of Commerce, FRN 4.71% 14/12/2023			328,827	0.15	Netherlands total		-	1,688,633	0.75
Element Fleet Management Corp. 1.60%	USD	330,000			New Zealand (31 December 2021: 0.00%)		-		
06/04/2024 Enbridge, Inc., FRN 4.56% 17/02/2023	USD USD	100,000 241,000	94,764 240,912	0.04 0.11	Westpac Securities NZ Ltd. 0.00% 02/02/2023	USD	1,150,000	1,145,315	0.51
Federation des Caisses Desjardins du Quebec, FRN 4.62% 21/05/2024	USD	447,000	441,858	0.20	New Zealand total		-	1,145,315	0.51
Federation des Caisses Desjardins du Quebec 0.70% 21/05/2024	USD	642,000	601,611	0.27	Norway (31 December 2021: 0.00%)		-		0.51
Royal Bank of Canada, FRN 4.44% 17/01/2023	USD	300,000	299,955	0.13	DNB Bank ASA 0.00% 17/11/2023	USD	1,989,000	1,900,528	0.84
Royal Bank of Canada 0.00% 15/12/2023 Suncor Energy, Inc. 0.00% 10/01/2023	USD USD	2,140,000 1,700,000	2,026,943 1,697,613	0.13 0.90 0.75	Norway total		-	1,900,528	0.84

### JPMorgan ETFs (Ireland) ICAV - USD Ultra-Short Income UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Singapore (31 December 2021: 0.26%) Oversea-Chinese Banking Corp. Ltd., FRN					Athene Global Funding, FRN 4.90% 24/05/2024	USD	608,000	597,400	0.27
4.77% 24/01/2023 Singapore total	USD	1,444,000	1,444,291	0.64	Atmos Energy Corp., FRN 5.10% 09/03/2023 Atmos Energy Corp. 0.63% 09/03/2023	USD	800,000	799,513 543,969	0.35 0.24
South Korea (31 December 2021: 1.09%)		-	1,444,291 ————————————————————————————————————	0.64	Australia & New Zealand Banking Group Ltd., New York Branch 0.00% 20/11/2023	USD	548,000 734,000	700,855	0.24
Hyundai Capital Services, Inc. 3.75% 05/03/2023	USD	277,000	276,127	0.12	Australia & New Zealand Banking Group Ltd., New York Branch 0.00% 22/11/2023	USD	1.233.000	1,176,956	0.52
KEB Hana Bank 0.00% 17/01/2023 KEB Hana Bank, FRN 4.89% 16/02/2023	USD USD	1,401,000 2,035,000	1,397,964 2,035,726	0.62 0.90	Australia & New Zealand Banking Group Ltd., New York Branch 0.00% 15/12/2023	USD	2,157,000	2,051,831	0.91
Kia Corp. 3.00% 25/04/2023 Kookmin Bank Co. Ltd. 0.00%	USD	1,950,000	1,936,214	0.86	AutoZone, Inc. 2.88% 15/01/2023 Bank of America Corp., FRN 0.52%	USD	1,600,000	1,598,988	0.71
09/03/2023 Woori Bank, FRN 5.10% 18/08/2023	USD USD	771,000 395,000	764,202 395,399	0.34 0.18	14/06/2024 Bank of America Corp., FRN 3.46%	USD	1,630,000	1,591,419	0.71
South Korea total	th Korea total 15/03/2025  6,805,632 3.02 Bank of America Corp., FRN 0.98%		USD	57,000	55,543	0.02			
Spain (31 December 2021: 0.84%) Banco Santander SA 3.13% 23/02/2023	USD	600,000	598,241	0.27	22/04/2025 Bank of America Corp., FRN 3.84%	USD	431,000	404,229	0.18
Banco Santander SA, FRN 5.04% 12/04/2023	USD	400,000	400,042	0.18	25/04/2025 BMW US Capital LLC 3.80% 06/04/2023	USD USD	241,000 385,000	235,528 384,090	0.10 0.17
Banco Santander SA, FRN 0.70% 30/06/2024	USD	400,000	389.000	0.17	BMW US Capital LLC, FRN 4.85% 01/04/2024	USD	210,000	208,981	0.09
Spain total		-	1,387,283	0.62	Brighthouse Financial Global Funding 0.60% 28/06/2023	USD	133,000	129,713	0.06
Switzerland (31 December 2021: 1.90%)		-			Brighthouse Financial Global Funding 1.20% 15/12/2023	USD	341,000	326,732	0.15
Credit Suisse AG 1.00% 05/05/2023 Credit Suisse AG 0.52% 09/08/2023	USD USD	418,000 867,000	408,123 824,734	0.18 0.37	Brighthouse Financial Global Funding 1.00% 12/04/2024 Capital One Financial Corp. FRN 5 120/	USD	449,000	422,751	0.19
Credit Suisse AG, FRN 4.44% 02/02/2024 UBS AG 0.38% 01/06/2023	USD USD	414,000 552,000	396,057 540,957	0.18 0.24	Capital One Financial Corp., FRN 5.13% 30/01/2023	USD	1,086,000	1,086,000	0.48
UBS AG, FRN 4.47% 09/02/2024 UBS AG, FRN 4.56% 09/08/2024	USD USD	753,000 442,000	749,462 438,918	0.33 0.19	Capital One Financial Corp. 3.20% 30/01/2023	USD	535,000	535,000	0.24
UBS Group AG, FRN 4.49% 05/08/2025	USD	1,141,000	1,121,971	0.50	Capital One Financial Corp. 2.60% 11/05/2023 Carlisle Cos., Inc. 0.55% 01/09/2023	USD USD	86,000 225,000	85,302 217,704	0.04 0.10
Switzerland total		-	4,480,222	1.99	CenterPoint Energy, Inc., FRN 4.78% 13/05/2024	USD	386,000	381,506	0.10
United Kingdom (31 December 2021: 7.96%) AstraZeneca plc 0.30% 26/05/2023	USD	1,147,000	1,126,675	0.50	Charles Schwab Corp. (The), FRN 4.82% 18/03/2024	USD	46,000	45,854	0.02
Barclays plc, FRN 1.01% 10/12/2024 Coca-Cola Europacific Partners plc 0.50%	USD	353,000	336,111	0.15	Cigna Corp., FRN 4.97% 15/07/2023	USD	167,000	167,289	0.07
05/05/2023 Coca-Cola Europacific Partners plc 0.80%	USD	543,000	534,148	0.24	Citibank NA 3.85% 28/07/2023 Citigroup Global Markets Holdings, Inc.	USD	1,200,000	1,190,332	0.53
03/05/2024 HSBC Holdings plc, FRN 0.73%	USD	755,000	709,352	0.32	0.75% 07/06/2024 Comerica, Inc. 3.70% 31/07/2023	USD USD	960,000 771,000	897,573 765,313	0.34
17/08/2024 HSBC Holdings plc, FRN 0.98%	USD	1,106,000	1,065,939	0.47	Conagra Brands, Inc. 0.50% 11/08/2023 Conagra Brands, Inc. 4.30% 01/05/2024	USD USD	381,000 272,000	370,168 268,350	0.16 0.12
24/05/2025 Lloyds Bank Corporate Markets plc, FRN	USD	619,000	573,336	0.25	Constellation Brands, Inc. 3.60% 09/05/2024	USD	169,000	165,534	0.07
0.95% 22/03/2023 NatWest Group plc 3.88% 12/09/2023	USD USD	647,000 300,000	647,253 296,888	0.29 0.13	Cooperatieve Rabobank UA, New York Branch 2.80% 17/05/2023	USD	1,792,000	1,777,328	0.79
NatWest Markets plc 2.38% 21/05/2023 Qatar National Bank QPSC, London	USD	580,000	572,606	0.25	Cooperative Center Federal Credit Union 3.74% 31/05/2023	USD	1,917,000	1,906,983	0.85
Branch 0.00% 10/01/2023 Qatar National Bank QPSC, London	USD	2,500,000	2,496,614	1.11	Crédit Agricole CIB 0.00% 22/05/2023 DNBáMarkets, Inc. 0.00% 16/08/2023	USD USD	2,087,000 2,197,000	2,048,203 2,128,437	0.91 0.95
Branch 0.00% 02/02/2023 Standard Chartered plc, FRN 6.06%	USD	1,500,000	1,493,703	0.66	DNBáMarkets, Inc. 0.00% 19/12/2023 Dominion Energy, Inc., FRN 5.30%	USD	1,795,000	1,706,940	0.76
30/03/2026	USD	200,000	196,730	0.09	15/09/2023 Emera US Finance LP 0.83% 15/06/2024	USD USD	356,000 1,314,000	355,296 1,226,884	0.16 0.54
United Kingdom total		_	10,049,355	4.46	Enbridge (US), Inc. 0.00% 06/02/2023 Enel Finance America LLC 0.00%	USD	800,000	795,884	0.35
United States (31 December 2021: 52.44%) 7-Eleven, Inc. 0.63% 10/02/2023	USD	1,366,000	1,358,999	0.60	24/01/2023 Entergy Louisiana LLC 0.62% 17/11/2023	USD USD	978,000 100,000	974,688 96,272	0.43 0.04
7-Eleven, Inc. 0.80% 10/02/2024 Corebridge Global Funding 0.40%	USD	1,076,000	1,023,806	0.45	Equitable Financial Life Global Funding, FRN 4.08% 06/04/2023	USD	597,000	597,006	0.27
13/09/2023 Allstate Corp. (The), FRN 5.36%	USD	167,000	161,772	0.07	Equitable Financial Life Global Funding 0.50% 17/11/2023	USD	288,000	276,234	0.12
29/03/2023 American Electric Power Co., Inc. 0.75% 01/11/2023	USD	2,707,000	2,709,996 479,402	1.20 0.21	Equitable Holdings, Inc. 3.90% 20/04/2023	USD	721,000	718,613	0.32
American Express Co., FRN 5.39% 27/02/2023	USD	498,000	379,001	0.21	Eversource Energy, FRN 4.39% 15/08/2023	USD	254,000	253,043	0.11
American Express Co. 3.38% 03/05/2024	USD USD	379,000 118,000	115,644	0.05	Fidelity National Information Services, Inc. 0.60% 01/03/2024	USD	800,000	757,216	0.34
American Honda Finance Corp. 0.35% 20/04/2023 American Honda Finance Corp., FRN	USD	135,000	133,230	0.06	Fifth Third Bancorp 1.63% 05/05/2023 Florida Power & Light Co., FRN 4.12%	USD	336,000	332,284	0.15
5.15% 08/09/2023 American Honda Finance Corp. 0.65%	USD	206,000	205,860	0.09	12/01/2024 General Motors Financial Co., Inc. 1.05%	USD	700,000	695,040	0.31
08/09/2023 American Tower Corp. 3.50% 31/01/2023	USD USD	369,000 134,000	358,421 133,839	0.16 0.06	08/03/2024 Glencore Funding LLC 4.13% 30/05/2023	USD USD	184,000 60,000	174,783 59,688	0.08
American Tower Corp. 5.00% 15/02/2024	USD	617,000	614,911	0.27	Goldman Sachs Group, Inc. (The) 3.63% 22/01/2023 Goldman Sachs Group, Inc. (The), FRN	USD	738,000	737,380	0.33
AmerisourceBergen Corp. 0.74% 15/03/2023	USD	252,000	249,877	0.11	0.67% 08/03/2024 Goldman Sachs Group, Inc. (The), FRN	USD	1,000,000	989,275	0.44
ASB Bank Ltd. 0.00% 18/08/2023	USD	717,000	694,033	0.31	4.78% 10/09/2024	USD	105,000	103,458	0.05
AT&T, Inc., FRN 4.96% 25/03/2024 AT&T, Inc. 0.90% 25/03/2024	USD USD	245,000 492,000	243,829 467,360	0.11 0.21	Hormel Foods Corp. 0.65% 03/06/2024 HSBC Bank USA 0.00% 06/01/2023	USD USD	148,000 1,500,000	139,424 1,498,728	0.06 0.67
Athene Global Funding 1.20% 13/10/2023	USD	319,000	308,247	0.14	HSBC Bank USA NA 4.01% 10/08/2023	USD	384,000	381,226	0.67
Athene Global Funding 0.95% 08/01/2024	USD	107,000	101,836	0.05	Humana, Inc. 0.65% 03/08/2023 Huntington Bancshares, Inc. 2.63%	USD	588,000	572,818	0.25
Athene Global Funding 1.00% 16/04/2024	USD	186,000	173,951	0.08	06/08/2024	USD	353,000	338,957	0.15

### JPMorgan ETFs (Ireland) ICAV - USD Ultra-Short Income UCITS ETF

Schedule of Investments (continued)

Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets	Investments	Currency	Quantity/ Nominal Value	Fair Value USD	% of Net Assets
Hyundai Capital America 2.38%	1160	127.000	126 714	0.06	Toyota Motor Credit Corp., FRN 4.06%	ucp	1/0.000	150.010	0.07
10/02/2023 Hyundai Capital America 0.80% 03/04/2023	USD	127,000 500.000	126,714 494,169	0.06	11/01/2024 Truist Bank, FRN 4.00% 17/01/2024 Truist Financial Corp. 3.75% 06/12/2023	USD	160,000 984,000	159,010 977,531	0.07
Hyundai Capital America 4.30% 01/02/2024	USD	158,000	156,105	0.22	Verizon Communications, Inc. 0.75% 22/03/2024	USD	273,000	270,080 492,663	0.12
Hyundai Capital America 0.88% 14/06/2024	USD	580,000	541,185	0.24	VMware, Inc. 0.60% 15/08/2023	USD USD	519,000 288,000	280,467	0.12
Jackson National Life Global Funding 3.25% 30/01/2024	USD	92,000	89,830	0.24	VMware, Inc. 1.00% 15/08/2024 Volkswagen Group of America Finance	USD	167,000	155,461	0.07
KeyBank NA, FRN 0.43% 14/06/2024 Komatsu Finance America, Inc. 0.85%	USD	849,000	826,838	0.37	Volkswagen Group of America Finance	USD	260,000	257,920	0.11
09/09/2023 M&T Bank Corp., FRN 5.01% 26/07/2023	USD USD	200,000 2,700,000	194,025 2,700,595	0.09 1.20	LLC 0.88% 22/11/2023 Wells Fargo & Co., FRN 1.65%	USD	200,000	192,367	0.09
Martin Marietta Materials, Inc. 0.65% 15/07/2023	USD	262,000	255,237	0.11	02/06/2024 Wells Fargo & Co., FRN 0.81% 19/05/2025	USD	400,000	393,582 187,280	0.08
Metropolitan Edison Co. 3.50% 15/03/2023	USD	950,000	946,884	0.42	Westlake Corp. 0.88% 15/08/2024	USD USD	200,000 1,310,000	1,216,888	0.08
Metropolitan Life Global Funding I 0.90% 08/06/2023	USD	267,000	262,564	0.12	Westpac Banking Corp., New York Branch 0.00% 10/07/2023	USD	1,200,000	1,168,275	0.52
Morgan Stanley 3.75% 25/02/2023	USD	555,000	553,861	0.12	Whirlpool Corp. 3.70% 01/03/2023	USD	1,568,000	1,565,151	0.69
Morgan Stanley, FRN 4.60% 10/11/2023	USD	580,000	578,298	0.26	United States total			108,920,478	48.37
Morgan Stanley, FRN 0.73% 05/04/2024	USD	627,000	618,051	0.27					
Morgan Stanley 3.88% 29/04/2024 MUFG Bank Ltd., New York Branch 5.16%	USD	959,000	944,438	0.42	Total investments in Corporate Debt Sec	urities		192,798,787	85.61
15/05/2023 National Rural Utilities Cooperative	USD	1,114,000	1,115,291	0.50	Government Debt Securities (31 December	er 2021: 1.18	3%)		
Finance Corp., FRN 4.49% 07/08/2023 Natixis SA, New York Branch 0.00%	USD	578,000	575,977	0.26	Sweden (31 December 2021: 0.12%) Svensk Exportkredit AB, FRN 5.17%				
06/01/2023 Natixis SA, New York Branch 0.00%	USD	1,439,000	1,408,592	0.63	25/05/2023	USD	320,000	321,000	0.14
28/03/2023 Natixis SA, New York Branch 4.29%	USD	1,783,000	1,762,733	0.78	Sweden total			321,000	0.14
08/09/2023 New York Life Global Funding 1.10%	USD	477,000	473,234	0.21	United States (31 December 2021: 0.03%) US Treasury Bill 0.00% 09/02/2023	USD	210,000	209,097	0.09
05/05/2023 New York Life Global Funding 3.86%	USD	35,000	34,575	0.02	United States total			209,097	0.09
26/08/2024 NextEra Energy Capital Holdings, Inc.	USD	1,100,000	1,077,101	0.48	Total investments in Government Debt S	ecurities		530,097	0.23
0.65% 01/03/2023 Nordea Bank Abp, New York Branch	USD	72,000	71,507	0.03	T / ID . I				
2.97% 08/06/2023 Norinchukin Bank (The), New York	USD	2,200,000	2,181,288	0.97	Total Bonds			212,375,580	94.30
Branch 3.95% 15/08/2023 Norinchukin Bank (The), New York	USD	2,231,000	2,213,459	0.98					
Branch, FRN 4.85% 27/02/2023 Oracle Corp. 2.63% 15/02/2023	USD USD	1,281,000 2,653,000	1,281,493 2,644,724	0.57 1.17					
Oversea-Chinese Banking Corp. Ltd., New York Branch 5.28% 05/07/2023	USD	936,000	937,547	0.42					
Penske Truck Leasing Co. LP / PTL Finance Corp. 3.90% 01/02/2024	USD	1,222,000	1,196,543	0.53					
PPL Electric Utilities Corp., FRN 4.65% 24/06/2024	USD	272,000	267,862	0.12					
Principal Life Global Funding II 1.25% 11/05/2023	USD	1,245,000	1,229,399	0.55					
Principal Life Global Funding II 0.50% 08/01/2024	USD	400,000	382,060	0.17					
Protective Life Global Funding 1.08% 09/06/2023	USD	205,000	201,560	0.09					
RBC Bank 0.00% 20/01/2023	USD	1,000,000	997,477	0.09					
RBC Bank 0.00% 22/11/2023	USD	1,010,000	963,386	0.43					
Reliance Standard Life Global Funding II 2.15% 21/01/2023	USD	138,000	137,774	0.06					
Sherwin-Williams Co. (The) 4.05% 08/08/2024	USD	200,000	197,259	0.09					
Skandinaviska Enskilda Banken AB, New York Branch 2.85% 01/06/2023	USD	2,115,000	2,095,565	0.93					
Standard Chartered USA 0.00% 06/06/2023	USD	500,000	489,388	0.22					
Svenska Handelsbanken AB, New York Branch 0.00% 18/01/2023	USD	1,740,000	1,736,042	0.77					
Svenska Handelsbanken AB, New York Branch 2.01% 23/03/2023	USD	1,986,000	1,974,664	0.88					
Svenska Handelsbanken AB, New York Branch 3.46% 13/06/2023	USD	600,000	595,861	0.26					
Take-Two Interactive Software, Inc. 3.30% 28/03/2024	USD	236,000	230,475	0.10					
TD Bank USA NA 2.90% 01/06/2023	USD	1,290,000	1,278,517	0.57					
TD Bank USA NA 4.07% 18/07/2023	USD	2,067,000	2,054,108	0.91					
TD Bank USA NA 0.05% 01/08/2023	USD	1,200,000	1,201,192	0.53					
TD Bank USA NA 4.35% 12/09/2023	USD	1,822,000	1,809,702	0.80					
TD Bank USA NA 5.37% 15/12/2023 TD SYNNEX Corp. 1.25% 09/08/2024	USD USD	1,400,000 178,000	1,399,547 165,262	0.62 0.07					
Teledyne Technologies, Inc. 0.65% 01/04/2023	HCD	021 000	011 017	0.36					
Telstra, Inc. 0.00% 12/01/2023	USD USD	821,000 1,100,000	811,017 1,098,259	0.36					
TELUS International US Corp. 0.00% 11/01/2023 Thorma Fisher Scientific Inc. EDN 4.1606	USD	1,700,000	1,697,393	0.75					
Thermo Fisher Scientific, Inc., FRN 4.16% 18/04/2023	USD	1,567,000	1,563,459	0.69					
Toyota Motor Credit Corp., FRN 5.05% 25/07/2023	USD	1,802,000	1,803,192	0.80					

### JPMorgan ETFs (Ireland) ICAV - USD Ultra-Short Income UCITS ETF

Schedule of Investments (continued)

As at 31 December 2022

Financial Futures Contracts

Security Description	No. of Contracts	Currency	Underlying Exposure USD	Counterparty		Fair Value USD	% of Net Assets
United States (31 December 2021: (0.00)%) US 2-Year Note, 31/03/2023	(82)	USD	(16,798,469)	Citibank NA		(17,938)	(0.01)
United States total	(/		(==,::=,:=:,		-	(17,938)	(0.01)
	- 2021 (0.00)()				-		
Total unrealised loss on Financial Futures Contracts (31 December	2021: (0.00)%)				=	(17,938)	(0.01)
						Fair Value USD	% of Net Assets
Total financial assets at fair value through profit or loss Total financial liabilities at fair value through profit or loss Bank overdraft and margin cash						212,375,580 (17,938) (25,882)	94.30 (0.01) (0.01)
Cash equivalents  Undertaking for collective investment schemes (31 December 202 JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dis Total Cash equivalents				<b>Currency</b> USD	Quantity/ Nominal Value 11,904,978	11,904,978 11,904,978	5.29 5.29
Other assets and liabilities  Net asset value attributable to holders of redeemable participating	ng shares					973,356 <b>225,210,094</b>	0.43 100.00
Analysis of total assets (Unaudited)							% of Total Assets
Transferable securities and money market instruments admitted to Transferable securities and money market instruments dealt in on a Transferable securities and money market instruments other than t Collective investment schemes  Other assets	nother regulated ma	rket	e listing or dealt in o	on another regulated ma	arket		16.25 36.65 41.24 5.28 0.58

100.00

Total Assets

 $<sup>^{1}\!\</sup>mathrm{A}$  related party to the Fund.

# 1. Statement of Significant Portfolio Changes JPMorgan ETFs (Ireland) ICAV - AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF\*

### Purchases

Nominal Holding or Shares	Description	Cost USD
5,051,459	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	5,051,459
87,000	Taiwan Semiconductor Manufacturing Co. Ltd.	1,663,397
22,500	Tencent Holdings Ltd.	1,085,020
20,006	Samsung Electronics Co. Ltd.	1,070,915
57,400	Alibaba Group Holding Ltd.	741,528
17,437	BHP Group Ltd.	580,493
48,200	AIA Group Ltd.	509,791
5,774	Commonwealth Bank of Australia	417,562
16,900	Meituan 'B'	392,747
1,948	CSL Ltd.	368,200
423,000	China Construction Bank Corp. 'H'	295,119
9,567	Reliance Industries Ltd.	294,874
9,500	JD.com, Inc. 'A'	293,419
14,608	Infosys Ltd.	270,997
5,300	Hong Kong Exchanges & Clearing Ltd.	254,773
7,769	Housing Development Finance Corp. Ltd.	230,776
21,513	ICICI Bank Ltd.	217,872
2,577	SK Hynix, Inc.	217,810
8,400	DBS Group Holdings Ltd.	216,785
29,000	Ping An Insurance Group Co. of China Ltd. 'H'	205,798

Nominal Holding or Shares	Description	Proceed USD
5,051,459	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	5,051,459
2,375	Reliance Industries Ltd. GDR	154,398
10,000	Taiwan Semiconductor Manufacturing Co. Ltd.	148,737
10,500	Alibaba Group Holding Ltd.	116,254
2,247	Samsung Electronics Co. Ltd.	102,101
2,500	Tencent Holdings Ltd.	99,334
8,200	AIA Group Ltd.	87,344
1,959	BHP Group Ltd.	59,099
514	Macquarie Group Ltd.	57,364
830	Commonwealth Bank of Australia	56,937
700	Contemporary Amperex Technology Co. Ltd. 'A'	47,673
8,000	Nongfu Spring Co. Ltd. 'H'	45,758
1,870	Woodside Energy Group Ltd.	43,973
2,000	MediaTek, Inc.	43,404
1,900	Meituan 'B'	42,822
472	Pinduoduo, Inc. ADR	41,806
219	CSL Ltd.	41,737
3,000	Yageo Corp	39,060
899	Kakao Corp.	37,647
18,300	Malayan Banking Bhd.	37,475

<sup>\*</sup>Sub-Fund launched on 15 February 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders China Aggregate Bond UCITS ETF\*

### Purchases

Nominal Holding or Shares	Description	Cost USD
24,000,000	China Government Bond	3,512,980
23,000,000	China Government Bond	3,283,707
17,400,000	China Development Bank	2,740,102
16,000,000	Export-Import Bank of China (The)	2,538,601
15,500,000	China Government Bond	2,451,691
15,000,000	China Government Bond	2,305,460
14,100,000	China Government Bond	2,300,723
15,000,000	China Government Bond	2,282,516
13,800,000	Agricultural Development Bank of China	2,184,281
12,500,000	China Government Bond	1,958,142
12,000,000	Agricultural Development Bank of China	1,929,777
12,000,000	China Government Bond	1,895,868
11,500,000 11,000,000	China Development Bank Agricultural Development Bank of China	1,795,612 1,740,727
11,000,000	China Development Bank of China	1,740,727
11.000,000	China Development Bank China Development Bank	1,731,761
12,100,000	Export-Import Bank of China (The)	1,694,997
11.000.000	China Government Bond	1.661.042
10,000,000	Agricultural Development Bank of China	1,647,508
10,000,000	China Government Bond	1,623,715
10.000.000	Export-Import Bank of China (The)	1.607.421
10,000,000	China Government Bond	1,603,689
10,000,000	China Development Bank	1,586,915
10,000,000	China Government Bond	1,585,774
10,000,000	China Government Bond	1,583,131
10,000,000	China Government Bond	1,577,936
10,000,000	Export-Import Bank of China (The)	1,572,081
10,000,000	Shanghai Pudong Development Bank Co. Ltd.	1,571,720
9,800,000	China Development Bank	1,566,432
10,000,000	China Development Bank	1,564,194
10,000,000	China Government Bond	1,549,952
10,800,000	China Government Bond	1,500,496
10,000,000	China Everbright Bank Co. Ltd.	1,415,334
10,000,000	Huaxia Bank Co. Ltd.	1,410,372
9,400,000 8,200,000	Agricultural Development Bank of China China Development Bank	1,308,266 1,206,337
7,300,000	China Government Bond	1,200,337
7,000,000	China Development Bank	1,164,474
7,400,000	Agricultural Development Bank of China	1,034,010
7,400,000	China Development Bank of China	1,033,109
6,500,000	China Government Bond	1,015,349
6.800.000	China Government Bond	1.003.395
2,230,000		1,003,373

Nominal Holding or Shares	Description	Proceed USD
10,900,000	China Government Bond	1,555,366
9,000,000	Export-Import Bank of China (The)	1,411,465
8,300,000	China Development Bank	1,216,920
7,600,000	Agricultural Development Bank of China	1,113,571
6,800,000	China Government Bond	983,886
5,500,000	China Development Bank	819,149
5,400,000	China Government Bond	768,657
3,200,000	China Government Bond	496,072
3,000,000	Agricultural Development Bank of China	476,734
2,200,000	China Government Bond	321,637
2,000,000	China Government Bond	303,731
2,000,000	China Development Bank	295,808
2,000,000	Export-Import Bank of China (The)	292,509
248,055	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	248,055
1,200,000	China Government Bond	177,180
1,100,000	China Development Bank	170,940
1,000,000	China Development Bank	157,983
1,000,000	China Government Bond	141,524
1,000,000	Export-Import Bank of China (The)	140,818
900,000	China Development Bank	124,260

<sup>\*</sup>Sub-Fund launched on 17 March 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF

### Purchases

3,12,000	Nominal Holding or Shares	Description	Cost EUR
2,542,000         Bundesrepublik Deutschland Bundesanleihe         2,577           2,254,000         Spain Government Bond         2,244           1,148,000         Bundesobligation         1,097           1,792,000         Italy Buoni Poliennali Del Tesoro         1,997           1,796,000         France Government Bond OAT         1,865           1,693,000         Bundesrepublik Deutschland Bundesanleihe         1,674           1,611,000         Spain Government Bond OAT         1,674           1,620,000         France Government Bond OAT         1,676           1,632,000         France Government Bond OAT         1,576           1,533,000         Italy Buoni Poliennali Del Tesoro         1,572           1,534,000         Italy Buoni Poliennali Del Tesoro         1,572           1,402,000         Beglium Government Bond         1,422           1,402,000         Italy Buoni Poliennali Del Tesoro         1,426           1,402,000         Italy Buoni Poliennali Del Tesoro         1,337           1,302,000         Italy Buoni Poliennali Del Tesoro         1,347           1,207,000         Italy Buoni Poliennali Del Tesoro         1,347           1,207,000         Italy Buoni Poliennali Del Tesoro         1,252           1,207,000         Italy Buon	3.747.000	France Government Bond OAT	3.684.168
2,254,000         Spain Government Bond         2,244           2,148,000         Bundesobligation         2,107           1,792,000         Italy Buoni Poliennali Del Tesoro         1,997           1,796,000         France Government Bond OAT         1,865           1,766,000         France Government Bond OAT         1,753           1,693,000         Bundesrepublik Deutschland Bundesanleihe         1,674           1,611,000         Spain Government Bond OAT         1,604           1,632,000         France Government Bond OAT         1,578           1,549,000         Italy Buoni Poliennali Del Tesoro         1,578           1,523,000         Italy Buoni Poliennali Del Tesoro         1,572           1,497,000         Spain Government Bond         1,572           1,402,000         Italy Buoni Poliennali Del Tesoro         1,572           1,402,000         Italy Buoni Poliennali Del Tesoro         1,373           1,202,000         Italy Buoni Poliennali Del Tesoro         1,375           1,320,000         Italy Buoni Poliennali Del Tesoro         1,375           1,320,000         Italy Buoni Poliennali Del Tesoro         1,376           1,320,000         Italy Buoni Poliennali Del Tesoro         1,376           1,202,000         Italy Buoni Polienn	3,512,000	France Government Bond OAT	3,474,115
2,148,000         Bundespoligation         2,107           1,792,000         Italy Buoni Poliennali Del Tesoro         1,997           1,796,000         France Government Bond OAT         1,865           1,693,000         Bundesrepublik Deutschland Bundesanleihe         1,673           1,611,000         Spain Government Bond         1,644           1,620,000         France Government Bond OAT         1,606           1,532,000         France Government Bond OAT         1,578           1,549,000         Italy Buoni Poliennali Del Tesoro         1,523           1,530,000         Belgium Government Bond         1,522           1,497,000         Spain Government Bond         1,252           1,400,000         Italy Buoni Poliennali Del Tesoro         1,207           1,200,000         Italy Buoni Poliennali Del Tesoro         1,237           1,200,000         Italy Buoni Poliennali Del Tesoro         1,252           1,200,000         Italy Buoni Poliennali Del Tesoro         1,257           1,200,000         Italy Buoni Poliennali Del Tesoro         1,257<	2,542,000	Bundesrepublik Deutschland Bundesanleihe	2,570,566
1,792,000	2,254,000	Spain Government Bond	2,242,832
1,796,000	2,148,000	Bundesobligation	2,107,470
1756.000	1,792,000	Italy Buoni Poliennali Del Tesoro	1,997,454
1,693,000       Bundesrepublik Deutschland Bundesanleihe       1,674         1,611,000       Spain Government Bond       1,644         1,620,000       France Government Bond OAT       1,606         1,549,000       Italy Bunoil Poliennali Del Tesoro       1,544         1,523,000       Italy Bunoil Poliennali Del Tesoro       1,523         1,536,000       Belgium Government Bond       1,522         1,407,000       Spain Government Bond       1,426         1,402,000       Italy Bunoil Poliennali Del Tesoro       1,406         1,300,000       Italy Bunoil Poliennali Del Tesoro       1,377         1,320,000       Italy Bunoil Poliennali Del Tesoro       1,374         1,320,000       Italy Bunoil Poliennali Del Tesoro       1,344         1,360,000       Spain Government Bond       1,252         1,277,000       Netherlands Government Bond       1,252         1,207,000       Italy Bunoil Poliennali Del Tesoro       1,136         1,207,000       Italy Bunoil Poliennali Del Tesoro       1,178         1,100,000       France Government Bond OAT       1,178         1,107,000       Bundesschatzanweisungen       1,080         1,091,000       Italy Bunoil Poliennali Del Tesoro       1,080         1,092,000 <t< td=""><td>1,796,000</td><td>France Government Bond OAT</td><td>1,863,413</td></t<>	1,796,000	France Government Bond OAT	1,863,413
1.61.000	1,766,000	France Government Bond OAT	1,753,430
1,620,000     France Government Bond OAT     1,606       1,632,000     France Government Bond OAT     1,578       1,549,000     Italy Buoni Poliennali Del Tesoro     1,574       1,532,000     Italy Buoni Poliennali Del Tesoro     1,523       1,536,000     Belgium Government Bond     1,523       1,497,000     Spalin Government Bond     1,426       1,402,000     Italy Buoni Poliennali Del Tesoro     1,406       1,300,000     Italy Buoni Poliennali Del Tesoro     1,377       1,320,000     France Government Bond OAT     1,354       1,362,000     Italy Buoni Poliennali Bond     1,262       1,277,000     Netherlands Government Bond     1,257       1,202,000     Italy Buoni Poliennali Del Tesoro     1,188       1,207,000     Italy Buoni Poliennali Del Tesoro     1,188       1,107,000     Italy Buoni Poliennali Del Tesoro     1,178       1,107,000     Bundesschatzanweisungen     1,080       1,091,000     Italy Buoni Poliennali Del Tesoro     1,080       994,000     Ireland Government Bond     1,076       1,038,000     Spain Government Bond     1,076       1,039,000     Italy Buoni Poliennali Del Tesoro     1,080       1,034,000     Italy Buoni Poliennali Del Tesoro     1,080       1,034,000     Italy Buoni Po	1,693,000	Bundesrepublik Deutschland Bundesanleihe	1,674,220
1,632,000         France Government Bond OAT         1,578           1,549,000         Italy Buoni Poliennali Del Tesoro         1,543           1,523,000         Italy Buoni Poliennali Del Tesoro         1,523           1,536,000         Belgium Government Bond         1,523           1,497,000         Spain Government Bond         1,426           1,400,000         Italy Buoni Poliennali Del Tesoro         1,406           1,300,000         Italy Buoni Poliennali Del Tesoro         1,372           1,362,000         Italy Buoni Poliennali Del Tesoro         1,347           1,362,000         Italy Buoni Poliennali Del Tesoro         1,347           1,277,000         Netherlands Government Bond         1,267           1,202,000         Italy Buoni Poliennali Del Tesoro         1,188           1,207,000         Italy Buoni Poliennali Del Tesoro         1,178           1,100,000         France Government Bond OAT         1,188           1,117,000         Bundesschatzanweisungen         1,086           1,109,000         Italy Buoni Poliennali Del Tesoro         1,086           944,000         Ireland Government Bond         1,073           1,034,000         Italy Buoni Poliennali Del Tesoro         906           1,036,000         Italy Buoni Poliennali	1,611,000		1,644,185
1,520,000         Italy Buoni Poliennali Del Tesoro         1,524           1,523,000         Italy Buoni Poliennali Del Tesoro         1,523           1,536,000         Belgium Government Bond         1,426           1,402,000         Italy Buoni Poliennali Del Tesoro         1,406           1,300,000         Italy Buoni Poliennali Del Tesoro         1,371           1,320,000         France Government Bond OAT         1,352           1,362,000         Italy Buoni Poliennali Del Tesoro         1,347           1,277,000         Netherlands Government Bond         1,256           1,277,000         Netherlands Government Bond         1,257           1,202,000         Italy Buoni Poliennali Del Tesoro         1,188           1,207,000         Italy Buoni Poliennali Del Tesoro         1,178           1,100,000         France Government Bond OAT         1,168           1,107,000         Bundesschatzanweisungen         1,108           1,000,000         Italy Buoni Poliennali Del Tesoro         1,087           974,000         France Government Bond OAT         1,076           1,089,000         Italy Buoni Poliennali Del Tesoro         1,087           1,089,000         Italy Buoni Poliennali Del Tesoro         1,088           1,089,000         Italy Buoni	1,620,000	France Government Bond OAT	1,606,810
1,523,000       Italy Buoni Poliennali Del Tesoro       1,523         1,536,000       Belgium Government Bond       1,522         1,497,000       Spain Government Bond       1,426         1,300,000       Italy Buoni Poliennali Del Tesoro       1,377         1,300,000       Italy Buoni Poliennali Del Tesoro       1,357         1,362,000       Italy Buoni Poliennali Del Tesoro       1,347         1,362,000       Italy Buoni Poliennali Del Tesoro       1,347         1,377,000       Netherlands Government Bond       1,257         1,202,000       Italy Buoni Poliennali Del Tesoro       1,188         1,207,000       Italy Buoni Poliennali Del Tesoro       1,188         1,100,000       France Government Bond OAT       1,158         1,117,000       Bundesschatzanweisungen       1,108         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,073         993,000       Italy Buoni Poliennali Del Tesoro       1,032         1,034,000       Italy Buoni Poliennali Del Tesoro       903         1,034,000       Italy Buoni Poliennali Del Tesoro       903         1,034,000       Italy Buoni Poliennali Del Tesoro       903         1,034,000	1,632,000	France Government Bond OAT	1,578,352
1,536,000       Belgium Government Bond       1,522         1,497,000       Spain Government Bond       1,426         1,402,000       Italy Buoni Poliennali Del Tesoro       1,406         1,300,000       Italy Buoni Poliennali Del Tesoro       1,377         1,322,000       France Government Bond OAT       1,354         1,362,000       Spain Government Bond       1,266         1,277,000       Netherlands Government Bond       1,257         1,202,000       Italy Buoni Poliennali Del Tesoro       1,178         1,207,000       Italy Buoni Poliennali Del Tesoro       1,178         1,100,000       France Government Bond OAT       1,168         1,117,000       Bundesschatzanweisungen       1,108         1,091,000       Italy Buoni Poliennali Del Tesoro       1,088         974,000       France Government Bond OAT       1,078         993,000       France Government Bond       1,078         1,034,000       Italy Buoni Poliennali Del Tesoro       1,038         1,034,000       Italy Buoni Poliennali Del Tesoro       1,038         1,034,000       Italy Buoni Poliennali Del Tesoro       90         998,000       Bundesschatzanweisungen       90         806,000       Spain Government Bond       90	1,549,000	Italy Buoni Poliennali Del Tesoro	1,543,221
1,497,000       Spain Government Bond       1,426         1,402,000       Italy Buoni Poliennali Del Tesoro       1,406         1,300,000       Italy Buoni Poliennali Del Tesoro       1,377         1,320,000       France Government Bond OAT       1,354         1,362,000       Italy Buoni Poliennali Del Tesoro       1,347         1,136,000       Spain Government Bond       1,266         1,277,000       Netherlands Government Bond       1,257         1,202,000       Italy Buoni Poliennali Del Tesoro       1,188         1,207,000       Italy Buoni Poliennali Del Tesoro       1,178         1,100,000       France Government Bond OAT       1,168         1,171,000       Bundesschatzanweisungen       1,108         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,076         944,000       Ireland Government Bond       1,076         993,000       Spain Government Bond       1,078         1,089,000       Italy Buoni Poliennali Del Tesoro       99         1,031,400       Italy Buoni Poliennali Del Tesoro       99         1,032,400       Italy Buoni Poliennali Del Tesoro       99         1,031,400       Italy Buoni Poliennali Del Tesoro <td>1,523,000</td> <td>Italy Buoni Poliennali Del Tesoro</td> <td>1,523,088</td>	1,523,000	Italy Buoni Poliennali Del Tesoro	1,523,088
1,402,000       Italy Buoni Poliennali Del Tesoro       1,406         1,300,000       Italy Buoni Poliennali Del Tesoro       1,377         1,320,000       France Government Bond OAT       1,354         1,362,000       Italy Buoni Poliennali Del Tesoro       1,347         1,135,000       Spain Government Bond       1,266         1,277,000       Netherlands Government Bond       1,257         1,207,000       Italy Buoni Poliennali Del Tesoro       1,188         1,207,000       Italy Buoni Poliennali Del Tesoro       1,158         1,100,000       France Government Bond OAT       1,168         1,107,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,076         944,000       Italy Buoni Poliennali Del Tesoro       1,076         993,000       Spain Government Bond       1,078         1,089,000       Italy Buoni Poliennali Del Tesoro       1,035         1,089,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundesschatzanweisungen       993         806,000       Spain Government Bond       795         806,000       Spain Government Bond       795         806,000       Spain Government Bond       903	1,536,000	Belgium Government Bond	1,522,737
1,300,000       Italy Buoni Poliennali Del Tesoro       1,377         1,320,000       France Government Bond OAT       1,354         1,362,000       Italy Buoni Poliennali Del Tesoro       1,347         1,136,000       Spain Government Bond       1,266         1,277,000       Netherlands Government Bond       1,257         1,202,000       Italy Buoni Poliennali Del Tesoro       1,183         1,207,000       Italy Buoni Poliennali Del Tesoro       1,178         1,100,000       France Government Bond OAT       1,108         1,117,000       Bundesschatzanweisungen       1,108         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,076         944,000       Ireland Government Bond       1,076         944,000       Ireland Government Bond       1,076         1,034,000       Italy Buoni Poliennali Del Tesoro       1,038         1,038,000       Italy Buoni Poliennali Del Tesoro       90         998,000       Bundesobligation       90         998,000       Bundesobligation       90         844,000       Bundesobligation       90         806,000       Spain Government Bond       90         806,000 <td></td> <td></td> <td>1,426,918</td>			1,426,918
1,320,000       France Government Bond OAT       1,354         1,362,000       Italy Buoni Poliennali Del Tesoro       1,347         1,136,000       Spain Government Bond       1,266         1,277,000       Netherlands Government Bond       1,257         1,202,000       Italy Buoni Poliennali Del Tesoro       1,183         1,207,000       Italy Buoni Poliennali Del Tesoro       1,178         1,100,000       France Government Bond OAT       1,168         1,117,000       Bundesschatzanweisungen       1,108         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,073         993,000       France Government Bond       1,073         993,000       Italy Buoni Poliennali Del Tesoro       1,035         1,089,000       Italy Buoni Poliennali Del Tesoro       1,035         1,089,000       Italy Buoni Poliennali Del Tesoro       903         993,000       Bundessobligation       993         993,000       Bundessobligation       993         984,000       Bundessobligation       903         880,000       Spain Government Bond       393         900       Spain Government Bond       795         900	1,402,000	Italy Buoni Poliennali Del Tesoro	1,406,906
1,362,000       Italy Buoni Poliennali Del Tesoro       1,347         1,136,000       Spain Government Bond       1,266         1,277,000       Netherlands Government Bond       1,257         1,207,000       Italy Buoni Poliennali Del Tesoro       1,138         1,207,000       Italy Buoni Poliennali Del Tesoro       1,178         1,100,000       France Government Bond OAT       1,168         1,117,000       Bundesschatzanweisungen       1,080         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,073         944,000       Ireland Government Bond       1,073         993,000       Spain Government Bond       1,058         1,089,000       Italy Buoni Poliennali Del Tesoro       90         998,000       Bundessobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       90         844,000       Bundesschatzanweisungen       839         806,000       Spain Government Bond       79         707,000       Bundesrepublik Deutschland Bundesanleihe       79			1,377,562
1,136,000       Spain Government Bond       1,266         1,277,000       Netherlands Government Bond       1,257         1,202,000       Italy Buoni Poliennali Del Tesoro       1,183         1,207,000       Italy Buoni Poliennali Del Tesoro       1,178         1,100,000       France Government Bond OAT       1,168         1,117,000       Bundesschatzanweisungen       1,080         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,076         944,000       Ireland Government Bond       1,076         993,000       Spain Government Bond       1,058         1,089,000       Italy Buoni Poliennali Del Tesoro       1,058         1,034,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundesobligation       993         936,000       Italy Buoni Poliennali Del Tesoro       90         844,000       Bundesschatzanweisungen       83         806,000       Spain Government Bond       799         707,000       Bundesrepublik Deutschland Bundesanleihe       799			1,354,130
1,277,000       Netherlands Government Bond       1,257         1,202,000       Italy Buoni Poliennali Del Tesoro       1,183         1,207,000       Italy Buoni Poliennali Del Tesoro       1,176         1,100,000       France Government Bond OAT       1,168         1,101,000       Bundesschatzanweisungen       1,108         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,076         944,000       Ireland Government Bond       1,078         1,089,000       Italy Buoni Poliennali Del Tesoro       1,038         1,034,000       Italy Buoni Poliennali Del Tesoro       1,038         1,034,000       Italy Buoni Poliennali Del Tesoro       1,038         998,000       Bundesobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       90         844,000       Bundesschatzanweisungen       83         806,000       Spain Government Bond       79         707,000       Bundesrepublik Deutschland Bundesanleihe       79			1,347,899
1,202,000       Italy Buoni Poliennali Del Tesoro       1,183         1,207,000       Italy Buoni Poliennali Del Tesoro       1,175         1,100,000       France Government Bond OAT       1,168         1,117,000       Bundesschatzanweisungen       1,168         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,076         944,000       Ireland Government Bond       1,073         993,000       Spain Government Bond       1,038         1,089,000       Italy Buoni Poliennali Del Tesoro       1,038         1,034,000       Italy Buoni Poliennali Del Tesoro       1,038         998,000       Bundesobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       908         844,000       Bundesschatzanweisungen       80         806,000       Spain Government Bond       799         707,000       Bundesrepublik Deutschland Bundesanleihe       799	, ,		1,266,727
1,207,000       Italy Buoni Poliennali Del Tesoro       1,178         1,100,000       France Government Bond OAT       1,168         1,117,000       Bundesschatzanweisungen       1,108         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,073         944,000       Ireland Government Bond       1,073         993,000       Spain Government Bond       1,058         1,089,000       Italy Buoni Poliennali Del Tesoro       1,035         1,034,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundessobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       90         844,000       Bundesschatzanweisungen       839         806,000       Spain Government Bond       795         707,000       Bundesrepublik Deutschland Bundesanleihe       795			1,257,906
1,100,000       France Government Bond OAT       1,168         1,117,000       Bundesschatzanweisungen       1,108         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,076         944,000       Ireland Government Bond       1,073         993,000       Spain Government Bond       1,058         1,089,000       Italy Buoni Poliennali Del Tesoro       1,035         1,034,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundesobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       900         844,000       Bundesschatzanweisungen       838         806,000       Spain Government Bond       799         707,000       Bundesrepublik Deutschland Bundesanleihe       799			1,183,432
1,117,000       Bundesschatzanweisungen       1,108         1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,076         944,000       Ireland Government Bond       1,073         993,000       Spain Government Bond       1,058         1,089,000       Italy Buoni Poliennali Del Tesoro       1,038         1,034,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundesobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       90         844,000       Bundesschatzanweisungen       839         806,000       Spain Government Bond       799         707,000       Bundesrepublik Deutschland Bundesanleihe       799	, . ,		1,178,801
1,091,000       Italy Buoni Poliennali Del Tesoro       1,080         974,000       France Government Bond OAT       1,076         944,000       Ireland Government Bond       1,073         993,000       Spain Government Bond       1,058         1,080,000       Italy Buoni Poliennali Del Tesoro       1,035         1,034,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundesobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       90         844,000       Bundesschatzanweisungen       839         806,000       Spain Government Bond       795         707,000       Bundesrepublik Deutschland Bundesanleihe       792			1,168,308
974,000       France Government Bond OAT       1,076         944,000       Ireland Government Bond       1,073         993,000       Spain Government Bond       1,053         1,089,000       Italy Buoni Poliennali Del Tesoro       1,035         1,034,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundesobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       90         844,000       Bundesschatzanweisungen       839         806,000       Spain Government Bond       795         707,000       Bundesrepublik Deutschland Bundesanleihe       792			1,108,398
944,000       Ireland Government Bond       1,073         993,000       Spain Government Bond       1,058         1,089,000       Italy Buoni Poliennali Del Tesoro       1,035         1,034,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundesobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       90         844,000       Bundesschatzanweisungen       838         806,000       Spain Government Bond       795         707,000       Bundesrepublik Deutschland Bundesanleihe       795			1,080,306
993,000       Spain Government Bond       1,058         1,089,000       Italy Buoni Poliennali Del Tesoro       1,035         1,034,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundessobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       908         844,000       Bundesschatzanweisungen       839         806,000       Spain Government Bond       795         707,000       Bundesrepublik Deutschland Bundesanleihe       792	,		1,076,650
1,089,000       Italy Buoni Poliennali Del Tesoro       1,035         1,034,000       Italy Buoni Poliennali Del Tesoro       990         998,000       Bundesobligation       943         936,000       Italy Buoni Poliennali Del Tesoro       90         844,000       Bundesschatzanweisungen       839         806,000       Spain Government Bond       790         707,000       Bundesrepublik Deutschland Bundesanleihe       790			1,073,065
1,034,000Italy Buoni Poliennali Del Tesoro990998,000Bundesobligation943936,000Italy Buoni Poliennali Del Tesoro90844,000Bundesschatzanweisungen839806,000Spain Government Bond799707,000Bundesrepublik Deutschland Bundesanleihe792			1,058,498
998,000         Bundesobligation         943           936,000         Italy Buoni Poliennali Del Tesoro         90           844,000         Bundesschatzanweisungen         839           806,000         Spain Government Bond         795           707,000         Bundesrepublik Deutschland Bundesanleihe         792	, ,		1,035,747
936,000 Italy Buni Poliennali Del Tesoro 908 844,000 Bundesschatzanweisungen 839 806,000 Spain Government Bond 799 707,000 Bundesrepublik Deutschland Bundesanleihe 799			990,386
844,000Bundesschatzanweisungen839806,000Spain Government Bond799707,000Bundesrepublik Deutschland Bundesanleihe792	.,		943,544
806,000 Spain Government Bond 799 707,000 Bundesrepublik Deutschland Bundesanleihe 792			908,221
707,000 Bundesrepublik Deutschland Bundesanleihe 792			839,462
			799,675
709 (100) Spain Government Bond 768			792,241
700 Spain constrained bond	/09,000	Spain Government Bond	768,033

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF (continued)

Nominal Holding or Shares	Description	Proceed EUR
6,438,000	France Government Bond OAT	6,872,280
5,913,000	France Government Bond OAT	6,133,651
5,747,000	France Government Bond OAT	5,877,453
4,878,000	France Government Bond OAT	4,871,883
3,857,000	France Government Bond OAT	3,883,247
3,854,000	Italy Buoni Poliennali Del Tesoro	3,857,980
3,801,000	Italy Buoni Poliennali Del Tesoro	3,749,148
3,100,000	Spain Government Bond	3,270,232
3,071,000	Spain Government Bond	3,233,053
2,922,000	Italy Buoni Poliennali Del Tesoro	3,074,042
3,001,000	Spain Government Bond	3,016,777
2,963,000	Spain Government Bond	2,997,390
2,862,000	Italy Buoni Poliennali Del Tesoro	2,978,336
2,832,000	Bundesobligation	2,853,887
2,734,000	Netherlands Government Bond	2,803,907
2,600,000	France Government Bond OAT	2,713,885
2,551,000	Bundesrepublik Deutschland Bundesanleihe	2,650,282
2,518,000	Bundesrepublik Deutschland Bundesanleihe	2,598,355
2,480,000	Bundesrepublik Deutschland Bundesanleihe	2,529,154
2,512,000	Spain Government Bond	2,511,924
2,433,000	Bundesschatzanweisungen	2,444,028
2,304,000	Bundesschatzanweisungen	2,304,073
2,176,000	France Government Bond OAT	2,190,619
2,121,000	Italy Buoni Poliennali Del Tesoro	2,153,050
2,031,000	Spain Government Bond	2,139,872
2,151,000	Netherlands Government Bond	2,130,592
2,093,000	France Government Bond OAT	2,084,424
2,029,000	Italy Buoni Poliennali Del Tesoro	2,034,339
2,044,000	Bundesschatzanweisungen	2,030,762
1,845,000	Bundesrepublik Deutschland Bundesanleihe	2,016,107
1,886,000 1,831,000	Belgium Government Bond Italy Buoni Poliennali Del Tesoro	1,998,244 1,968,105
	Italy Buoni Poliennali Del Tesoro	
1,792,000 1,764,000	Italy Buoni Poliennali Del Tesoro	1,930,687 1,906,779
1,920,000	Italy Buoni Poliennali Del Tesoro	1,870,779 1,871,418
1,803,000	Austria Government Bond	1,801,418 1,801,461
1,691,000	Bundesobligation	1,801,461
1,472,000	Portugal Obrigacoes do Tesouro OT	1,566,631
1,7/2,000	i ortugui obrigucoco uo resouro or	1,300,031

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond UCITS ETF

### Purchases

Co: EU	Description	Nominal Holding or Shares
686,51	France Government Bond OAT	711,000
674,40	Italy Buoni Poliennali Del Tesoro	533,000
640,46	France Government Bond OAT	670,000
530,47	France Government Bond OAT	394,000
520,59	France Government Bond OAT	603,000
492,50	France Government Bond OAT	391,000
485,22	France Government Bond OAT	626,000
478,31	Bundesrepublik Deutschland Bundesanleihe	347,000
455,14	France Government Bond OAT	463,000
453,94	Italy Buoni Poliennali Del Tesoro	412,000
449,92	Spain Government Bond	438,000
449,58	Bundesrepublik Deutschland Bundesanleihe	494,000
447,24	Spain Government Bond	489,000
435,74	Spain Government Bond	365,000
412,64	Italy Buoni Poliennali Del Tesoro	451,000
407,36	Spain Government Bond	395,000
399,05	Italy Buoni Poliennali Del Tesoro	417,000
382,96	Bundesrepublik Deutschland Bundesanleihe	377,000
381,30	Italy Buoni Poliennali Del Tesoro	312,000
380,84	France Government Bond OAT	365,000

Nominal Holding or Shares	Description	Proceed EUR
2,319,000	France Government Bond OAT	2,236,270
1,080,000	Bundesrepublik Deutschland Bundesanleihe	954,982
590,000	France Government Bond OAT	726,867
729,000	Spain Government Bond	713,503
646,000	France Government Bond OAT	664,040
452,000	France Government Bond OAT	598,163
655,000	Italy Buoni Poliennali Del Tesoro	583,511
576,000	France Government Bond OAT	556,310
441,000	Italy Buoni Poliennali Del Tesoro	536,118
578,000	France Government Bond OAT	530,566
578,000	France Government Bond OAT	526,451
537,000	France Government Bond OAT	526,400
509,000	France Government Bond OAT	515,709
510,000	Italy Buoni Poliennali Del Tesoro	515,089
502,000	Spain Government Bond	509,950
414,000	Bundesrepublik Deutschland Bundesanleihe	498,414
566,000	Spain Government Bond	493,939
361,000	France Government Bond OAT	486,766
372,000	France Government Bond OAT	486,659
565,000	France Government Bond OAT	476,074

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders UK Gilt 1-5 yr UCITS ETF

### Purchases

Cost GBP	Description	Nominal Holding or Shares
4,815,938	UK Gilt	4,946,000
4,095,608	uk Gilt	4,412,000
3,466,502	uk Gilt	3,592,000
3,229,925	UK Gilt	3,418,000
2,809,903	uk Gilt	2,859,000
2,743,339	UK Gilt	2,936,000
2,628,464	UK Gilt	2,622,000
2,624,991	UK Gilt	2,557,000
2,432,725	UK Gilt	2,504,000
2,391,619	UK Gilt	2,429,000
2,344,359	UK Gilt	2,304,000
2,086,485	UK Gilt	1,932,000
1,667,768	UK Gilt	1,651,000
1,291,491	UK Gilt	1,299,000
1,281,547	UK Gilt	1,260,000

Nominal Holding or Shares	Description	Proceed GBP
4,922,000	UK Gilt	4,740,199
4,073,243	UK Gilt	4,740,199
3,659,994	UK Gilt	3,619,318
3,426,000	UK Gilt	3,019,310
2,175,000	UK Gilt	2,055,360
1,650,000	UK Gilt	1,552,029
1,515,000	UK Gilt	1,468,712
1,577,000	UK Gilt	1,412,414
1,441,000	UK Gilt	1,398,395
1,323,000	UK Gilt	1,314,496
1,082,000	UK Gilt	1,126,931
1,049,000	UK Gilt	924,667
811,000	UK Gilt	751,881
13,000	UK Gilt	13,345

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF

### Purchases

Nominal Holding or Shares	Description	Cost USD
2,194,152	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	2,194,152
2,355	Apple, Inc.	354,909
1,219	Microsoft Corp.	311,626
1,098	Amazon.com, Inc.	177,600
436	Tesla, Inc.	138,420
649	Alphabet, Inc. 'A'	102,907
572	Alphabet, Inc. 'C'	91,389
291	Berkshire Hathaway, Inc. 'B'	88,292
152	UnitedHealth Group, Inc.	79,620
411	NVIDIA Corp.	76,468
428	Johnson & Johnson	73,536
479	JPMorgan Chase & Co.	66,841
662	Exxon Mobil Corp.	65,931
356	Meta Platforms, Inc. 'A'	62,359
382	Procter & Gamble Co. (The)	55,026
261	Visa, Inc. 'A'	53,791
314	Chevron Corp.	51,686
162	Home Depot, Inc. (The)	51,515
935	Pfizer, Inc.	46,568
135	Mastercard, Inc. 'A'	46,022

Nominal Holding or Shares	Description	Proceed USD
2,196,725	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	2,196,725
909	Apple, Inc.	134,916
384	Microsoft Corp.	92,824
456	Amazon.com, Inc.	44,287
348	Alphabet, Inc. 'C'	37,185
309	Alphabet, Inc. 'A'	30,545
174	Chevron Corp.	29,938
97	Berkshire Hathaway, Inc. 'B'	29,787
238	Exxon Mobil Corp.	26,549
138	Tesla, Inc.	25,795
48	UnitedHealth Group, Inc.	24,553
135	Johnson & Johnson	23,417
129	NVIDIA Corp.	20,524
151	JPMorgan Chase & Co.	20,101
91	Visa, Inc. 'A'	19,160
148	Meta Platforms, Inc. 'A'	18,982
131	Procter & Gamble Co. (The)	18,636
58	Home Depot, Inc. (The)	18,259
418	Bank of America Corp.	15,666
45	Mastercard, Inc. 'A'	15,397

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Small Cap Equity UCITS ETF\*

### Purchases

Nominal Holding or Shares	Description	Cost USD
387	LPL Financial Holdings, Inc.	87,382
269	Carlisle Cos., Inc.	80,380
1,775	EQT Corp.	79,674
998	Liberty Media CorpLiberty Formula One 'C'	64,631
277	Nordson Corp.	62,920
646	Booz Allen Hamilton Holding Corp. 'A'	61,999
1,255	Ovintiv, Inc.	61,637
1,237	Gaming & Leisure Properties, Inc., REIT	61,108
833	Ares Management Corp. 'A'	60,434
2,597	First Horizon Corp.	59,308
126	Fair Isaac Corp.	58,788
603	Wolfspeed, Inc.	58,504
1,642	APA Corp.	58,227
784	Darling Ingredients, Inc.	57,725
595	Chesapeake Energy Corp.	57,535
1,147	Essential Utilities, Inc.	57,399
250	Repligen Corp.	57,298
480	First Solar, Inc.	57,024
626	RPM International, Inc.	56,685
299	Reliance Steel & Aluminum Co.	55,733

Nominal Holding or Shares	Description	Proceed USD
387	LPL Financial Holdings, Inc.	80,201
480	First Solar, Inc.	74,342
1,642	APA Corp.	71,663
646	Booz Allen Hamilton Holding Corp. 'A'	67,029
1,775	EOT Corp.	66,101
1,846	Healthcare Realty Trust, Inc. 'A'	35,051
139		
	Aspen Technology, Inc.	27,954
423	U-Haul Holding Co.	22,568
479	Noble Corp. plc	16,521
551	RXO, Inc.	10,502
349	Archaea Energy, Inc. 'A'	9,075
261	Brigham Minerals, Inc. 'A'	8,483
80	Chesapeake Energy Corp.	8,046
2	Seaboard Corp.	7,475
124	Builders FirstSource, Inc.	7,368
44	Avis Budget Group, Inc.	7,046
83	Ares Management Corp. 'A'	6,197
8	First Citizens BancShares, Inc. 'A'	6,031
95	Civitas Resources, Inc.	5,887
20	Carlisle Cos., Inc.	4.937

<sup>\*</sup>Sub-Fund launched on 9 August 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-1 yr UCITS ETF

### Purchases

Nominal Holding or Shares	Description	Cost USD
111,771,000	US Treasury Bill	111,466,902
106,313,000	US Treasury Bill	105,385,929
102,890,000	US Treasury Bill	102,758,309
100,570,000	US Treasury Bill	100,158,608
97,540,000	US Treasury Bill	97,374,916
95,500,000	US Treasury Bill	95,242,885
95,544,000	US Treasury Note	93,675,523
91,882,000	US Treasury Bill	91,879,493
90,638,000	US Treasury Bill	90,459,427
89,270,000	US Treasury Bill	89,109,837
86,830,000	US Treasury Bill	86,487,164
86,347,000	US Treasury Bill	85,738,950
85,688,000	US Treasury Note	84,601,136
84,969,000	US Treasury Bill	84,461,803
84,767,000	US Treasury Bill	84,378,806
83,462,000	US Treasury Bill	82,109,732
82,515,000	US Treasury Bill	81,841,323
81,650,000	US Treasury Bill	80,926,229
81,007,000	Us Treasury Bill	80,699,521
80,190,000	US Treasury Bill	79,351,714

Nominal Holding or Shares	Description	Proceed USD
79,520,000	US Treasury Note	79,560,994
61,920,000	US Treasury Bill	61,837,487
56,108,000	US Treasury Bill	55,814,519
49,144,000	US Treasury Note	48,052,441
48,450,000	US Treasury Note	46,991,994
46,538,000	US Treasury Note	46,041,075
43,300,000	US Treasury Note	43,108,695
42,159,000	US Treasury Note	41,681,857
40,950,000	US Treasury Bill	40,861,109
39,360,000	US Treasury Note	39,545,908
35,830,000	US Treasury Note	35,944,759
31,775,000	US Treasury Note	31,871,804
30,562,000	US Treasury Bill	30,549,493
25,850,000	US Treasury Bill	25,749,595
25,990,000	US Treasury Note	25,496,596
24,949,000	US Treasury Note	24,965,568
25,099,000	US Treasury Note	24,446,046
22,144,000	US Treasury Bill	22,009,681
21,244,000	US Treasury Note	21,217,192
21,676,000	US Treasury Bill	21,207,162
20,460,000	US Treasury Note	20,182,682
19,810,000	US Treasury Note	19,281,239
19,810,000	US Treasury Bill	19,157,811
19,430,000	US Treasury Note	18,749,950
18,528,000	US Treasury Note	18,130,228
17,430,000	US Treasury Note	17,360,873
17,430,000	US Treasury Note	17,353,744
17,470,000	US Treasury Note	17,055,996
16,700,000	US Treasury Note	16,567,316
16,430,000	US Treasury Bill	15,997,705
15,706,000	US Treasury Bill	15,469,968
15,860,000	US Treasury Note	15,333,635
15,253,000	US Cash Management Bill	15,250,414
15,183,000	US Treasury Note	15,223,330
15,166,000	US Treasury Note	15,193,552
15,201,000	US Treasury Note	15,144,950
15,000,000	US Treasury Bill	14,998,495
15,000,000	US Treasury Bill	14,997,511
15,000,000	US Treasury Bill	14,997,285
14,998,000	US Treasury Bill	14,996,772

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-3 Months UCITS ETF

### Purchases

	Description	Nominal Holding or Shares
271,826,879	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	271,826,879
21,871,785	US Treasury Bill	21,917,800
16,048,195	US Treasury Bill	16,055,800
15,239,517	US Treasury Bill	15,260,000
13,928,165	US Treasury Bill	13,945,400
13,901,347	US Treasury Bill	13,950,000
13,189,393	US Treasury Bill	13,203,200
13,029,546	US Treasury Note	13,042,100
12,870,640	US Treasury Bill	12,920,000
12,201,391	US Treasury Bill	12,250,000
11,825,206	US Treasury Bill	11,870,000
11,781,031	US Treasury Note	11,771,300
11,756,075	US Treasury Bill	11,790,000
11,666,901	US Treasury Bill	11,710,000
11,556,203	US Treasury Bill	11,600,000
11,470,831	US Treasury Bill	11,485,600
11,395,215	US Treasury Note	11,387,600
11,201,979	US Treasury Bill	11,250,000
11,081,016	US Treasury Bill	11,087,600
10,801,108	US Treasury Bill	10,870,000

Nominal Holding or Shares	Description	Proceed USD
273,117,845	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	273,117,845
15,040,000	US Treasury Bill	15,019,856
10,800,000	US Treasury Bill	10,793,562
9,290,000	US Treasury Bill	9,259,781
8,790,000	US Treasury Bill	8,776,324
8,390,000	US Treasury Bill	8,381,775
8,080,000	US Treasury Note	8,079,459
7,490,000	US Cash Management Bill	7,478,146
7,190,000	US Treasury Bill	7,173,905
7,100,000	US Treasury Bill	7,075,967
6,060,000	US Treasury Note	6,053,791
5,613,200	US Treasury Note	5,598,512
5,170,000	US Treasury Bill	5,157,980
5,100,000	US Treasury Bill	5,084,228
5,020,000	US Treasury Bill	5,011,221
5,000,000	US Treasury Bill	4,991,442
4,000,000	US Treasury Note	3,995,313
4,000,000	US Treasury Bill	3,994,825
4,000,000	US Treasury Note	3,991,719
3,990,000	US Treasury Bill	3,978,995

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 1-3 yr UCITS ETF

### Purchases

Nominal Holding or Shares	Description	Cost USD
6,012,000	US Treasury Note	5,634,691
4,617,000	US Treasury Note	4,230,423
4,507,000	US Treasury Note	4,185,100
4,258,000	US Treasury Note	3,790,197
3,655,000	US Treasury Note	3,444,116
3,000,000	US Treasury Note	2,947,891
3,170,000	US Treasury Note	2,912,308
2,900,000	US Treasury Note	2,778,039
2,855,000	US Treasury Note	2,705,794
2,744,000	US Treasury Note	2,668,839
2,759,000	US Treasury Note	2,636,837
2,721,000	US Treasury Note	2,611,851
2,743,000	US Treasury Note	2,438,193
2,482,000	US Treasury Note	2,429,665
2,631,000	US Treasury Note	2,343,974
2,565,000	US Treasury Note	2,326,457
2,452,000	US Treasury Note	2,307,276
2,370,000	US Treasury Note	2,274,066
2,459,000	US Treasury Note	2,201,958
2,244,000	US Treasury Note	2,139,822
2,077,000	US Treasury Note	2,038,483
2,022,000	US Treasury Note	1,984,336
1,926,000	US Treasury Note	1,932,864
1,934,000	US Treasury Note	1,915,004
1,887,000	US Treasury Note	1,814,951
1,768,000	US Treasury Note	1,741,291
1,789,000	US Treasury Note	1,709,332
1,711,000	US Treasury Note	1,683,812
1,606,000	US Treasury Bond	1,664,218
1,670,000	US Treasury Note	1,651,612
1,459,000	US Treasury Bond	1,640,499
1,768,000	US Treasury Note	1,581,117
1,612,000	US Treasury Note	1,579,296
1,569,000	US Treasury Note	1,546,152
1,530,000	US Treasury Note	1,518,554
1,518,000	US Treasury Note	1,469,225
1,449,000	US Treasury Note	1,430,805
1,461,000	US Treasury Note	1,417,245
1,412,000	US Treasury Note	1,371,626
1,440,000	US Treasury Note	1,362,291
1,364,000	US Treasury Note	1,337,396

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 1-3 yr UCITS ETF (continued)

Nominal Holding or Shares	Description	Proceed USD
12,238,000	US Treasury Note	12,015,108
12,340,000	US Treasury Note	11,866,756
8,061,000	US Treasury Note	7,898,765
6,345,000	US Treasury Note	6,100,999
5,614,000	US Treasury Note	5,526,250
5,454,000	US Treasury Note	5,199,031
4,255,000	US Treasury Note	4,306,793
3,608,000	US Treasury Note	3,414,211
3,449,000	US Treasury Note	3,390,793
3,387,000	US Treasury Note	3,241,751
3,340,000	US Treasury Note	3,223,049
3,207,000	US Treasury Note	3,065,669
3,037,000	US Treasury Note	2,966,101
3,074,000	US Treasury Note	2,942,748
2,864,000	US Treasury Note	2,901,116
2,825,000	US Treasury Note	2,840,902
2,744,000	US Treasury Note	2,632,611
2,824,000	US Treasury Note	2,556,271
2,522,000	US Treasury Note	2,538,505
2,529,000	US Treasury Note	2,532,645
2,635,000	US Treasury Note	2,516,698
2,595,000	US Treasury Note	2,474,381
2,425,000	US Treasury Note	2,442,771
2,417,000	US Treasury Note	2,389,446
2,344,000	US Treasury Note	2,332,632
2,508,000	US Treasury Note	2,279,546
2,179,000	US Treasury Note	2,192,368
2,176,000	US Treasury Note	2,173,502
2,145,000	US Treasury Note	2,142,241
2,167,000	US Treasury Note	2,126,858
2,108,000	US Treasury Note	2,052,149
1,877,000	US Treasury Note	1,874,003
1,808,000	US Treasury Note	1,757,727
1,906,000	US Treasury Note	1,699,169

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond UCITS ETF

### Purchases

Cos US	Description	Nominal Holding or Shares
10,594,38	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	10.594.389
6,001,28	US Treasury Note	6,447,000
5,987,44	US Treasury Note	6,542,000
5,770,90	US Treasury Bond	6,217,000
5,769,64	US Treasury Note	6,520,000
5,233,97	US Treasury Note	5,983,000
4.918.75	US Treasury Note	4,962,000
4,690,89	US Treasury Note	4,706,000
4,689,43	US Treasury Note	5,322,000
4,610,27	US Treasury Bond	6,085,000
4,565,21	US Treasury Note	4,544,000
4,535,16	US Treasury Note	5,579,000
4,499,96	US Treasury Note	4,813,000
4,441,52	US Treasury Bond	5,293,000
4,317,19	US Treasury Note	4,707,000
4,220,58	US Treasury Note	4,604,000
4,178,94	US Treasury Note	4,287,000
4,159,73	US Treasury Note	4,378,000
4,067,86	US Treasury Bond	4,954,000
4,024,54	US Treasury Note	4,535,000
4,002,67	US Treasury Bond	4.599.000
3,969,57	US Treasury Note	3,998,000
3,963,75	US Treasury Note	4,044,000
3.946.26	US Treasury Note	4,092,000
3,918,04	US Treasury Note	4,095,000

Nominal Holding or Shares	Description	Proceed USD
10,582,155	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	10,582,155
6,542,000	US Treasury Note	5,595,354
5,218,000	US Treasury Note	5,226,148
5,685,000	US Treasury Note	5,176,110
4,904,000	US Treasury Note	4,802,679
5,295,000	US Treasury Note	4,677,999
4,841,000	US Treasury Note	4,627,413
5,322,000	US Treasury Note	4,473,812
4,707,000	US Treasury Note	4,242,673
4,208,000	US Treasury Note	3,857,962
3,851,000	US Treasury Note	3,851,000
3,809,000	US Treasury Note	3,809,932
4,638,000	US Treasury Note	3,742,375
3,892,000	US Treasury Note	3,691,981
3,611,000	US Treasury Note	3,602,052
4,954,000	US Treasury Bond	3,436,899
3,915,000	US Treasury Note	3,412,930
3,305,000	US Treasury Note	3,301,514
3,311,000	US Treasury Note	3,299,320
3,397,000	US Treasury Note	3,265,809
3,525,000	US Treasury Bond	3,210,511
3,275,000	US Treasury Note	3,195,717
3,470,000	US Treasury Note	3,024,178
3,091,000	US Treasury Note	2,961,049
4,626,000	US Treasury Bond	2,945,362
3,342,000	US Treasury Note	2,811,698
2,881,000	US Treasury Note	2,811,038
3,055,000	US Treasury Note	2,729,763
2,948,000	US Treasury Note	2,696,028
2,294,000	US Treasury Bond	2,682,308
2,721,000	US Treasury Note	2,650,626
2,687,000	US Treasury Note	2,596,533
2,771,000	US Treasury Note	2,587,793
2,939,000	US Treasury Note	2,566,133

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Carbon Transition China Equity (CTB) UCITS ETF\*

### Purchases

Nominal Holding or Shares	Description	Cost USD
15,900	Tencent Holdings Ltd.	637,820
4,802	Alibaba Group Holding Ltd. ADR	439,143
10,100	Meituan 'B'	225,790
283,000	China Construction Bank Corp. 'H'	172,898
2,785	JD.com. Inc. ADR	168,077
1,677	Pinduoduo, Inc. ADR	145,892
19,900	Ping An Insurance Group Co. of China Ltd. 'A'	135,087
203,700	Industrial & Commercial Bank of China Ltd. 'A'	125,627
897	Baidu, Inc. ADR	105,245
2,700	BYD Co. Ltd. 'A'	103,387
291,000	Bank of China Ltd. 'H'	101,437
9,000	Li Ning Co. Ltd.	71,903
2,077	Trip.com Group Ltd. ADR	68,769
5,200	ANTA Sports Products Ltd.	64,545
911	NetEase, Inc. ADR	62,139
20,500	China Overseas Land & Investment Ltd.	54,979
131,500	Agricultural Bank of China Ltd. 'A'	54,380
10,100	China Merchants Bank Co. Ltd. 'A'	51,812
7,500	Wuxi Biologics Cayman, Inc.	51,226
16,000	BOC Hong Kong Holdings Ltd.	50,216
C-1		

Nominal Holding or Shares	Description	Proceed USD
26 700	Beijing-Shanghai High Speed Railway Co. Ltd. 'A'	19 107

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF

### Purchases

Co US	Description	Nominal Holding or Shares
7,937,11	Apple, Inc.	59,382
6,465,32	Microsoft Corp.	26,645
4,211,21	Alphabet, Inc. 'A'	45,860
2,292,03	Johnson & Johnson	13,029
2,275,21	Amazon.com, Inc.	25,788
1,863,87	NVIDIA Corp.	11,543
1,833,65	Eli Lilly & Co.	5,106
1,753,54	Tesla, Inc.	11,491
1,727,48	AbbVie, Inc.	10,779
1,725,42	Merck & Co., Inc.	15,798
1,722,78	NextEra Energy, Inc.	20,550
1,660,95	PepsiCo, Inc.	9,176
1,553,92	Nestle SA	13,413
1,487,86	Union Pacific Corp.	7,034
1,465,77	LVMH Moet Hennessy Louis Vuitton SE	2,020
1,434,09	AstraZeneca plc	10,631
1,352,94	Roche Holding AG	4,211
1,329,87	Bristol-Myers Squibb Co.	18,230
1,323,56	Texas Instruments, Inc.	7,937
1,320,78	Novartis AG	14,652

Nominal Holding or Shares	Description	Proceed USD
4,133	General Electric Co.	356,382
1,769	Siemens AG	232,029
1,075	Target Corp.	214,753
784	Caterpillar, Inc.	185,345
2,531	Occidental Petroleum Corp.	175,879
1,850	Sysco Corp.	160,044
13,742	Iberdrola SA	154,557
634	L3Harris Technologies, Inc.	152,833
1,272	ConocoPhillips	147,673
4,424	ABB Ltd.	135,598
8,685	Ford Motor Co.	133,034
856	Sempra Energy	129,824
698	Eaton Corp. plc	114,088
880	Safran SA	113,371
1,834	Public Service Enterprise Group, Inc.	111,049
1,700	Gilead Sciences, Inc.	110,245
6,065	Australia & New Zealand Banking Group Ltd.	108,942
311	Eli Lilly & Co.	103,440
754	Walmart, Inc.	101,911
632	AbbVie, Inc.	96,238
1,539	ONEOK, Inc.	94,730
2,439	General Motors Co.	94,298
4,900	Toyota Motor Corp.	90,980
1,201	Hartford Financial Services Group, Inc. (The)	90,821
796	Ferguson plc	88,832
573	American Water Works Co., Inc.	86,666
22,283	Tesco plc	86,630
405	Biogen, Inc.	85,459
1,388	TotalEnergies SE	82,573
1,700	Seven & i Holdings Co. Ltd.	82,524
887	WEC Energy Group, Inc.	80,611
616	DTE Energy Co.	80,289

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - China A Research Enhanced Index Equity (ESG) UCITS ETF\*

### Purchases

Nominal Holding or Shares	Description	Cost USD
2,100	Kweichow Moutai Co. Ltd. 'A'	624,011
4,400	Contemporary Amperex Technology Co. Ltd. 'A'	361,817
37,400	China Merchants Bank Co. Ltd. 'A'	293,039
7,300	Wuliangye Yibin Co. Ltd. 'A'	227,532
21,500	Ping An Insurance Group Co. of China Ltd. 'A'	179,071
42,900	China Yangtze Power Co. Ltd. 'A'	156,335
40,600	Industrial Bank Co. Ltd. 'A'	139,508
2,600	Shenzhen Mindray Bio-Medical Electronics Co. Ltd. 'A'	130,494
8,300	Foshan Haitian Flavouring & Food Co. Ltd. 'A'	126,819
124,200	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	124,200
12,000	LONGi Green Energy Technology Co. Ltd. 'A'	120,455
16,500	Luxshare Precision Industry Co. Ltd. 'A'	115,449
3,000	BYD Co. Ltd. 'A'	112,497
43,000	Ping An Bank Co. Ltd. 'A'	110,121
7,100	Wanhua Chemical Group Co. Ltd. 'A'	107,659
137,200	Industrial & Commercial Bank of China Ltd. 'A'	103,067
15,400	Jiangsu Hengrui Medicine Co. Ltd. 'A'	98,855
15,500	Inner Mongolia Yili Industrial Group Co. Ltd. 'A'	97,196
25,000	CITIC Securities Co. Ltd. 'A'	96,130
14,700	Bank of Ningbo Co. Ltd. 'A'	90,266

Nominal Holding or Shares	Description	Proceed USD
124,200	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	124,200
35,700	Guanghui Energy Co. Ltd. 'A'	62,375
700	Contemporary Amperex Technology Co. Ltd. 'A'	48,570
7,100	Laobaixing Pharmacy Chain JSC 'A'	39,990
11,700	TongFu Microelectronics Co. Ltd. 'A'	34,407
16,500	Universal Scientific Industrial Shanghai Co. Ltd. 'A'	32,324
800	NAURA Technology Group Co. Ltd. 'A'	31,759
12,400	Ningbo Joyson Electronic Corp. 'A'	31,610
13,300	China Merchants Shekou Industrial Zone Holdings Co. Ltd. 'A'	31,585
2,300	Shennan Circuits Co. Ltd. 'A'	27,937
5,200	GoerTek, Inc. 'A'	27,535
1,600	Sungrow Power Supply Co. Ltd. 'A'	26,907
37,900	Beijing-Shanghai High Speed Railway Co. Ltd. 'A'	26,208
4,700	Hundsun Technologies, Inc. 'A'	26,099
5,000	Livzon Pharmaceutical Group, Inc. 'A'	24,187
804	CanSino Biologics, Inc. 'A'	20,508
1,000	Anjoy Foods Group Co. Ltd. 'A'	18,663
4,000	Zhongji Innolight Co. Ltd. 'A'	18,542
5,400	Lepu Medical Technology Beijing Co. Ltd. 'A'	18,462
2,200	Guangdong Haid Group Co. Ltd. <sup>1</sup> A'	18,377
900	Yunnan Energy New Material Co. Ltd. 'A'	18,002
7,300	Ningxia Baofeng Energy Group Co. Ltd. 'A'	17,675
1,320	Advanced Micro-Fabrication Equipment, Inc. China 'A'	17,588
22,200	Zoomlion Heavy Industry Science & Technology Co. Ltd. 'A'	17,281
2,400	Autobio Diagnostics Co. Ltd. 'A'	17,122
6,500	Poly Developments & Holdings Group Co. Ltd. 'A'	16,557
1,200	Eve Energy Co. Ltd. 'A'	16,302
7,300	Beijing Sinnet Technology Co. Ltd. 'A'	16,245
2,100	Tongwei Co. Ltd. 'A'	15,414
4,000	Zhejiang Chint Electrics Co. Ltd. 'A'	15,349
4,000	Hefei Meiya Optoelectronic Technology, Inc. 'A'	15,030
600	SG Micro Corp. 'A'	14,732

<sup>\*</sup>Sub-Fund launched on 15 February 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Climate Change Solutions UCITS ETF\*

### Purchases

Nominal Holding or Shares	Description	Cost USD
2,916,498	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	2,916,498
7,386	NextEra Energy, Inc.	555,217
1,603	Deere & Co.	535,008
3,992	Trane Technologies plc	533,566
20,857	Infineon Technologies AG	529,317
4,291	Schneider Electric SE	527,882
18,693	ABB Ltd.	513,543
39,994	CNH Industrial NV	508,624
14,837	Weyerhaeuser Co., REIT	502,614
8,037	Mercedes-Benz Group AG	501,460
5,956	Xylem, Inc.	486,906
1,200	Keyence Corp.	480,894
4,312	AGCO Corp.	472,513
1,809	Sika AG	465,911
2,538	Autodesk, Inc.	461,626
5,631	West Fraser Timber Co. Ltd.	459,773
14,083	UPM-Kymmene OYJ	454,755
43,533	Iberdrola SA	446,968
11,555 1,030	Dassault Systemes SE	446,626 431,399
9,797	Samsung SDI Co. Ltd. Carrier Global Corp.	362,105
5,300	Contemporary Amperex Technology Co. Ltd. 'A'	351,396
11,798	Prysmian SpA	331,340
1,646	Enphase Energy, Inc.	340,473
9,635	Boliden AB	334,960
2,408	Tetra Tech, Inc.	310,849
8,473	Evoqua Water Technologies Corp.	282,875
1,800	Daikin Industries Ltd.	280,056
4,045	Kingspan Group plc	271,957
2,244	TE Connectivity Ltd.	268,894
979	SolarEdge Technologies, Inc.	263,889
1,810	Koninklijke DSM NV	258,629
34,418	Nibe Industrier AB 'B'	257,061
28,700	Tongwei Co. Ltd. 'A'	222,829
10,463	Solaria Energia y Medio Ambiente SA	210,649
5,827	Rayonier, Inc., REIT	200,027

Nominal Holding or Shares	Description	Proceed USD
2,598,028	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	2,598,028
7,385	Boliden AB	232,702
14,167	CNH Industrial NV	212,086
1,627	AGCO Corp.	201,738
404	Samsung SDI Co. Ltd.	199,458
662	Enphase Energy, Inc.	192,491
2,800	Contemporary Amperex Technology Co. Ltd. 'A'	175,624
404	Deere & Co.	162,469
1,256	Koninklijke DSM NV	149,470
4,773	ABB Ltd.	145,283
1,180	TE Connectivity Ltd.	140,621
930	Trane Technologies plc	136,132
2,442	Johnson Controls International plc	132,519
16,695	Nibe Industrier AB 'B'	132,314
4,741	Infineon Technologies AG	121,290
3,493	Weyerhaeuser Co., REIT	118,958
2,585	Neste OYJ	116,840
4,486	Encavis AG	92,197
1,504	Mercedes-Benz Group AG	91,085
982	NextEra Energy, Inc.	88,080
374	Lennox International, Inc.	82,464
4,000	RENOVA, Inc.	80,846
200	Keyence Corp.	80,695
792	Xylem, Inc.	78,281
570	Schneider Electric SE	75,715
5,701	Electrolux AB 'B'	74,830
338	Autodesk, Inc.	74,695

<sup>\*</sup>Sub-Fund launched on 14 June 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF

### Purchases

Nominal Holding or Shares	Description	Cost EUR
646,000	DNB Bank ASA, FRN	599,153
500,000	Deutsche Bank AG	495,890
428,000	Dow Chemical Co. (The)	402,412
430,000	Wolters Kluwer NV	402,251
400,000	General Electric Co.	392,192
400,000	American Medical Systems Europe BV	389,230
400,000	BP Capital Markets plc	384,230
400,000	BNP Paribas SA, FRN	376,652
400,000	GSK Consumer Healthcare Capital NL BV	373,142
412,000	CK Hutchison Group Telecom Finance SA	371,930
390,000	Sodexo SA	371,070
400,000	Equinix, Inc.	368,378
400,000	CaixaBank SA, FRN	359,900
400,000	KBC Group NV	350,168
341,000	Nestle Finance International Ltd.	336,916
331,000	Macquarie Group Ltd.	312,955
300,000	ENI SpA	303,882
300,000	KBC Group NV	298,890
300,000	Siemens Financieringsmaatschappij NV	297,928
300,000	BPCE SA, FRN	294,207
317,000	International Flavors & Fragrances, Inc.	289,492
300,000	Commerzbank AG	275,936
320,000	Bank of America Corp.	268,375
300,000	Morgan Stanley, FRN	261,037
250,000	Intesa Sanpaolo SpA	254,598
250,000	National Grid North America, Inc.	252,368
250,000	SELP Finance Sarl	249,663
261,000	Barclays plc, FRN	237,684

Nominal Holding or Shares	Description	Proceed EUR
623,000	UBS Group AG, FRN	599,995
600,000	BPCE SA	589,121
550,000	Glencore Finance Europe Ltd.	542,790
500,000	SSE plc	501,224
500,000	Barclays plc	498,529
500,000	AstraZeneca plc	490,519
475,000	Mercedes-Benz International Finance BV	487,666
497,000	DNB Bank ASA, FRN	436,243
400,000	Nissan Motor Co. Ltd.	398,039
400,000	Vantage Towers AG	380,546
400,000	General Electric Co.	373,052
418,000	Nordea Bank Abp, FRN	364,005
428,000	Dow Chemical Co. (The)	363,319
360,000	Medtronic Global Holdings SCA	361,465
360,000	Goldman Sachs Group, Inc. (The)	353,821
358,000	Mercedes-Benz International Finance BV	325,268
326,000	Bank of America Corp.	321,993
322,000	CK Hutchison Group Telecom Finance SA	312,050
300,000	American Tower Corp.	300,756
300,000	Morgan Stanley	294,065

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF

### Purchases

Nominal Holding or Shares	Description	Cost EUR
1,328,000	Scentre Group Trust 1 / Scentre Group Trust 2	1,329,436
1,440,000	Holcim Finance Luxembourg SA	1,063,827
1,100,000	American Medical Systems Europe BV	1,023,130
1,023,000	General Electric Co.	997,186
1,000,000	Goldman Sachs Group, Inc. (The)	915,200
900,000	International Flavors & Fragrances, Inc.	812,565
918,000	Koninklijke DSM NV	800,262
813,000	Nestle Finance International Ltd.	779,838
767,000	Illinois Tool Works, Inc.	770,129
800,000	Bankinter SA, FRN	697,127
700,000	Wolters Kluwer NV	689,955
700,000	Morgan Stanley	675,083
698,000	Intesa Sanpaolo SpA	668,565
704,000	Thames Water Utilities Finance plc	640,989
700,000	Societe Generale SA, FRN	638,218
800,000	APA Infrastructure Ltd.	634,076
650,000	American Medical Systems Europe BV	611,363
678,000	Abbott Ireland Financing DAC	607,184
700,000	CaixaBank SA, FRN	604,282
600,000	Apple, Inc.	585,426

Nominal Holding or Shares	Description	Proceed EUR
1,670,000	Medtronic Global Holdings SCA	1,644,098
1,500,000	Vantage Towers AG	1,406,292
1,500,000	Societe Generale SA, FRN	1,321,766
1,350,000	Mercedes-Benz International Finance BV	1,272,110
1,100,000	Societe Generale SA, FRN	1,101,155
1,090,000	Toyota Motor Credit Corp.	987,993
1,150,000	Tesco Corporate Treasury Services plc	916,121
1,000,000	Societe Generale SA, FRN	903,861
900,000	ING Groep NV, FRN	900,396
900,000	CaixaBank SA, FRN	879,920
1,000,000	Apple, Inc.	875,833
900,000	Terna - Rete Elettrica Nazionale	852,299
1,023,000	General Electric Co.	834,672
850,000	HeidelbergCement AG	824,859
825,000	Goldman Sachs Group, Inc. (The)	776,054
800,000	Nordea Bank Abp, FRN	769,844
788,000	Unilever Finance Netherlands BV	768,418
900,000	Coca-Cola Co. (The)	758,279
890,000	CK Hutchison Group Telecom Finance SA	739,857
800,000	Unibail-Rodamco-Westfield SE	736,356

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF

#### Purchases

Cost EUR	Description	Nominal Holding or Shares
93,470,591	JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund - Class X (flex dist.)	9,497
39,998,445	Agence Centrale	40,000,000
39,998,211	Belgium Euro Commercial Paper	40,000,000
39,997,589	NRW.BANK	40,000,000
39,995,023	BNG Bank NV	40,000,000
39,995,023	BNG Bank NV	40,000,000
39,992,779	BNG Bank NV	40,000,000
39,989,114	BNG Bank NV	40,000,000
39,989,114	BNG Bank NV	40,000,000
39,989,114	BNG Bank NV	40,000,000
39,981,708	Agence Centrale	40,000,000
29,996,792	Skandinaviska Enskilda Banken AB	30,000,000
29,996,326	Skandinaviska Enskilda Banken AB	30,000,000
29,996,326	Skandinaviska Enskilda Banken AB	30,000,000
25,002,771	Belfius Bank SA	25,000,000
24,972,426	Austrian Commercial Paper	25,000,000
24,290,726	Japan Treasury Discount Bill	3,500,000,000
24,137,543	Japan Treasury Discount Bill	3,500,000,000
21,994,013	BNG Bank NV	22,000,000
21,988,029	BNG Bank NV	22,000,000

Nominal Holding or Shares	Description	Proceed EUR
5,674	JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund - Class X (flex dist.)	55,820,796
20,000,000	Bundesschatzanweisungen	20,148,900
7,400,000	JDE Peet's NV	7,351,604
7,470,000	THL Credit Wind River 2014-2 CLO Ltd. 'AR', FRN	6,717,769
6,200,000	Banque Federative du Credit Mutuel SA	6,255,013
5,500,000	Wintershall Dea Finance BV	5,516,390
5,500,000	SAP SE	5,511,385
5,000,000	CaixaBank SA	5,124,800
5,000,000	EssilorLuxottica SA	5,007,850
5,000,000	Coca-Cola HBC Finance BV	5,001,639
5,276,526	Dryden Senior Loan Fund 'AR', FRN	4,740,298
4,682,000	Daimler International Finance BV	4,733,736
5,000,000	MP CLO III Ltd. 'AR', FRN	4,583,774
4,500,000	BASF SE	4,513,095
5,000,000	Citigroup, Inc., FRN	4,484,995
5,000,000	Sound Point CLO II Ltd. 'AR1', FRN	4,456,091
4,000,000	E.ON SE	4,021,760
4,000,000	Schneider Electric SE	4,007,160
4,000,000	Coca-Cola Europacific Partners plc	3,606,838
4,000,000	SA Global Sukuk Ltd.	3,588,224
4,000,000	CIFC Funding 2017-V Ltd. 'AI', FRN	3,579,410
3,610,000	Galaxy XXI CLO Ltd. 'AR', FRN	3,288,849
3,250,000	CK Hutchison Group Telecom Finance SA	3,250,065
3,000,000	Cie de Saint-Gobain	3,042,750
3,000,000	Jefferies Financial Group, Inc.	3,025,200
3,000,000	GlaxoSmithKline Capital plc	3,004,920
3,000,000	Mizuho Financial Group Cayman 3 Ltd.	2,799,270
2,800,000	Traton Finance Luxembourg SA	2,768,780
3,000,000	LCM XIV LP 'AR', FRN	2,693,020
2,805,000	Octagon Investment Partners 35 Ltd. 'A1A', FRN	2,641,854
2,500,000	EssilorLuxottica SA	2,508,650

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Europe Research Enhanced Index Equity (ESG) UCITS ETF

#### Purchases

Description		Cost EUR
JPMorgan Liquidity Funds - EUR Liquidity	Fund - Class X (flex dist.)	116,038,045
Shell plc		10,869,293
Nestle SA		9,225,171
Roche Holding AG		7,921,035
ASML Holding NV		7,294,691
Novo Nordisk A/S 'B'		5,861,416
AstraZeneca plc		5,554,971
LVMH Moet Hennessy Louis Vuitton SE		5,550,893
TotalEnergies SE		5,421,463
Novartis AG		5,411,460
Diageo plc		4,264,252
BP plc		4,259,536
L'Oreal SA		3,845,218
Lonza Group AG		3,788,300
SSE plc		3,757,873
Sika AG		3,635,608
Vinci SA		3,594,335
Schneider Electric SE		3,528,958
Rio Tinto plc		3,500,919
Air Liquide SA		3,500,799

Nominal Holding or Shares	Description	Proceed EUR
11,734	JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund - Class X (flex dist.)	115,417,155
40,161	Nestle SA	4,561,411
13,183	Roche Holding AG	4,350,930
76,102	TotalEnergies SE	3,885,268
36,153	Novo Nordisk A/S 'B'	3,816,460
38,963	Novartis AG	3,196,309
6,583	ASML Holding NV	3,159,732
582,630	BP plc	2,823,447
21,907	AstraZeneca plc	2,680,063
67,699	Lundin Energy AB	2,672,687
797	Givaudan SA	2,657,754
4,282	LVMH Moet Hennessy Louis Vuitton SE	2,599,412
5,825	Zurich Insurance Group AG	2,488,109
20,333	Ferguson plc	2,467,790
94,333	Shell plc	2,441,041
32,506	Akzo Nobel NV	2,121,886
48,841	Diageo plc	2,079,619
6,010	L'Oreal SA	2,005,673
74,363	RELX plc	1,992,818
40,675	BNP Paribas SA	1,964,588

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Eurozone Research Enhanced Index Equity (ESG) UCITS ETF\*

#### Purchases

Nominal Holding or Shares	Description	Cost EUR
10,623	ASML Holding NV	5,230,375
7,125	LVMH Moet Hennessy Louis Vuitton SE	4,570,283
70,444	TotalEnergies SE	3,614,499
7,623	L'Oreal SA	2,575,702
22,360	Siemens AG	2,464,618
12,970	Allianz SE	2,308,815
18,173	Schneider Electric SE	2,278,326
17,510	Air Liquide SA	2,227,461
25,737	Sanofi	2,124,691
208,994	Iberdrola SA	2,109,340
114,181	Deutsche Telekom AG	2,073,780
21,169	SAP SE	1,927,512
20,472	Vinci SA	1,785,540
37,531	BNP Paribas SA	1,757,351
176	JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund - Class X (flex dist.)	1,734,149
5,866	Muenchener Rueckversicherungs-Gesellschaft AG in Muenchen	1,537,005
7,882	Pernod Ricard SA	1,469,897
287,293	Banco Bilbao Vizcaya Argentaria SA	1,415,517
106,943	Stellantis NV	1,392,479
8,208	Capgemini SE	1,390,868
39,394	Deutsche Post AG	1,336,674
9,716	Volkswagen AG, Preference	1,327,903
33,363	RWE AG	1,326,748
44,976	Infineon Technologies AG	1,184,232
2,344	Kering SA	1,141,042
9,260	Koninklijke DSM NV	1,141,024
10,874	Wolters Kluwer NV	1,101,646
6,150	Deutsche Boerse AG	1,047,397
42,437	AXA SA	1,047,369
18,339	Prosus NV	1,025,523
6,426	EssilorLuxottica SA	1,001,580
5,860	Merck KGaA	990,506
10,856	Heineken NV	982,269
208,864	Enel SpA	979,755

Nominal Holding or Shares	Description	Proceed EUR
126	JPMorgan Liquidity Funds - EUR Liquidity LVNAV Fund - Class X (flex dist.)	1,240,512
7,515	BNP Paribas SA	393.130
1,280	Muenchener Rueckversicherungs-Gesellschaft AG in Muenchen	366,644
4,671	Akzo Nobel NV	327,656
512	ASML Holding NV	288,468
382	LVMH Moet Hennessy Louis Vuitton SE	269,817
18,049	Stellantis NV	246,253
1,612	Siemens AG	211,457
2,995	TotalEnergies SE	174,285
3,360	Elisa OYJ	162,605
7,171	Vonovia SE	152,937
4,358	Infineon Technologies AG	137,847
8,065	Siemens Energy AG	133,699
96	Adyen NV	133,360
7,067	Endesa SA	126,661
355	L'Oreal SA	126,208
597	MTU Aero Engines AG	120,951
4,714	Erste Group Bank AG	117,797
3,378	UPM-Kymmene OYJ	117,736
23,766	Snam SpA	110,976
551	Allianz SE	110,001
1,180	Vinci SA	109,735
3,406	Zalando SE	107,997
2,433	NN Group NV	103,784
2,003	Kingspan Group plc	103,415
2,577	Ageas SA/NV	99,687
707	Schneider Electric SE	98,272
688	Air Liquide SA	96,273
1,547	Henkel AG & Co. KGaA, Preference	95,972
2,139	BASF SE	95,219
919	SAP SE	94,811
4,741	Deutsche Telekom AG	92,459

<sup>\*</sup>Sub-Fund launched on 26 April 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF

#### Purchases

Nominal Holding or Shares	Description	Cost GBP
34,574,273	JPMorgan Liquidity Funds - GBP Liquidity LVNAV Fund - Class X (dist.)	34,574,273
2,000,000	Bank of Montreal, FRN	2,000,000
2,000,000	Banco Santander SA, FRN	1,999,022
2,000,000	PACCAR Financial Corp.	1,843,325
300,000,000	Japan Treasury Discount Bill	1,812,454
300,000,000	Japan Treasury Discount Bill	1,812,432
300,000,000	Japan Treasury Discount Bill	1,787,056
1,500,000	Norinchukin Bank (The), London Branch	1,498,549
1,500,000	DZ Bank AG	1,482,234
1,500,000	Nordea Bank Abp, London Branch	1,469,231
1,500,000	Nordea Bank Abp	1,468,671
1,500,000	Kommunalbanken A/S	1,459,035
200,000,000	Japan Treasury Discount Bill	1,210,065
1,100,000	Banco Santander SA	1,099,703
1,000,000	Matchpoint Finance plc	999,774
1,000,000	BNG Bank NV	999,768
1,000,000	Matchpoint Finance plc	999,617
1,000,000	Agence Centrale	999,528
1,000,000	LMA SA	998,863
1,000,000	Transport for London	998,789
1,000,000	National Express Group plc	998,490
1,000,000	Transport for London	997,230
1,000,000	UK Treasury Bill	997,141
1,000,000	KEB Hana Bank, London Branch	996,844
1,000,000	Kookmin Bank Co. Ltd., Lodon Branch	995,386
1,000,000	Australia & New Zealand Banking Group Ltd.	987,955
1,000,000	OP Corporate Bank plc	984,488
1,000,000	Kookmin Bank Co. Ltd., Lodon Branch	977,083
900,000	Wells Fargo & Co.	876,960
800,000	Iberdrola Finanzas SA	867,040

Nominal Holding or Shares	Description	Proceed GBP
32,969,998	JPMorgan Liquidity Funds - GBP Liquidity LVNAV Fund - Class X (dist.)	32,969,998
1,000,000	BASF SE	846,105
1,000,000	Citigroup, Inc.	767,513
1,000,000	Mitsubishi UFJ Financial Group, Inc.	765,677
750,000	CK Hutchison Group Telecom Finance SA	632,750
670,745	Dryden Senior Loan Fund 'AR', FRN	505,894
600,000	JDE Peet's NV	491,106
500,000	Coca-Cola Europacific Partners plc	385,772
500,000	Sound Point CLO II Ltd. 'A1R', FRN	373,028
500,000	Athene Global Funding	364,545
300,000	EssilorLuxottica SA	253,492
300,000	BMW Finance NV	247,332
200,000	Vantage Towers AG	161,201

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF\*

#### Purchases

Nominal Holding or Shares	Description	Cost USD
247,795,326	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	247,795,326
1,306,000	Taiwan Semiconductor Manufacturing Co. Ltd.	24,838,348
385,600	Tencent Holdings Ltd.	18,485,851
314,461	Samsung Electronics Co. Ltd.	16,945,127
868,252	Alibaba Group Holding Ltd.	11,143,759
313,500	Meituan 'B'	7,093,665
600,627	ICICI Bank Ltd.	6,387,935
192,428	Reliance Industries Ltd.	6,247,028
188,792	JD.com, Inc. 'A'	5,497,253
227,933	Infosys Ltd. ADR	4,812,906
6,593,000	China Construction Bank Corp. 'H'	4,589,589
128,553	Housing Development Finance Corp. Ltd.	4,077,885
670,865	Qatar National Bank QPSC	4,052,363
617,711	Petroleo Brasileiro SA, Preference	3,617,700
1,205,000	China Overseas Land & Investment Ltd.	3,569,580
41,316	SK Hynix, Inc.	3,530,850
119,864	Al Rajhi Bank	3,465,032
80,819	Anglo American plc	3,407,467
476,500	Ping An Insurance Group Co. of China Ltd. 'H'	3,400,106
12,500	Kweichow Moutai Co. Ltd. 'A'	3,364,057

Nominal Holding or Shares	Description	Proceed USD
243,442,325	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	243,442,325
154,535	Saudi National Bank (The)	2,649,615
135,000	Taiwan Semiconductor Manufacturing Co. Ltd.	2,397,290
34,370	Fomento Economico Mexicano SAB de CV ADR	2,388,086
13,969	Hyundai Motor Co.	2,028,770
3,175,000	AU Optronics Corp.	2,020,927
152,000	Yageo Corp.	1,997,873
268,711	Grupo Financiero Banorte SAB de CV 'O'	1,976,857
29,500	Contemporary Amperex Technology Co. Ltd. 'A'	1,975,760
338,652	Petroleo Brasileiro SA, Preference	1,969,077
1,026,000	Nanya Technology Corp.	1,956,959
418,666	Hindalco Industries Ltd.	1,906,228
819,000	Kingdee International Software Group Co. Ltd.	1,874,438
36,018	Samsung Electronics Co. Ltd.	1,804,470
666,000	Quanta Computer, Inc.	1,777,428
150,400	Alibaba Group Holding Ltd.	1,767,391
11,916	Capitec Bank Holdings Ltd.	1,680,090
315,350	Grupo Mexico SAB de CV	1,670,544
288,770	Qatar National Bank QPSC	1,663,742
51,200	JD.com, Inc. 'A'	1,620,462

<sup>\*</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF

#### Purchases

Nominal Holding or Shares	Description	Cost USD
2,710,858	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	2,710,858
2,966	Prudential Financial, Inc.	333,630
5,362	American International Group, Inc.	309,536
5,795	Mosaic Co. (The)	296,965
1,262	L3Harris Technologies, Inc.	296,890
15,305	Host Hotels & Resorts, Inc., REIT	269,922
8,832	VICI Properties, Inc., REIT	258,722
7,546	Teck Resources Ltd. 'B'	256,293
1,146	General Dynamics Corp.	255,317
3,706	Hologic, Inc.	252,433
1,677	AmerisourceBergen Corp. 'A'	245,129
2,786	Bayerische Motoren Werke AG	232,461
383	ASML Holding NV	229,019
1,258	American Express Co.	228,185
2,719	Merck & Co., Inc.	223,938
324	O'Reilly Automotive, Inc.	222,927
649	Public Storage, REIT	217,074
11,544	AT&T, Inc.	214,746
463	Roper Technologies, Inc.	211,553
1,104	United Parcel Service, Inc. 'B'	211,150

Nominal Holding or Shares	Description	Proceed USD
2,710,858	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	2,710,858
31,117	Swedish Match AB	324,421
4,679	Public Service Enterprise Group, Inc.	306,317
2,293	Prologis, Inc., REIT	256,725
3,857	Tyson Foods, Inc. 'A'	250,022
5,003	Fastenal Co.	241,009
1,467	Avery Dennison Corp.	237,820
7,521	BHP Group Ltd.	236,825
3,200	NextEra Energy, Inc.	227,679
2,333	CF Industries Holdings, Inc.	223,091
6,397	Walgreens Boots Alliance, Inc.	222,656
1,312	AvalonBay Communities, Inc., REIT	222,603
1,435	Zoetis, Inc. 'A'	210,583
2,428	Steel Dynamics, Inc.	210,151
8,984	AES Corp. (The)	206,233
1,542	American Water Works Co., Inc.	205,609
3,128	Edison International	202,010
630	McKesson Corp.	201,331
1,182	NVIDIA Corp.	191,947
1,687	PPG Industries, Inc.	185,604

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Global High Yield Corporate Bond Multi-Factor UCITS ETF

#### Purchases

Nominal Holding or Shares	Description	Cost USD
16,918,700	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	16,918,700
3,253,000	Directy Financing LLC / Directy Financing CoObligor, Inc.	3,083,537
2,879,000	Petrobras Global Finance BV	2,480,475
2,065,000	TransDigm, Inc.	2,069,740
2,062,000	Petrobras Global Finance BV	1,898,962
2,033,000	DaVita, Inc.	1,678,361
1,477,000	Teva Pharmaceutical Finance Netherlands II BV	1,464,110
1,589,000	Condor Merger Sub, Inc.	1,383,390
1,464,000	Hilton Domestic Operating Co., Inc.	1,344,419
1,240,000	ABJA Investment Co. Pte Ltd.	1,297,924
1,419,000	Organon & Co. / Organon Foreign Debt CoIssuer BV	1,287,485
1,284,000	Ritchie Bros Auctioneers, Inc.	1,283,984
1,449,000	FMG Resources August 2006 Pty. Ltd.	1,273,558
1,377,000	Terex Corp.	1,272,929
1,285,000	Sirius XM Radio, Inc.	1,224,615
1,266,000	Goodyear Tire & Rubber Co. (The)	1,206,164
1,187,000	Turkiye Sise ve Cam Fabrikalari A/S	1,178,890
1,277,000	Covanta Holding Corp.	1,166,392
1,052,000	International Game Technology plc	1,138,491
1,246,000	Compass Group Diversified Holdings LLC	1,138,041

Nominal Holding or Shares	Description	Proceed USD
16,560,025	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	16,560,025
2,170,000	Global Aircraft Leasing Co. Ltd.	1,825,900
1,911,000	Petrobras Global Finance BV	1,685,530
1,669,000	Directv Financing LLC / Directv Financing CoObligor, Inc.	1,520,429
1,746,000	DaVita, Inc.	1,458,786
1,546,000	Compass Group Diversified Holdings LLC	1,351,456
1,267,000	Weatherford International Ltd.	1,277,779
1,274,000	TransDigm, Inc.	1,263,400
1,266,000	Goodyear Tire & Rubber Co. (The)	1,227,387
1,336,000	Grifols SA	1,224,236
1,385,000	Emergent BioSolutions, Inc.	1,223,300
1,220,000	Ritchie Bros Auctioneers, Inc.	1,215,531
1,226,000	Telecom Italia SpA	1,202,545
1,209,000	AMC Networks, Inc.	1,170,428
1,698,000	Transocean, Inc.	1,162,397
1,197,000	VICI Properties LP / VICI Note Co., Inc.	1,142,821
1,335,000	Par Pharmaceutical, Inc.	1,120,984
1,162,000	Catalent Pharma Solutions, Inc.	1,119,365
1,179,000	AMC Networks, Inc.	1,101,222
1,041,000	Sealed Air Corp.	1,080,674

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Global Research Enhanced Index Equity (ESG) UCITS ETF

#### Purchases

Nominal Holding or Shares	Description	Cost USD
588,962,239	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	588,962,239
275,102	Apple, Inc.	43,051,685
132,486	Microsoft Corp.	36,198,414
98,050	Amazon.com, Inc.	21,578,215
66,069	Alphabet, Inc. 'A'	14,032,449
55,255	Alphabet, Inc. 'C'	12,299,147
28,679	Tesla, Inc.	12,244,399
122,118	Exxon Mobil Corp.	11,555,370
21,898	UnitedHealth Group, Inc.	11,152,307
42,343	Visa, Inc. 'A'	8,775,997
44,744	NVIDIA Corp.	8,456,331
26,717	Berkshire Hathaway, Inc. 'B'	8,053,083
41,121	Meta Platforms, Inc. 'A'	7,976,331
23,006	Mastercard, Inc. 'A'	7,893,711
51,607	Procter & Gamble Co. (The)	7,715,563
49,732	AbbVie, Inc.	7,319,907
116,537	Coca-Cola Co. (The)	7,173,132
23,238	Accenture plc 'A'	7,011,458
39,598	Johnson & Johnson	6,801,146
55,466	Nestle SA	6,747,458

Nominal Holding or Shares	Description	Proceed USD
583,493,453	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	583,493,453
16,888	Pioneer Natural Resources Co.	4,120,700
26,231	Apple, Inc.	3,898,765
79,170	Exelon Corp.	3,147,788
10,913	Microsoft Corp.	2,770,422
16,999	Procter & Gamble Co. (The)	2,507,403
38,892	Mondelez International, Inc. 'A'	2,434,080
9,727	Automatic Data Processing, Inc.	2,340,088
14,806	Eaton Corp. plc	2,322,321
13,698	PepsiCo, Inc.	2,305,509
13,230	Johnson & Johnson	2,253,597
8,778	Alphabet, Inc. 'C'	2,086,236
42,154	Verizon Communications, Inc.	1,993,426
28,585	Hartford Financial Services Group, Inc. (The)	1,902,745
54,018	Bank of America Corp.	1,854,246
14,117	DTE Energy Co.	1,819,132
6,052	Home Depot, Inc. (The)	1,741,177
12,109	Amazon.com, Inc.	1,697,767
16,748	Applied Materials, Inc.	1,652,199
5,030	Goldman Sachs Group, Inc. (The)	1,562,189

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - Japan Research Enhanced Index Equity (ESG) UCITS ETF\*

#### Purchases

207,300         Toyota Motor Corp.         3,212,43           30,200         Sony Group Corp.         2,497,927           2,038,406         JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)         2,038,406           4,700         Keyence Corp.         1,809,599           329,200         Mitsubishi UF Financial Group, Inc.         1,796,230           12,800         Nintendo Co. Ltd.         1,376,864           3,900         Tokyo Electron Ltd.         1,335,093           27,000         Hitachi Ltd.         1,293,390           10,400         Shin-Etsu Chemical Co. Ltd.         1,276,504           39,400         Sumitomo Mitsui Financial Group, Inc.         1,276,504           45,900         Dalichi Sankyo Co. Ltd.         1,196,761           45,900         Dalichi Sankyo Co. Ltd.         1,196,761           33,800         Recruit Holdings, Inc.         1,141,438           33,800         Recruit Holdings Co. Ltd.         1,141,438           38,800         Nippon Telegraph & Telephone Corp.         1,102,521           37,900         HOLU Corp.         1,004,121           10,700         Hoya Corp.         1,054,061           5,900         Fax Retailing Co. Ltd.         855,498           15,000 </th <th>Nominal Holding or Shares</th> <th>Description</th> <th>Cost USD</th>	Nominal Holding or Shares	Description	Cost USD
2,038,406       JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)       2,038,406         4,700       Keyence Corp.       1,809,599         329,200       Mitsubishi UFJ Financial Group, Inc.       1,766,230         12,800       Nintendo Co. Ltd.       1,378,864         3,900       Tokyo Electron Ltd.       1,305,093         41,600       KDDI Corp.       1,205,093         27,000       Hitachi Ltd.       1,276,504         39,400       Sbnin-Etsu Chemical Co. Ltd.       1,217,955         46,900       Daiichi Sankyo Co. Ltd.       1,196,761         32,700       Tokio Marine Holdings, Inc.       1,144,438         33,800       Recruit Holdings, Co. Ltd.       1,144,438         33,800       Nippon Telegraph & Telephone Corp.       1,102,521         37,900       HITOCHU Corp.       1,098,451         10,700       Hoya Corp.       1,064,611         10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       92,559         32,100       Takeda Pharmaceutical Co. Ltd.       82,498         15,000       Murtat Maunfacturing Co. Ltd.       82,498         15,000       Fast Retailing Co. Ltd.       82,703         6,400       Fujitsu	207,300	Toyota Motor Corp.	3,212,443
4,700       Keyence Corp.       1,809,599         329,200       Mitsubishi UFJ Financial Group, Inc.       1,796,230         12,800       Nintendo Co. Ltd.       1,376,864         3,900       Tokyo Electron Ltd.       1,318,078         41,600       KDDI Corp.       1,305,093         27,000       Hitachi Ltd.       1,293,390         10,400       Shin-Etsu Chemical Co. Ltd.       1,276,504         45,000       Daiichi Sankyo Co. Ltd.       1,196,761         32,700       Tokio Marine Holdings, Inc.       1,141,438         33,800       Recruit Holdings, Inc.       1,141,438         33,800       Recruit Holdings Co. Ltd.       1,137,881         37,900       ITOCHU Corp.       1,106,251         37,900       ITOCHU Corp.       1,098,451         10,700       Hoya Corp.       1,098,451         10,700       Hoya Corp.       1,054,611         5,900       FANUC Corp.       905,892         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       855,498         15,000       Fast Retailing Co. Ltd.       830,778         20,500       SoftBank Group Corp.       827,073         6,	30,200	Sony Group Corp.	2,497,927
329,200       Mitsubishi Lif J Financial Group, Inc.       1,796,230         12,800       Nintendo Co. Ltd.       1,376,864         3,900       Tokyo Electron Ltd.       1,318,078         41,600       KDDI Corp.       1,305,093         27,000       Hitachi Ltd.       1,293,390         10,400       Shin-Etsu Chemical Co. Ltd.       1,278,504         39,400       Sumitomo Mitsui Financial Group, Inc.       1,217,995         45,000       Daiichi Sankyo Co. Ltd.       1,196,761         46,900       Honda Motor Co. Ltd.       1,196,761         33,800       Recruit Holdings Co. Ltd.       1,144,38         38,800       Nippon Telegraph & Telephone Corp.       1,102,521         37,900       ITOCHU Corp.       1,094,451         33,900       Mitsubishi Corp.       1,064,121         10,700       Hoya Corp.       1,064,121         10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       92,592         32,100       Takeda Pharmaceutical Co. Ltd.       855,498         15,000       Seven & i Holdings Co. Ltd.       855,498         15,000       SoftBank Group Corp.       830,978         15,400       Denso Corp.       830,978 <td>2,038,406</td> <td>JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)</td> <td>2,038,406</td>	2,038,406	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	2,038,406
12,800       Nintendo Co. Ltd.       1,376,864         3,900       Tokyo Electron Ltd.       1,318,078         41,600       KDDI Corp.       1,318,078         27,000       Hitachi Ltd.       1,293,390         10,400       Shin-Etsu Chemical Co. Ltd.       1,276,504         39,400       Sumitomo Mitsui Financial Group, Inc.       1,176,761         46,900       Daiichi Sankyo Co. Ltd.       1,164,511         32,700       Tokio Marine Holdings, Inc.       1,164,513         33,800       Recruit Holdings Co. Ltd.       1,137,881         38,800       Nippon Telegraph & Telephone Corp.       1,102,521         33,900       Mitsubishi Corp.       1,064,121         10,700       Hoya Corp.       1,064,121         10,700       Hoya Corp.       1,064,121         20,700       Seven & i Holdings Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       801,437         15,000       Murata Manufacturing Co. Ltd.       802,438         16,000       Fast Retailing Co. Ltd.       807,764         20,500       SoftBank Group Corp.       827,073         6,400       Fujitsu Ltd.       823,680         20,700       Bridgestone Corp.       754,978 <td>4,700</td> <td>Keyence Corp.</td> <td>1,809,599</td>	4,700	Keyence Corp.	1,809,599
3,900       Tokyo Electron Ltd.       1,318,078         41,600       KDDI Corp.       1,305,093         27,000       Hitachi Ltd.       1,278,390         10,400       Shin-Etsu Chemical Co. Ltd.       1,276,504         39,400       Sumitomo Mitsui Financial Group, Inc.       1,217,995         45,000       Daiichi Sankyo Co. Ltd.       1,196,761         46,900       Honda Motor Co. Ltd.       1,164,511         32,700       Tokio Marine Holdings, Inc.       1,141,438         33,800       Recruit Holdings Co. Ltd.       1,137,881         38,800       Nippon Telegraph & Telephone Corp.       1,098,451         33,900       Mitsubishi Corp.       1,098,451         10,700       Hoya Corp.       1,064,121         5,900       FANUC Corp.       1,054,061         5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680	329,200	Mitsubishi UFJ Financial Group, Inc.	1,796,230
41,600       KDDI Corp.       1,305,093         27,000       Hitachi Ltd.       1,293,390         10,400       Shin-Etsu Chemical Co. Ltd.       1,276,504         39,400       Sumitomo Mitsui Financial Group, Inc.       1,217,995         45,000       Daiichi Sankyo Co. Ltd.       1,196,761         46,900       Honda Motor Co. Ltd.       1,164,511         32,700       Tokio Marine Holdings, Inc.       1,141,438         33,800       Recruit Holdings Co. Ltd.       1,102,521         37,900       ITOCHU Corp.       1,098,451         33,900       Mitsubishi Corp.       1,094,451         10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       1,054,061         20,700       Seven & i Holdings Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       901,437         15,000       Murata Manufacturing Co. Ltd.       855,498         16,000       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,798         15,400       Denso Corp.       830,898         15,400       Penso Corp.       823,680         25,100       Terumo Corp.       759,578         20	12,800	Nintendo Co. Ltd.	1,376,864
27,000       Hitachi Ltd.       1,293,390         10,400       Shin-Etsu Chemical Co. Ltd.       1,276,504         39,400       Sumitomo Mitsui Financial Group, Inc.       1,217,995         45,000       Daiichi Sankyo Co. Ltd.       1,196,761         46,900       Honda Motor Co. Ltd.       1,164,511         32,700       Tokio Marine Holdings, Inc.       1,141,438         33,800       Recruit Holdings Co. Ltd.       1,137,881         38,800       Nippon Telegraph & Telephone Corp.       1,005,251         37,900       ITOCHU Corp.       1,094,451         33,900       Mitsubishi Corp.       1,054,061         5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       842,435         1,600       Fast Retailing Co. Ltd.       837,074         20,500       SoftBank Group Corp.       827,073         6,400       Fujitsu Ltd.       823,680         20,700       Bridgestone Corp.       754,993         20,700       Bridgestone Corp.       754,993	3,900	Tokyo Electron Ltd.	
10,400       Shin-Etsu Chemical Co. Ltd.       1,276,504         39,400       Sumitomo Mitsui Financial Group, Inc.       1,217,995         45,000       Daiichi Sankyo Co. Ltd.       1,196,761         46,900       Honda Motor Co. Ltd.       1,164,511         32,700       Tokio Marine Holdings, Inc.       1,131,881         38,800       Recruit Holdings Co. Ltd.       1,137,881         38,900       Nippon Telegraph & Telephone Corp.       1,098,451         33,900       Mitsubishi Corp.       1,098,451         33,900       Mitsubishi Corp.       1,064,121         10,700       Hoya Corp.       90,592         32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       837,764         20,500       SoftBank Group Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993	41,600	KDDI Corp.	1,305,093
39,400       Sumitomo Mitsui Financial Group, Inc.       1,217,995         45,000       Daiichi Sankyo Co. Ltd.       1,196,761         46,900       Honda Motor Co. Ltd.       1,164,511         32,700       Tokio Marine Holdings, Inc.       1,141,438         33,800       Recruit Holdings Co. Ltd.       1,137,881         38,800       Nippon Telegraph & Telephone Corp.       1,098,451         37,900       ITOCHU Corp.       1,098,451         33,900       Mitsubishi Corp.       1,064,121         10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       971,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       842,435         20,500       SoftBank Group Corp.       837,764         20,500       SoftBank Group Corp.       823,680         15,400       Denso Corp.       823,680         25,100       Terumo Corp.       823,680         25,100       Bridgestone Corp.       759,578         20,700       Bridgestone Corp.       754,993	27,000	Hitachi Ltd.	1,293,390
45,000       Daiichi Sankyo Co. Ltd.       1,196,761         46,900       Honda Motor Co. Ltd.       1,164,511         32,700       Tokio Marine Holdings, Inc.       1,144,381         33,800       Recruit Holdings Co. Ltd.       1,137,881         38,800       Nippon Telegraph & Telephone Corp.       1,102,521         37,900       ITOCHU Corp.       1,098,451         33,900       Mitsubishi Corp.       1,064,121         10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       901,437         20,700       Seven & i Holdings Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       825,692         20,700       Bridgestone Corp.       754,993	10,400	Shin-Etsu Chemical Co. Ltd.	1,276,504
46,900Honda Motor Co. Ltd.1,164,51132,700Tokio Marine Holdings, Inc.1,141,43833,800Recruit Holdings Co. Ltd.1,137,88138,800Nippon Telegraph & Telephone Corp.1,102,52137,900ITOCHU Corp.1,098,45133,900Mitsubishi Corp.1,064,12110,700Hoya Corp.1,054,0615,900FANUC Corp.925,59232,100Takeda Pharmaceutical Co. Ltd.901,43720,700Seven & i Holdings Co. Ltd.855,49815,000Murata Manufacturing Co. Ltd.837,6420,500Fast Retailing Co. Ltd.837,76420,500SoftBank Group Corp.830,97815,400Denso Corp.827,0736,400Fujitsu Ltd.823,68025,100Terumo Corp.759,57820,700Bridgestone Corp.759,57820,700Bridgestone Corp.754,993	39,400	Sumitomo Mitsui Financial Group, Inc.	1,217,995
32,700       Tokio Marine Holdings, Inc.       1,141,438         33,800       Recruit Holdings Co. Ltd.       1,137,881         38,800       Nippon Telegraph & Telephone Corp.       1,102,521         37,900       ITOCHU Corp.       1,098,451         33,900       Mitsubishi Corp.       1,054,061         5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       901,437         15,000       Murata Manufacturing Co. Ltd.       855,498         1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       759,578			
33,800       Recruit Holdings Co. Ltd.       1,137,881         38,800       Nippon Telegraph & Telephone Corp.       1,102,521         37,900       ITOCHU Corp.       1,098,451         33,900       Mitsubishi Corp.       1,064,121         10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       842,435         1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       759,578		Honda Motor Co. Ltd.	
38,800       Nippon Telegraph & Telephone Corp.       1,102,521         37,900       ITOCHU Corp.       1,098,451         33,900       Mitsubishi Corp.       1,064,121         10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       824,435         1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       759,578	32,700	Tokio Marine Holdings, Inc.	1,141,438
37,900       ITOCHU Corp.       1,098,451         33,900       Mitsubishi Corp.       1,064,121         10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       842,435         1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993			
33,900       Mitsubishi Corp.       1,064,121         10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       837,764         20,500       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993	38,800	Nippon Telegraph & Telephone Corp.	1,102,521
10,700       Hoya Corp.       1,054,061         5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       837,764         20,500       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993	37,900	ITOCHU Corp.	1,098,451
5,900       FANUC Corp.       925,592         32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       842,435         1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993		Mitsubishi Corp.	
32,100       Takeda Pharmaceutical Co. Ltd.       901,437         20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       842,435         1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993		Hoya Corp.	
20,700       Seven & i Holdings Co. Ltd.       855,498         15,000       Murata Manufacturing Co. Ltd.       842,435         1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993	5,900		
15,000       Murata Manufacturing Co. Ltd.       842,435         1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993			901,437
1,600       Fast Retailing Co. Ltd.       837,764         20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993			
20,500       SoftBank Group Corp.       830,978         15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993			
15,400       Denso Corp.       827,073         6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993	1,600		
6,400       Fujitsu Ltd.       823,680         25,100       Terumo Corp.       759,578         20,700       Bridgestone Corp.       754,993			
25,100     Terumo Corp.     759,578       20,700     Bridgestone Corp.     754,993	15,400	Denso Corp.	827,073
20,700 Bridgestone Corp. 754,993			
44,700 ORIX Corp. 748,984			
	44,700	ORIX Corp.	748,984

Nominal Holding or Shares	Description	Proceed USD
1,846,673	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	1,846,673
28,200	Toyota Motor Corp.	439,504
10,700	Kintetsu Group Holdings Co. Ltd.	359,982
11,300	Capcom Co. Ltd.	335,817
3,900	Sony Group Corp.	325,705
20,400	Sumitomo Corp.	286,892
3,900	Nippon Yusen KK	279,708
6,800	Tokio Marine Holdings, Inc.	236,964
6,900	Suzuki Motor Corp.	235,429
44,000	Mitsubishi UFJ Financial Group, Inc.	234,063
600	Keyence Corp.	231,889
7,700	Mitsubishi Corp.	225,981
3,700	Yakult Honsha Co. Ltd.	222,001
7,100	KDDI Corp.	219,457
4,900	KAO Corp.	206,110
7,200	Daiichi Sankyo Co. Ltd.	200,760
4,400	Sompo Holdings, Inc.	187,001
600	Tokyo Electron Ltd.	185,745
11,900	SCSK Corp.	185,569
2,800	Nidec Corp.	184,956
4,500	Seven & i Holdings Co. Ltd.	180,187
3,600	Hitachi Ltd.	178,356
300	Fast Retailing Co. Ltd.	175,502
400	Nintendo Co. Ltd.	171,660
1,100	FANUC Corp.	171,122
1,400	Shin-Etsu Chemical Co. Ltd.	169,122
5,900	Nippon Telegraph & Telephone Corp.	165,548
8,000	Yamaha Motor Co. Ltd.	163,491

<sup>\*</sup>Sub-Fund launched on 29 March 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - RMB Ultra-Short Income UCITS ETF\*

#### Purchases

Nominal Holding or Shares	Description	Cost USD
20,000,000	China Construction Bank Corp.	3,089,828
14,000,000	Hong Kong Mortgage Corp. Ltd. (The)	2,218,653
13,000,000	Industrial & Commercial Bank of China Ltd.	2,052,876
10,000,000	Zhejiang Provincial Energy Group Co. Ltd.	1,617,356
10,000,000	State Grid Corp. of China	1,609,788
10,000,000	China Development Bank	1,609,054
10,000,000	State Development & Investment Corp. Ltd.	1,608,485
10,000,000	Export-Import Bank of China (The)	1,602,619
10,000,000	Agricultural Development Bank of China	1,599,222
10,000,000	China Development Bank	1,598,230
10,000,000	Export-Import Bank of China (The)	1,593,034
10,000,000	Agricultural Development Bank of China	1,591,970
10,000,000	Export-Import Bank of China (The)	1,589,983
10,000,000	Central Huijin Investment Ltd.	1,585,497
10,000,000 10,000,000	State Power Investment Corp. Ltd. Kookmin Bank Co. Ltd.	1,584,534 1,583,681
10,000,000	China Government Bond	1,505,001
10,000,000	State Power Investment Corp. Ltd.	1,579,269
10,000,000	Baoshan Iron & Steel Co. Ltd.	1,575,612
10,000,000	PBOC International Note	1,574,947
10,000,000	Fubon Bank (China) Co. Ltd.	1,573,092
10,000,000	Bank of East Asia Ltd. (The)	1,563,240
10,000,000	DBS Bank China Ltd.	1,562,996
10,000,000	Bank of China Ltd.	1,544,903
10,000,000	Agricultural Bank of China Ltd.	1,543,178
10,000,000	Shanghai Pudong Development Bank Co. Ltd.	1,542,912
10,000,000	Bank of Communications Co. Ltd.	1,542,636
10,000,000	China Merchants Bank Co. Ltd.	1,541,290
10,000,000	Sinochem Corp.	1,495,394
10,000,000	Industrial & Commercial Bank of China Macau Ltd.	1,493,926
10,000,000	Malayan Banking Bhd.	1,492,312
10,000,000	China Baowu Steel Group Corp. Ltd.	1,485,378
10,000,000	China Construction Bank Corp.	1,484,893
10,000,000	Central Huijin Investment Ltd.	1,484,491
10,000,000	Fubon Bank (China) Co. Ltd.	1,483,589
10,000,000 10,000,000	Industrial & Commercial Bank of China Ltd. Australia and New Zealand Bank (China) Co. Ltd.	1,482,191 1,465,382
10,000,000	United Overseas Bank China Ltd.	1,463,562
10,000,000	Bank of East Asia Ltd. (The)	1,404,092
10,000,000	DBS Bank China Ltd.	1,422,360
9,000,000	Kreditanstalt fuer Wiederaufbau	1,415,821
10,000,000	Agricultural Bank of China Ltd.	1,412,494
10,000,000	ING Bank NV	1,408,418
10,000,000	China Post Group Co. Ltd.	1,397,109
10,000,000	State Development & Investment Corp. Ltd.	1,391,995
10,000,000	Sumitomo Mitsui Banking Corp. China Ltd.	1,363,470
10,000,000	Bank of Communications Co. Ltd.	1,362,793
10,000,000	Bank of East Asia Ltd. (The)	1,347,252
9,000,000	Bank of Montreal	1,339,190
8,000,000	China Development Bank	1,278,057
8,000,000	Agricultural Development Bank of China	1,269,025
8,000,000	QNB Finance Ltd.	1,267,213
8,000,000	Export-Import Bank of Korea	1,266,315
8,000,000	Cooperatieve Rabobank UA	1,261,366
8,000,000	International Bank for Reconstruction & Development	1,258,545
8,000,000	Asian Development Bank	1,253,597
8,000,000 7,000,000	Kreditanstalt fuer Wiederaufbau Bank of Nova Scotia (The)	1,184,582 1,010,743
/,000,000	Daily of Mova Scotia (THE)	1,010,743

Nominal Holding or Shares	Description	Proceed USD
10,000,000	China Development Bank	1,510,927
10,000,000	China Development Bank	1,502,249
10,000,000	Export-Import Bank of China (The)	1,494,727
10,000,000	China Government Bond	1,494,185

<sup>\*</sup>Sub-Fund launched on 1 March 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - UK Equity Core UCITS ETF\*

#### Purchases

Nominal Holding or Shares	Description	Cost GBP
37,642	Shell plc	869,329
7,819	AstraZeneca plc	769,254
99,811	HSBC Holdings plc	518,810
12,028	Unilever plc	438,147
98,557	BP plc	429,969
24,610	GSK plc	421,304
11,527	British American Tobacco plc	403,744
11,427	Diageo plc	395,962
70,276	Glencore plc	339,554
5,223	Rio Tinto plc	288,726
4,017	Reckitt Benckiser Group plc	241,097
6,920	Anglo American plc	237,199
10,842	RELX plc	227,566
18,398	National Grid plc	193,755
139,951	Vodafone Group plc	175,211
17,770	Prudential plc	173,342
9,817	Compass Group plc	167,682
164,938	JPMorgan Liquidity Funds - GBP Liquidity LVNAV Fund - Class X (dist.)	164,938
376,583	Lloyds Banking Group plc	163,375
20,733	BAE Systems plc	160,756
96,242	Barclays plc	151,094
4,672	CRH plc	139,981
1,973	London Stock Exchange Group plc	134,318
51,405	Tesco plc	126,110

Nominal Holding or Shares	Description	Proceed USD
103,959	JPMorgan Liquidity Funds - GBP Liquidity LVNAV Fund - Class X (dist.)	103,959
1,649	Bunzl plc	47,831
19,474	Direct Line Insurance Group plc	40,663
2,295	Smiths Group plc	36,444
6,409	Auto Trader Group plc	36,331
4,524	Britvic plc	35,125
1,542	Shell pic	33,914
3,713	Prudential plc	33,141
310	AstraZeneca plc	31,422
22,228	BT Group plc 'A'	26,318
7,939	Haleon plc	22,292
471	DCC plc	22,196
20,723	Taylor Wimpey plc	21,780
541	Berkeley Group Holdings plc	20,547
17,783	International Consolidated Airlines Group SA	19,553
18,455	Vodafone Group plc	19,093
2,061	Hiscox Ltd.	18,783
2,263	WPP plc	18,208
501	Dechra Pharmaceuticals plc	16,255
7,436	ConvaTec Group plc	15,831
19,540	Centamin plc	15,035
1,169	St James's Place plc	14,704
2,969	Great Portland Estates plc, REIT	14,682
3,291	BP plc	14,531
684	Halma plc	14,074
2,682	Howden Joinery Group plc	13,584
17,080	Rolls-Royce Holdings plc	12,885
1,291	Hill & Smith Holdings plc	12,412
12,058	Melrose Industries plc	12,378
1,201	Antofagasta plc	12,352
2,219	AG Barr plc	11,849
3,956	Morgan Advanced Materials plc	11,834
602	Computacenter plc	10,982

<sup>\*</sup>Sub-Fund launched on 14 June 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - US Equity Multi-Factor UCITS ETF\*

#### Purchases

Nominal Holding or Shares	Description	Cost USD
280 145	General Dynamics Corp. Lockheed Martin Corp.	62,252 61,514
632	Merck & Co., Inc.	58,225
2,701	Macy's, Inc.	56,223
905	Louisiana-Pacific Corp.	55,808
3,288	Hewlett Packard Enterprise Co.	54,525
307	United Parcel Service, Inc. 'B'	54,250
78	Regeneron Pharmaceuticals, Inc.	53,590
261	Mid-America Apartment Communities, Inc., REIT	52,118
280	Nexstar Media Group, Inc. 'A'	49,523
349	Liberty Broadband Corp. 'C'	49,289
71	O'Reilly Automotive, Inc.	49,024
22	AutoZone, Inc.	47,496
507	Cerner Corp.	47,475
1,658	NortonLifeLock, Inc.	45,302
628	Hologic, Inc.	44,544
525	Sysco Corp.	42,706
457	Exxon Mobil Corp.	42,597
1,182	Unum Group	41,791
142	Vertex Pharmaceuticals, Inc.	41,164
482	Amdocs Ltd.	40,333
2,589	Cleveland-Cliffs, Inc.	38,835
82	Roper Technologies, Inc.	38,215
264	Camden Property Trust, REIT	36,025
826	H&R Block, Inc.	35,979
436	SS&C Technologies Holdings, Inc.	34,405
1,933	Host Hotels & Resorts, Inc., REIT	34,349
352	McCormick & Co., Inc.	33,440
485	Edison International	32,747
736	Alcoa Corp.	31,796
455 282	Cardinal Health, Inc. Penske Automotive Group, Inc.	30,421 30,386
202	Penske Automotive Group, inc.	30,386

Nominal Holding or Shares	Description	Proceed USD
4,450	Marathon Oil Corp.	119,302
1,071	CF Industries Holdings, Inc.	107,541
1,070	Steel Dynamics, Inc.	103,502
1,533	Devon Energy Corp.	96,839
729	EOG Resources, Inc.	96,082
271	McKesson Corp.	95,269
1,015	Archer-Daniels-Midland Co.	93,204
2,582	Halliburton Co.	93,012
265	Eli Lilly & Co.	92,403
590	Nucor Corp.	86,460
1,381	Corteva, Inc.	86,287
540	AbbVie, Inc.	85,428
3,205	Coterra Energy, Inc.	84,356
568	Quanta Services, Inc.	82,960
164	Elevance Health, Inc.	81,805
710	Prologis, Inc., REIT	81,795
1,623	Kroger Co. (The)	81,429
1,143	Targa Resources Corp.	81,301
3,062	United States Steel Corp.	80,283
308	United Therapeutics Corp.	79,796

<sup>\*</sup>Sub-Fund liquidated on 23 November 2022.

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - US Research Enhanced Index Equity (ESG) UCITS ETF

#### Purchases

Cost USD	Description	Nominal Holding or Shares
286,606,489	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	286,606,489
107,248,019	Apple, Inc.	708,894
99,024,010	Microsoft Corp.	376,759
54,098,367	Amazon.com, Inc.	348,991
38,753,893	Alphabet, Inc. 'A'	209,989
32,822,401	Tesla, Inc.	86,030
30,329,929	Exxon Mobil Corp.	319,208
29,643,814	UnitedHealth Group, Inc.	57,687
29,283,723	Alphabet, Inc. 'C'	149,652
27,963,882	Berkshire Hathaway, Inc. 'B'	96,011
23,727,606	Visa, Inc. 'A'	117,831
20,372,137	Mastercard, Inc. 'A'	62,086
20,027,798	AbbVie, Inc.	137,047
19,991,984	NVIDIA Corp.	117,423
18,775,420	Procter & Gamble Co. (The)	131,634
18,587,855	Meta Platforms, Inc. 'A'	112,471
18,271,832	Coca-Cola Co. (The)	299,357
17,648,182	Johnson & Johnson	102,981
17,579,303	Thermo Fisher Scientific, Inc.	31,950
17,237,323	PepsiCo, Inc.	102,054

Nominal Holding or Shares	Description	Proceed USD
283,287,397	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	283,287,397
160,442	Apple, Inc.	26,077,555
76,343	Microsoft Corp.	21,019,798
51,729	Pioneer Natural Resources Co.	12,542,923
50,472	Amazon.com, Inc.	12,104,466
49,997	Alphabet, Inc. 'A'	10,335,316
234,390	Exelon Corp.	9,618,962
32,581	Alphabet, Inc. 'C'	8,723,512
57,660	Procter & Gamble Co. (The)	8,712,677
225,723	Bank of America Corp.	8,093,193
41,971	Johnson & Johnson	7,184,142
28,462	Automatic Data Processing, Inc.	7,048,397
45,655	Chevron Corp.	6,994,696
22,671	Berkshire Hathaway, Inc. 'B'	6,962,745
13,659	UnitedHealth Group, Inc.	6,828,669
106,750	Mondelez International, Inc. 'A'	6,682,825
11,775	Tesla, Inc.	6,628,154
295,860	Regions Financial Corp.	6,461,104
31,832	NVIDIA Corp.	6,265,213
42,294	AbbVie, Inc.	6,057,426

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF

#### Purchases

Nominal Holding or Shares	Description	Cost USD
9,276,466	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	9,276,466
957,000	Home Depot, Inc. (The)	922,202
899,000	Mitsubishi UFJ Financial Group, Inc., FRN	890,100
905,000	American Express Co.	876,144
849,000	Bank of America Corp., FRN	814,944
783,000	Marsh & McLennan Cos., Inc.	789,712
799,000	Fiserv, Inc.	769,527
740,000	Coca-Cola Co. (The)	714,885
676,000	Southern Co. Gas Capital Corp.	673,007
671,000	Boston Properties LP	649,371
689,000	Cheniere Energy Partners LP	632,832
700,000	Toronto-Dominion Bank (The)	618,362
602,000	Celanese US Holdings LLC	607,617
622,000	Citigroup, Inc., FRN	599,539
613,000	Berkshire Hathaway Finance Corp.	596,935
600,000	HSBC Holdings plc, FRN	590,815
540,000	GE Capital International Funding Co. Unlimited Co.	584,971
581,000	Morgan Stanley	580,289
592,000	Take-Two Interactive Software, Inc.	577,476
571,000	Warnermedia Holdings, Inc.	574,500

Nominal Holding or Shares	Description	Proceed USD
9,313,976	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	9,313,976
905,000	American Express Co.	870,737
876,000	Mitsubishi UFJ Financial Group, Inc.	867,212
690,000	NatWest Group plc	695,789
591,000	AerCap Ireland Capital DAC / AerCap Global Aviation Trust	627,813
617,000	Bank of America Corp., FRN	615,594
593,000	Citigroup, Inc., FRN	592,887
570,000	Credit Suisse Group AG, FRN	567,758
590,000	Boston Properties LP	551,570
520,000	Dell International LLC / EMC Corp.	533,120
469,000	NatWest Group plc	491,418
489,000	Duke Energy Corp.	489,340
491,000	Southern Co. Gas Capital Corp.	480,674
540,000	Universal Health Services, Inc.	444,312
435,000	Westpac Banking Corp.	417,325
460,000	Verizon Communications, Inc.	402,620
433,000	John Deere Capital Corp.	386,113
425,000	Coca-Cola Co. (The)	385,195
380,000	American Tower Corp.	372,373
363,000	Air Lease Corp.	368,260

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - USD Emerging Markets Sovereign Bond UCITS ETF

#### Purchases

Nominal Holding or Shares	Description	Cost USD
20,987,924	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	20,987,924
5,800,000	Nigeria Government Bond	5,433,633
5,437,000	Angola Government Bond	5,402,245
4,600,000	Angola Government Bond	4,503,043
3,654,000	Oman Government Bond	3,526,801
3,560,000	Oman Government Bond	3,472,150
2,837,000	Guatemala Government Bond	2,856,104
3,058,625	Iraq Government Bond	2,794,620
2,820,000	Oman Government Bond	2,781,400
2,200,000	Angola Government Bond	2,242,900
2,266,000	Oman Government Bond	2,209,438
2,280,000	Oman Government Bond	2,206,520
2,120,000	Hungary Government Bond	2,152,269
3,100,000	Turkey Government Bond	2,149,306
2,152,000	Oman Sovereign Sukuk Co.	2,147,576
2,790,000	South Africa Government Bond	2,010,666
2,586,000	Serbia Government Bond	2,002,158
1,949,000	Petroleos Mexicanos	1,930,628
2,028,000	CBB International Sukuk Programme Co. SPC	1,871,912
2,111,000	Brazil Government Bond	1,841,956

Nominal Holding or Shares	Description	Proceed USD
22,094,723	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	22,094,723
4,526,688	Iraq Government Bond	4,242,974
5,437,000	Angola Government Bond	4,196,635
5,800,000	Nigeria Government Bond	3,904,500
4,600,000	Angola Government Bond	3,162,557
3,238,000	Nigeria Government Bond	2,544,895
3,174,000	Dominican Republic Government Bond	2,417,751
3,609,000	Nigeria Government Bond	2,269,098
3,000,000	Morocco Government Bond	2,258,970
2,113,000	South Africa Government Bond	2,110,490
4,147,000	Pakistan Government Bond	2,005,973
1,793,000	Brazil Government Bond	1,951,352
2,528,000	Serbia Government Bond	1,949,913
4,232,000	Ukraine Government Bond	1,939,580
2,894,000	Turkey Government Bond	1,914,554
2,089,000	Nigeria Government Bond	1,906,783
2,200,000	Angola Government Bond	1,887,000
2,200,000	Morocco Government Bond	1,850,873
2,415,000	South Africa Government Bond	1,786,455
1,744,000	Hungary Government Bond	1,774,425

# 1. Statement of Significant Portfolio Changes (continued) JPMorgan ETFs (Ireland) ICAV - USD Ultra-Short Income UCITS ETF

#### Purchases

Cos US	Description	Nominal Holding or Shares
162,074,97	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	162,074,976
4,400,00	Nordea Bank Abp, New York Branch	4,400,000
3,009,03	Canadian Imperial Bank of Commerce	3,125,000
2,871,42	Magnetite XVI Ltd. 'AR', FRN	2,870,566
2,732,84	Dryden 30 Senior Loan Fund 'AR', FRN	2,732,027
2,680,29	Commonwealth Bank of Australia, FRN	2,675,000
2,667,30	Svenska Handelsbanken AB, New York Branch	2,689,000
2,562,00	Norinchukin New York Branch, FRN	2,562,000
2,480,68	Qatar National Bank QPSC, London Branch	2,500,000
2,400,00	Bank of Montreal	2,400,000
2,231,00	Norinchukin Bank (The), New York Branch	2,231,000
2,184,07	DNB Markets, Inc.	2,199,000
2,120,00	Nordea Bank Abp, FRN	2,120,000
2,114,99	Skandinaviska Enskilda Banken AB, New York Branch	2,115,000
2,112,36	DNB Markets, Inc.	2,197,000
2,067,00	TD Bank USA NA	2,067,000
2,059,00	Svenska Handelsbanken, FRN	2,059,000
2,045,55	Australia & New Zealand Banking Group Ltd., New York Branch	2,157,000
2,035,00	KEB Hana Bank, FRN	2,035,000
2,030,34	Royal Bank of Canada	2,140,000

#### Sales

Nominal Holding or Shares	Description	Proceed USD
158,045,678	JPMorgan Liquidity Funds - USD Liquidity LVNAV Fund - Class X (dist.)	158,045,678
3,167,000	Bank of Nova Scotia (The), FRN	3,163,656
2,709,000	United Parcel Service, Inc., FRN	2,719,343
2,675,000	Westpac Banking Corp., FRN	2,683,640
2,199,000	DNB Markets, Inc.	2,195,207
2,120,000	Nordea Bank Abp, FRN	2,121,095
2,050,000	Thermo Fisher Scientific, Inc., FRN	2,049,221
1,999,000	First Abu Dhabi Bank USA NV	1,995,152
1,879,000	Societe Generale SA	1,953,484
1,910,000	UnitedHealth Group, Inc.	1,855,680
1,811,000	Mitsubishi UFJ Financial Group, Inc.	1,817,719
1,760,000	Natixis SA	1,739,681
1,700,000	Enterprise Products Operating LLC	1,699,504
1,681,000	Deutsche Bank AG	1,687,758
1,600,000	BPCE SA	1,608,784
1,581,000	Toyota Motor Credit Corp., FRN	1,579,681
1,556,000	ING Groep NV, FRN	1,556,087
1,500,000	Bank of Montreal	1,490,304
1,400,000	TD Bank USA NA	1,395,887
1,400,000	Credit Suisse AG, New York Branch	1,384,412

The CBI requires a schedule of material changes in the composition of the portfolio during the year. These are defined as aggregate purchases of a security exceeding one per cent of the total value of purchases for the year and aggregate disposals greater than one per cent of the total value of sales. At a minimum the largest 20 purchases and 20 sales must be given or all purchases and sales if less than 20. A full listing of the portfolio changes for the year is available, upon request, at no extra cost from the Administrator.

2. Total Expense Rat	ios
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Sub-Funds	Actual TER (net of waiver fees)	Maximum TER as per Prospectus
AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>		
Class USD (acc)	0.30%	0.30%
Class USD (dist)	0.30%	0.30%
BetaBuilders China Aggregate Bond UCITS ETF <sup>2</sup>		
Class EUR Hedged (acc)	0.28%	0.28%
Class USD (acc)	0.25%	0.25%
Class USD (dist)	0.25%	0.25%
Class USD Hedged (dist)	0.28%	0.28%
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	0.1007	0.100/
Class EUR (acc)	0.10%	0.10%
BetaBuilders EUR Govt Bond UCITS ETF	0.1004	0.100
Class EUR (acc)	0.10%	0.10%
BetaBuilders UK Gilt 1-5 yr UCITS ETF	0.0794	0.070
Class GBP (dist)	0.07%	0.07%
BetaBuilders US Equity UCITS ETF	0.0404	0.040
Class USD (acc)	0.04%	0.04%
Class USD (dist)	0.04%	0.04%
BetaBuilders US Small Cap Equity UCITS ETF <sup>3</sup>	0.140/	0.140/
Class USD (acc)	0.14%	0.14%
Class USD (dist)	0.14%	0.14%
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	0.10%	0.10%
Class MXN Hedged (acc) Class USD (acc)	0.10%	0.10%
Class USD (dcc)	0.07%	0.07%
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF Class MXN Hedged (acc)	0.10%	0.10%
Class USD (acc)	0.07%	0.07%
Class U.S.D. (acc.)	0.07%	0.07%
BetaBuilders US Treasury Bond 1-3 yr UCITS ETF Class MXN Hedged (acc)	0.10%	0.10%
Class USD (acc)	0.07%	0.10%
cias distriction	0.07 %	0.0770
BetaBuilders US Treasury Bond UCITS ETF Class GBP Hedged (acc)	0.10%	0.10%
Class USD (acc)	0.10%	0.10%
	0.07 %	0.0770
Carbon Transition China Equity (CTB) UCITS ETF <sup>4</sup>	0.7597	0.35%
Class USD (acc)	0.35%	0.35%
Carbon Transition Global Equity (CTB) UCITS ETF		
Class EUR Hedged (acc)	0.19%	0.19%
Class USD (acc)	0.19%	0.19%
China A Research Enhanced Index Equity (ESG) UCITS ETF <sup>1</sup>		
Class USD (acc)	0.40%	0.40%
Class USD (dist)	0.40%	0.40%
Climate Change Solutions UCITS ETF <sup>5</sup>		
Class USD (acc)	0.55%	0.55%
EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF		
Class EUR (acc)	0.19%	0.19%

<sup>&</sup>lt;sup>1</sup>Sub-Fund launched on 15 February 2022. <sup>2</sup>Sub-Fund launched on 17 March 2022. <sup>3</sup>Sub-Fund launched on 9 August 2022. <sup>4</sup>Sub-Fund launched on 6 December 2022. <sup>5</sup>Sub-Fund launched on 14 June 2022.

2.	Total	Expense	Ratios (	(continued)	١

Sub-Funds	Actual TER (net of waiver fees)	Maximum TER as per Prospectus
EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF		
Class EUR (acc)	0.19%	0.19%
Class GBP Hedged (acc)	0.19%	0.19%
EUR Ultra-Short Income UCITS ETF		
Class EUR (acc)	0.08%	0.18% <sup>†</sup>
Europe Research Enhanced Index Equity (ESG) UCITS ETF		
Class EUR (acc)	0.25%	0.25%
Class EUR (dist)	0.25%	0.25%
Eurozone Research Enhanced Index Equity (ESG) UCITS ETF <sup>6</sup>	0.25%	0.250/
Class EUR (acc)	0.25%	0.25%
Class EUR (dist)	0.25%	0.25%
GBP Ultra-Short Income UCITS ETF	0.100/	0.100/#
Class GBP (acc)	0.10% 0.10%	0.18% <sup>#</sup> 0.18% <sup>#</sup>
Class GBP (dist)	0.10%	0.18%"
Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF <sup>7</sup>		
Class USD (acc)	0.30%	0.30%
Class USD (dist)	0.30%	0.30%
Global Equity Multi-Factor UCITS ETF		
Class USD (acc)	0.19%	0.19%
Global High Yield Corporate Bond Multi-Factor UCITS ETF		
Class CHF Hedged (acc)	0.35%	0.35%
Class EUR Hedged (dist)	0.35%	0.35%
Class GBP Hedged (dist)	0.35% 0.35%	0.35% 0.35%
Class MXN Hedged (acc) Class USD (acc)	0.35%	0.35%
Class USD (dist)	0.35%	0.35%
Class USD Hedged (acc)	0.35%	0.35%
Global Research Enhanced Index Equity (ESG) UCITS ETF		
Class EUR Hedged (acc)	0.25%	0.25%
Class GBP Hedged (acc)	0.25%	0.25%
Class USD (acc)	0.25%	0.25%
Class USD (dist)	0.25%	0.25%
Japan Research Enhanced Index Equity (ESG) UCITS ETF8		
Class CHF Hedged (acc)	0.25%	0.25%
Class EUR Hedged (acc)	0.25%	0.25%
Class JPY (acc) Class USD (acc)	0.25% 0.25%	0.25% 0.25%
Class USD (dist)	0.25%	0.25%
RMB Ultra-Short Income UCITS ETF9		
Class USD (acc)	0.28%	0.28%
Class USD (dist)	0.28%	0.28%
UK Equity Core UCITS ETF <sup>10</sup>		
Class GBP (acc)	0.25%	0.25%
Class GBP (dist)	0.25%	0.25%
US Equity Multi-Factor UCITS ETF <sup>11</sup>		
Class USD (acc)	0.19%	0.19%

<sup>&</sup>lt;sup>6</sup>Sub-Fund launched on 26 April 2022.

<sup>7</sup>JPMorgan Funds - Global Emerging Markets Research Enhanced Index Equity Fund merged into JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF on 20 May 2022.

<sup>8</sup>Sub-Fund launched on 29 March 2022.

<sup>9</sup>Sub-Fund launched on 1 March 2022.

<sup>10</sup>Sub-Fund launched on 14 June 2022.

<sup>11</sup>Sub-Fund liquidated on 23 November 2022.

#### 2. Total Expense Ratios (continued)

Sub-Funds	Actual TER (net of waiver fees)	Maximum TER as per Prospectus
US Research Enhanced Index Equity (ESG) UCITS ETF		
Class CHF Hedged (acc)	0.20%	0.20%
Class EUR Hedged (acc)	0.20%	0.20%
Class USD (acc)	0.20%	0.20%
Class USD (dist)	0.20%	0.20%
USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF		
Class EUR Hedged (acc)	0.19%	0.19%
Class GBP Hedged (acc)	0.19%	0.19%
Class USD (acc)	0.19%	0.19%
Class USD (dist)	0.19%	0.19%
USD Emerging Markets Sovereign Bond UCITS ETF		
Class CHF Hedged (acc)	0.39%	0.39%
Class EUR Hedged (acc)	0.39%	0.39%
Class GBP Hedged (dist)	0.39%	0.39%
Class MXN Hedged (acc)	0.39%	0.39%
Class USD (acc)	0.39%	0.39%
Class USD (dist)	0.38%	0.39%
USD Ultra-Short Income UCITS ETF		
Class USD (acc)	0.18%	0.18%
Class USD (dist)	0.18%	0.18%

<sup>†</sup> With effect from 9 May 2019, the Management Company had granted a fee waiver of 0.10% per annum which was was due to cease on 1 June 2022. The Management Company has decided to extend this fee waiver until 31 May 2023. From 1 June 2023, the TER will revert to up to 0.18% per annum.

# With effect from 1 April 2020, the Management Company had granted a fee waiver of 0.08% per annum which was due to cease on 1 April 2022. The Management Company has decided to extend this fee waiver until 31 March 2023. From 1 April 2023, the TER will revert to up to 0.18% per annum.

#### 3. Securities Financing Transactions

The ICAV engages in Securities Financing Transactions (as defined in Article 3 of Regulation (EU) 2015/2365, Securities Financing Transactions include repurchase transactions, securities or commodities lending and securities or commodities borrowing, buy-sell back transactions or sell-buy back transactions and margin lending transactions) through its exposure on securities lending transactions during the year. In accordance with Article 13 of the Regulation, the information on securities lending transactions are detailed below.

Collateral received or granted with respect to Securities Financing Transactions are disclosed on a trade date basis of accounting.

#### Global Data

#### Amount of securities on loan

The total value of securities on loan as a proportion of the Sub-Funds' total lendable assets as at the reporting date is detailed below. Total lendable assets represent the aggregate value of asset types forming part of the Sub-Funds' securities lending programme.

Sub-Fund	% of Total Lendable Assets
JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	4.55
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF	0.09
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Small Cap Equity UCITS ETF	0.24
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	0.75
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-3 Months UCITS ETF	4.46
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond UCITS ETF	0.34
JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF	1.54
JPMorgan ETFs (Ireland) ICAV - Global High Yield Corporate Bond Multi-Factor UCITS ETF	1.49
JPMorgan ETFs (Ireland) ICAV - USD Emerging Markets Sovereign Bond UCITS ETF	9.26

Amount of assets engaged in securities lending transactions

#### Securities lending transactions

The following table represents the total value of assets engaged in securities lending transactions as at the reporting date:

Sub-Fund	Sub-Fund Currency	Market Value of Securities on Loan (in Sub-Fund Currency)	% of AUM
JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	EUR	2,513,078	4.53
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF	USD	16,139	0.09
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Small Cap Equity UCITS ETF	USD	45,820	0.24
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	USD	18,477,028	0.75
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond 0-3 Months UCITS ETF	USD	4,774,323	4.48
JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond UCITS ETF	USD	716,782	0.34
JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF	USD	1,333,775	1.53
JPMorgan ETFs (Ireland) ICAV - Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD	3,160,631	1.46
JPMorgan ETFs (Ireland) ICAV - USD Emerging Markets Sovereign Bond UCITS ETF	USD	34,702,757	9.08

#### **Concentration Data**

Ten largest collateral issuers

#### Securities lending transactions

The following table lists the ten largest issuers by value of non-cash collaterals received by the Sub-Funds across securities lending transactions as at the reporting date:

JPMorgan ETFs (Ireland) ICAV - BetaBuilders EUR Govt E	Bond 1-3 vr UCITS ETF

Issuer	Non-Cash Collateral EUR
Austria Government	35,956
Belgium Government	284,567
France Government	398,118
Germany Government	736,452
Netherlands Government	177,067
UK Treasury	976,245

#### JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Small Cap Equity UCITS ETF

Issuer	Non-Cash Collateral USD
France Government	48,255

#### JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF

Issuer	Non-Cash Collateral USD
Austria Government	1,063
Belgium Government	1,828
Finland Government	552
France Government	2,650
UK Treasury	942
US Treasury	3,532

#### JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF

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Issuer	Non-Cash Collateral USD
Austria Government	108,352
Belgium Government	289,449
Finland Government	30,921
France Government	236,021
Germany Government	140,617
UK Treasury	152,436
US Treasury	516,242

#### 3. Securities Financing Transactions (continued)

JPMorgan ETFs (Ireland) ICAV - Global High Yield Corporate Bond Multi-Factor UCITS ETF JPMorgan ETFs (Ireland) IC		JPMorgan ETFs (Ireland) ICAV - USD Emerging	ICAV - USD Emerging Markets Sovereign Bond UCITS ETF	
Issuer	Non-Cash Collateral USD	_Issuer	Non-Cash Collateral USD	
Austria Government	112,576	Austria Government	1,727,296	
Belgium Government	271,023	Belgium Government	6,850,934	
France Government	1,069	Finland Government	1,000,042	
Germany Government	22,121	France Government	11,128,783	
UK Treasury	1,253,944	Germany Government	3,789,348	
		Netherlands Government	647,110	
		HK Treasury	11 465 559	

#### Top ten counterparties

#### Securities lending transactions

The following table lists the top ten counterparties across securities lending transactions as at the reporting date:

JPMorgan ETFS (Ireland) ICAV - BetaBuilders EUR GOVT Bond 1-3 yr UCITS ETF		
	Amount	
	EUR	% of AUM
Bank of Nova Scotia	1,260,861	2.27
BNP Paribas	1,252,217	2.26

JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Equity UCITS ETF		
	Amount USD	% of AUM
Bank of America Merrill Lynch	4,963	0.03
HSBC	3,503	0.02
UBS	7,458	0.04
Wells Eargo	215	_

JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Small Cap Equity UCITS ETF		
	Amount USD	% of AUM
Bank of America Merrill Lynch	45,820	0.24

JPMorgan ETFs (Ireland) ICAV - E	setaBuilders US Treasury Bond O	-1 yr UCITS ETF	
	Amount		
USD 9			
Wells Fargo	18 477 028	0.75	

JPMorgan ETFS (Ireland) ICAV - Be	etaBullders uS Treasury Bond O	-3 Months ucits etf
	Amount	
	USD	% of AUM
Wells Fargo	4.774.323	4.48

JPMorgan ETFs (Ireland) ICAV - BetaBuilders US Treasury Bond UCITS ETF			
	Amount USD	% of AUM	
Bank of America Merrill Lynch	198,961	0.09	
Wells Fargo	517,821	0.25	

JPMorgan ETFs (Ireland) ICAV - Global Equity Multi-Factor UCITS ETF				
	Amount USD	% of AUM		
BNP Paribas	547,033	0.63		
HSBC	102,954	0.12		
UBS	683,788	0.78		

JPMorgan ETFS (ITerand) ICAV - Global High Yield Corporate Bond Multi-Factor ucit's ETF		
	Amount	
	USD	% of AUM
BNP Paribas	816,051	0.38
HSBC	1,608,084	0.74
Jefferies	353,283	0.16
RRC	383 213	0.18

	Amount	
	USD	% of AUM
Bank of America Merrill Lynch	16,172,091	4.23
BNP Paribas	3,384,024	0.88
HSBC	14,435,648	3.78
Jefferies	710,994	0.19

#### **Aggregate Transaction Data**

Type and quality of collateral

#### Securities lending transactions

Collaterals received by the Sub-Funds in respect of securities lending transactions as at the reporting date are in the form of debt securities having investment grade credit rating.

Sub-Fund	Sub-Fund Currency	Non-Cash Collateral Value (in Sub-Fund Currency)	% of Non-Cash Collateral deemed Investment Grade
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	EUR	2,608,405	100.00%
BetaBuilders US Equity UCITS ETF	USD	10,567	100.00%
BetaBuilders US Small Cap Equity UCITS ETF	USD	48,255	100.00%
Global Equity Multi-Factor UCITS ETF	USD	1,474,038	100.00%
Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD	1,660,733	100.00%
USD Emerging Markets Sovereign Bond UCITS ETF	USD	36,609,072	100.00%

#### 3. Securities Financing Transactions (continued)

Maturity tenor of collateral

#### Securities lending transactions

The following table provides an analysis of the maturity tenor of collaterals received in relation to securities lending transactions as at the reporting date.

			Collateral Value		
	BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	BetaBuilders US Equity UCITS ETF	BetaBuilders US Small Cap Equity UCITS ETF	BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	BetaBuilders US Treasury Bond 0-3 Months UCITS ETF
Maturity	EUR	USD	USD	USD	USD
Cash					
less than 1 day	-	6,299	-	18,649,152	4,804,400
Non-Cash					
1 to 7 days	-	=	=	-	=
1 to 4 weeks	4,857	=	=	-	=
1 to 3 months	84	96	=	=	-
3 to 12 months	152,755	1,852	18,181	=	-
more than 1 year	2,450,709	8,619	30,074	-	-
	2,608,405	16,866	48,255	18,649,152	4,804,400

	Collateral Value				
	BetaBuilders US Treasury Bond UCITS ETF	Global Equity Multi-Factor UCITS ETF	Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD Emerging Markets Sovereign Bond UCITS ETF	
Maturity	USD	USD	USD	USD	
Cash					
less than 1 day	731,118	-	1,585,532	726,650	
Non-Cash					
1 to 7 days	-	=	-	818,406	
1 to 4 weeks	-	16,579	=	747,831	
1 to 3 months	-	27,529	-	3,059,891	
3 to 12 months	-	39,562	96,721	1,424,442	
more than 1 year	-	1,390,368	1,564,012	30,558,502	
	731,118	1,474,038	3,246,265	37,335,722	

#### Currency of collateral

#### Securities lending transactions

The following table provides currency of collaterals received in relation to securities lending transactions as at the reporting date.

		Collateral Value (in Sub-Fund Currency)			
Sub-Fund	Sub-Fund Currency	EUR	GBP	USD	Total
BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF	EUR	1,632,160	976,245	-	2,608,405
BetaBuilders US Equity UCITS ETF	USD	6,093	942	9,831	16,866
BetaBuilders US Small Cap Equity UCITS ETF	USD	48,255	-	-	48,255
BetaBuilders US Treasury Bond 0-1 yr UCITS ETF	USD	-	-	18,649,152	18,649,152
BetaBuilders US Treasury Bond 0-3 Months UCITS ETF	USD	-	-	4,804,400	4,804,400
BetaBuilders US Treasury Bond UCITS ETF	USD	-	-	731,118	731,118
Global Equity Multi-Factor UCITS ETF	USD	805,360	152,436	516,242	1,474,038
Global High Yield Corporate Bond Multi-Factor UCITS ETF	USD	1,660,733	-	1,585,532	3,246,265
USD Emerging Markets Sovereign Bond UCITS ETF	USD	36,609,072	-	726,650	37,335,722

#### Maturity tenor of securities lending agreements

#### Securities lending transactions

The ICAV's securities lending transactions have open maturity.

#### Country in which counterparties are established

#### Securities lending transactions

The following table provides details of the country of incorporation of counterparties across securities lending transactions:

Counterparty	Country of Incorporation	Counterparty	Country of Incorporation
Bank of America Merrill Lynch	United States of America	Jefferies	United States of America
Bank of Nova Scotia	Canada	RBC	Canada
BNP Paribas	France	UBS	Switzerland
HSBC	United Kingdom	Wells Fargo	United States of America

Unaudited Appendix (continued)

#### 3. Securities Financing Transactions (continued)

Settlement and clearing

All Sub-Funds engaged in securities lending agreements utilise bi-lateral settlement and clearing with their respective counterparty.

#### Reuse of collateral

Share of collateral received that is reused and reinvestment return

Non-cash collateral received by way of title transfer collateral arrangement in relation to securities lending transactions, reverse repurchase agreements and OTC derivative transactions, cannot be sold, reinvested or pledged.

#### Securities lending transactions

As at the year end, all of the cash collateral received in respect of securities lending was re-invested into Reverse Repurchase Transactions with high quality government bonds as collateral. This is managed by the Securities Lending Agent based solely on the approved guidelines and agreement issued by JPMorgan Asset Management (Europe) S.à r.l..

Income earned by the Sub-Funds from the reinvestment of cash collateral, net of any interest payable to the relevant counterparty, amounted to USD 113,716 for the year ended 31 December 2022 and is recorded under the "Securities lending income" in the Statement of Comprehensive Income.

Details relating to the permitted reuse of cash collateral are disclosed in the latest Prospectus available from https://am.jpmorgan.com/ie/en/asset-management

#### Safekeeping of Collateral

Collateral received

#### Securities lending transactions

All collateral received, if any, is held at J.P. Morgan Chase Bank ("JPM") in its capacity as tri-party collateral manager in an account designated as client assets on JPM's books and records and therefore segregated from those of the borrower, J.P. Morgan SE and the tri-party collateral manager.

Collateral granted

#### Securities lending transactions

As at the reporting date, there was no collateral granted with respect to securities lending transactions.

#### Return and cost

#### Securities lending transactions

The total income earned from securities lending transactions is split between the relevant Sub-Funds and the securities lending agent. Detail of this split is disclosed in Note 18 to the Financial Statements.

Unaudited Appendix (continued)

#### 4. UCITS Remuneration Disclosures

JPMorgan Asset Management (Europe) S.àr.I. (the "Management Company") is the authorised manager of JPMorgan ETFs (Ireland) ICAV (the "Fund") and is part of the J.P. Morgan Chase & Co. group of companies. In this section, the terms "J.P. Morgan" or "Firm" refer to that group, and each of the entities in that group globally, unless otherwise specified.

This section of the annual report has been prepared in accordance with the Undertakings for Collective Investment in Transferable Securities (the "UCITS Directive") and the 'Guidelines on sound remuneration policies' issued by the European Securities and Markets Authority under the UCITS Directive. The information in this section is in respect of the most recent complete remuneration period ("Performance Year") as at the reporting date.

#### **Remuneration Policy**

A summary of the Remuneration Policy applying to the Management Company (the "Remuneration Policy") can be found at https://am.jpmorgan.com/lu/en/asset-management/adv/funds/policies/ (the "Remuneration Policy Statement"). This Remuneration Policy Statement includes details of how remuneration and benefits are calculated, including the financial and non-financial criteria used to evaluate performance, the responsibilities and composition of the Firm's Compensation and Management Development Committee, and the measures adopted to avoid or manage conflicts of interest. A copy of this policy can be requested free of charge from the Management Company.

The Remuneration Policy applies to all employees of the Management Company, including individuals whose professional activities may have a material impact on the risk profile of the Management Company or the UCITS Funds it manages ("UCITS Identified Staff"). The UCITS Identified Staff include members of the Board of the Management Company (the "Board"), senior management, the heads of relevant Control Functions, and holders of other key functions. Individuals are notified of their identification and the implications of this status on at least an annual basis.

The Board reviews and adopts the Remuneration Policy on an annual basis, and oversees its implementation, including the classification of UCITS Identified Staff. The Board last reviewed and adopted the Remuneration Policy that applied to the 2022 Performance Year in July 2022 with no material changes and was satisfied with its implementation.

#### **Quantitative Disclosures**

The table below provides an overview of the aggregate total remuneration paid to staff of the Management Company in respect of the 2022 Performance Year and the number of beneficiaries.

Due to the Firm's structure, the information needed to provide a further breakdown of remuneration attributable to the Company is not readily available and would not be relevant or reliable. However, for context, the Management Company manages 43 Alternative Investment Funds (with 47 Sub-Funds) and 6 UCITS (with 177 Sub-Funds) as at 31 December 2022, with a combined AUM as at that date of USD 14,508m and USD 397,350m respectively.

	Fixed remuneration	Variable remuneration	Total remuneration	Number of beneficiaries
All staff (USD '000s)	49,005	26,160	75,165	362

No performance fee was paid to any employees by JPMorgan ETFs (Ireland) ICAV in the year.

The aggregate total remuneration paid to UCITS Identified Staff in respect of the 2022 Performance Year was USD 105,367k, of which USD 7,459k relates to Senior Management and USD 97,908k relates to other UCITS Identified Staff<sup>1</sup>.

Unaudited Appendix (continued)

#### 5. Other Events

#### Events during the year

Prospectus and Supplement Changes

The Board agreed the following amendments to the Prospectus and Supplements of the Fund:

#### 21 February 2022

The following Sub-Funds were uplifted to Article 8 SFDR:

- JPMorgan ETFs (Ireland) ICAV EUR Ultra-Short Income UCITS ETF
- JPMorgan ETFs (Ireland) ICAV GBP Ultra-Short Income UCITS ETF
- JPMorgan ETFs (Ireland) ICAV USD Ultra-Short Income UCITS ETF

#### 16 March 2022

#### Supplement Changes:

JPMorgan ETFs (Ireland) ICAV - Japan Research Enhanced Index Equity (ESG) UCITS ETF: change of investment manager.

#### 21 March 2022

#### Prospectus Changes:

- · Incorporation of addendum dated 9 December 2021
- Update to Sub-Fund list to include recently noted Sub-Funds and renamed Sub-Funds
- Amendments to allow reinvestment of cash collateral, including haircut policies for cash collateral, in relation to Securities Lending
- Update to LIBOR Discontinuance or Unavailability Risk and Liquidity Risk
- Update to include minimum subscription and redemption amounts on the Secondary Market
- Change of NAV per share calculation to nearest four decimal places
- · Updates to Directors of the Management Company
- Updates to Schedule II Recognised Markets
- Addition of information for investors in Australia
- · Change of address of UK Facilities Agent

#### Supplement Changes:

The supplements for the following Sub-Funds have been updated to reflect changes to the dealing deadlines:

- JPMorgan ETFs (Ireland) ICAV BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders EUR Govt Bond UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders UK Gilt 1-5 yr UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Betabuilders US Equity UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond O-1 yr UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Betabuilders US Treasury Bond O-3 Months UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Betabuilders US Treasury Bond 1-3 yr UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Carbon Transition Global Equity (CTB) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Global Equity Multi-Factor UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Global High Yield Corporate Bond Multi-Factor UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Global Research Enhanced Index Equity (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV US Equity Multi-Factor UCITS ETF
- JPMorgan ETFs (Ireland) ICAV US Research Enhanced Index Equity (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV USD Emerging Markets Sovereign Bond UCITS ETF
- JPMorgan ETFs (Ireland) ICAV USD Ultra-Short Income UCITS ETF

The supplements for the remaining Sub-Funds have been redated as required by the CBI as a result of the Prospectus update.

#### 13 April 2022

#### Prospectus Changes:

#### Extension of Fee Waiver:

- JPMorgan ETFs (Ireland) ICAV EUR Ultra-Short Income UCITS ETF
- JPMorgan ETFs (Ireland) ICAV GBP Ultra-Short Income UCITS ETF

Unaudited Appendix (continued)

#### 5. Other Events (continued)

21 July 2022

#### Prospectus Changes:

- Additional prospectus disclosure to comply with MiFID preferences:
  - Sustainability Risk
  - Schedule 1 Definitions
- Update to Schedule IV Information for investors in certain countries.

#### Supplement Updates:

Updates for the following Sub-Funds to comply with MiFID preferences:

- · JPMorgan ETFs (Ireland) ICAV AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV China A Research Enhanced Index Equity (ESG) UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV EUR Ultra-Short Income UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Europe Research Enhanced Index Equity (ESG) UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV Eurozone Research Enhanced Index Equity (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV GBP Ultra-Short Income UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Global Research Enhanced Index Equity (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV Japan Research Enhanced Index Equity (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV US Research Enhanced Index Equity (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF
- JPMorgan ETFs (Ireland) ICAV USD Ultra-Short Income UCITS ETF

#### 29 July 2022

#### Supplement Update:

Update to JPMorgan ETFs (Ireland) ICAV - Japan Research Enhanced Index Equity (ESG) UCITS ETF to allow launch of unhedged JPY denominated share classes.

#### 13 September 2022

#### Prospectus Change:

JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF - uplift to SFDR Article 9 and change of name.

#### 29 November 2022

#### Prospectus Change:

Update to prospectus for disclosure relating to SFDR L2.

#### Supplement Updates:

- Update to supplements for Article 8 and 9 Sub-Funds to include Level 2 annex
- · Update to following Sub-Funds to include "promote" wording:
  - JPMorgan ETFs (Ireland) ICAV Europe Research Enhanced Index Equity (ESG) UCITS ETF
  - JPMorgan ETFs (Ireland) ICAV Global Research Enhanced Index Equity (ESG) UCITS ETF
  - JPMorgan ETFs (Ireland) ICAV Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF
  - JPMorgan ETFs (Ireland) ICAV US Research Enhanced Index Equity (ESG) UCITS ETF
- · Redating only of supplements for Article 6 Sub-Funds

#### 6. Sustainable Finance Disclosure

The Sub-Funds below were categorised as Article 6 in respect of the Sustainable Finance Disclosure Regulation:

- · JPMorgan ETFs (Ireland) ICAV BetaBuilders China Aggregate Bond UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders EUR Govt Bond 1-3 yr UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders EUR Govt Bond UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders UK Gilt 1-5 yr UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders US Equity UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders US Small Cap Equity UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond 0-1 yr UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond 0-3 Months UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond 1-3 yr UCITS ETF
- JPMorgan ETFs (Ireland) ICAV BetaBuilders US Treasury Bond UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV Global Equity Multi-Factor UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV Global High Yield Corporate Bond Multi-Factor UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV RMB Ultra-Short Income UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV UK Equity Core UCITS ETF
- · JPMorgan ETFs (Ireland) ICAV USD Emerging Markets Sovereign Bond UCITS ETF

As at the year-end the investments underlying the financial products did not take into account the EU criteria for environmentally sustainable economic activities.

The Sub-Funds below were categorised as Article 8 in respect of the Sustainable Finance Disclosure Regulation. Detailed disclosures are available under the referred page numbers.

Sub-Fund Name	Page
JPMorgan ETFs (Ireland) ICAV - AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF	313
JPMorgan ETFs (Ireland) ICAV - China A Research Enhanced Index Equity (ESG) UCITS ETF	322
JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF	331
JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF	340
JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF	349
JPMorgan ETFs (Ireland) ICAV - Europe Research Enhanced Index Equity (ESG) UCITS ETF	358
JPMorgan ETFs (Ireland) ICAV - Eurozone Research Enhanced Index Equity (ESG) UCITS ETF	367
JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF	376
JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF	385
JPMorgan ETFs (Ireland) ICAV - Global Research Enhanced Index Equity (ESG) UCITS ETF	394
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The Sub-Funds below were categorised as Article 9 in respect of the Sustainable Finance Disclosure Regulation:

Sub-Fund Name	Page
JPMorgan ETFs (Ireland) ICAV - Carbon Transition China Equity (CTB) UCITS ETF	439
JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF	447
JPMorgan ETFs (Ireland) ICAV - Climate Change Solutions UCITS ETF	456

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - AC Asia Pacific ex Japan Research Enhanced Index Equity (ESG) UCITS ETF

Legal entity identifier: 549300LNQU42VQZXYH59

#### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?	
• • Yes	• No
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 52.34% of sustainable investments
in economic activities that qualify as environmentally sustainable under the EU Taxonomy  in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy  with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy  with a social objective
It made sustainable investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments



# To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (15 February 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 76.68% of investments with environmental and / or social characteristics and 52.34% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded companies that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out companies that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any companies during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such companies were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

#### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

#### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on a company's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, a company must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 76.68% of investments with environmental and / or social characteristics and 52.34% of sustainable investments.

In respect of the applied norms and values based exclusions, the Investment Manager utilised data to measure a company's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

#### ...and compared to previous periods?

Not applicable for 2022

#### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following during the Reference Period:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors, and (iii) provision of a decent working environment and culture

Contribution to such objectives may be understood by considering the actual % of assets allocated to sustainable investments for the Reference Period. The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 52.34% of its assets were sustainable investments.

# Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and

anti-bribery matters.

#### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 – 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

#### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable

energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose built screen.

#### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

#### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways required a company to be considered as an operational peer group leader to qualify as a sustainable investment. This required scoring against the indicator in the top 20% relative to peers.

#### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



# How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10 and 14 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is:

15/02/2022 - 31/12/2022

#### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LIMITED	Information Technology	5.57	Taiwan
TENCENT HOLDINGS LIMITED	Communication Services	4.24	Cayman Islands
SAMSUNG ELECTRONICS CO., LTD.	Information Technology	3.85	Korea (Republic of)
ALIBABA GROUP HOLDING LIMITED	Consumer Discretionary	2.57	Cayman Islands
BHP GROUP LIMITED	Materials	2.37	Australia
AIA GROUP LIMITED	Financials	2.20	Hong Kong
COMMONWEALTH BANK OF AUSTRALIA	Financials	1.70	Australia
CSL LTD	Health Care	1.67	Australia
MEITUAN	Consumer Discretionary	1.66	Cayman Islands
RELIANCE INDUSTRIES LIMITED	Energy	1.62	India
JD.COM, INC.	Consumer Discretionary	1.18	Cayman Islands
INFOSYS LIMITED	Information Technology	1.17	India
CHINA CONSTRUCTION BANK CORPORATION	Financials	1.16	China
HOUSING DEVELOPMENT FINANCE CORPORATION LIMITED	Financials	1.09	India
ICICI BANK LIMITED	Financials	1.02	India



#### What was the proportion of sustainability-related investments?

#### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 76.68% of its assets to companies that exhibited positive environmental and / or social characteristics and 52.34% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1A Sustainable: 52.34% #1A Sustainable: 52.34% Other Environmental: 36.39% #1B Other E/S characteristics: 24.34% Social: 15.95%

#### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

#### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Communication Services	Media & Entertainment	6.49
Communication Services	Telecommunication Services	1.29
Consumer Discretionary	Automobiles And Components	2.55
Consumer Discretionary	Consumer Durables And Apparel	1.84
Consumer Discretionary	Consumer Services	1.67
Consumer Discretionary	Retailing	6.63
Consumer Staples	Food And Staples Retailing	1.64
Consumer Staples	Food Beverage And Tobacco	3.67
Consumer Staples	Household And Personal Products	1.04
Energy	Energy	4.89
Financials	Banks	14.44
Financials	Diversified Financials	4.33
Financials	Insurance	5.42
Health Care	Health Care Equipment And Services	0.90
Health Care	Pharmaceuticals Biotech & Life Sciences	3.60
Industrials	Capital Goods	2.87
Industrials	Commercial & Professional Services	0.47
Industrials	Transportation	1.96
Information Technology Semiconductors And Semiconductor Equip		8.72
Information Technology	Software And Services	2.79
nformation Technology Technology Hardware And Equipment		5.69
Materials Materials		8.49
Real Estate	Real Estate	3.76
Utilities	Utilities	2.49
	•	

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the



# To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable

criteria include
comprehensive safety
and waste
management rules.
Enabling activities
directly enable other
activities to make a
substantial
contribution to an
environmental
objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

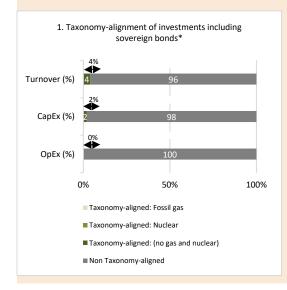
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

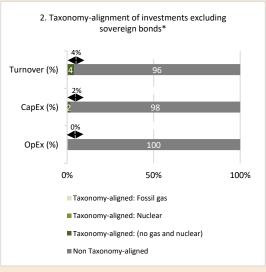
Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes
In fossil gas
In nuclear energy

No

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 6% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

#### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

The calculated share of Transitioning activities represents 0.02% and the calculated share of Enabling activities represents 1.26%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



# What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 36.39% of assets at the end of the reference period.



#### What was the share of socially sustainable investments?

The share of socially sustainable investments was 15.95% of assets at the end of the reference period.



# What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 23.32% of assets in "other" investments were comprised of companies that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



# What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in companies with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to companies that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all companies in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?
Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - China A Research Enhanced Index Equity (ESG) UCITS ETF

Legal entity identifier: 549300MS7NNGMGDD0A09

#### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?			
• • Yes	• No		
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 38.73% of sustainable investments		
in economic activities that qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy		
in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy		
	with a social objective		
investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments		



## To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (15 February 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 80.15% of investments with environmental and / or social characteristics and 38.73% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded companies that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out companies that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any companies during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such companies were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

#### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

#### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on a company's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, a company must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 80.15% of investments with environmental and / or social characteristics and 38.73% of sustainable investments.

In respect of the applied norms and values based exclusions, the Investment Manager utilised data to measure a company's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

#### ...and compared to previous periods?

Not applicable for 2022

#### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following during the Reference Period:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors, and (iii) provision of a decent working environment and culture

Contribution to such objectives may be understood by considering the actual % of assets allocated to sustainable investments for the Reference Period. The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 38.73% of its assets were sustainable investments.

## Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and

anti-bribery matters.

#### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 – 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

#### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable

energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose built screen.

#### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

#### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways required a company to be considered as an operational peer group leader to qualify as a sustainable investment. This required scoring against the indicator in the top 20% relative to peers.

#### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



## How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10 and 14 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 15/02/2022 - 31/12/2022

#### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
KWEICHOW MOUTAI CO LTD	Consumer Staples	6.14	China
CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED	Industrials	2.46	China
CHINA MERCHANTS BANK CO., LTD.	Financials	2.36	China
WULIANGYE YIBIN CO LTD	Consumer Staples	2.17	China
PING AN INSURANCE (GROUP) COMPANY OF CHINA, LTD.	Financials	1.66	China
CHINA YANGTZE POWER COMPANY LIMITED	Utilities	1.52	China
SHENZHEN MINDRAY BIO- MEDICAL ELECTRONICS CO., LTD	Health Care	1.34	China
BYD COMPANY LIMITED	Consumer Discretionary	1.31	China
INDUSTRIAL BANK CO., LTD.	Financials	1.21	China
FOSHAN HAITIAN FLAVOURING & FOOD CO LTD	Consumer Staples	1.12	China
LONGI GREEN ENERGY TECHNOLOGY CO., LTD.	Information Technology	1.11	China
WANHUA CHEMICAL GROUP CO., LTD.	Materials	1.07	China
INDUSTRIAL AND COMMERCIAL BANK OF CHINA LIMITED	Financials	0.99	China
PING AN BANK CO., LTD.	Financials	0.96	China
AIER EYE HOSPITAL GROUP CO LTD	Health Care	0.90	China

What was the proportion of sustainability-related investments?

#### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 80.15% of its assets to companies that exhibited positive environmental and / or social characteristics and 38.73% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

## #1 Aligned with E/S characteristics: 80.15% #18 Other E/S characteristics: 41.42% #2 Other: 19.85% #18 Other E/S characteristics: 41.42% #3 Social: 16.26%

#### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

#### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Communication Services	Media & Entertainment	0.58
Communication Services	Telecommunication Services	0.38
Consumer Discretionary	Automobiles And Components	3.47
Consumer Discretionary	Consumer Durables And Apparel	2.71
Consumer Discretionary	Consumer Services	0.12
Consumer Discretionary	Retailing	0.88
Consumer Staples	Food And Staples Retailing	0.53
Consumer Staples	Food Beverage And Tobacco	16.55
Consumer Staples	Household And Personal Products	0.10
Energy	Energy	2.67
Financials	Banks	10.70
Financials	Diversified Financials	4.45
Financials	Insurance	2.89
Health Care	Health Care Equipment And Services	3.60
Health Care	Pharmaceuticals Biotech & Life Sciences	5.85
Industrials	Capital Goods	12.40
Industrials	Commercial & Professional Services	0.36
Industrials	Transportation	2.84
Information Technology	Semiconductors And Semiconductor Equip	5.26
Information Technology	Software And Services	2.04
Information Technology	Technology Hardware And Equipment	4.64
Materials	Materials	11.60
Real Estate	Real Estate	1.54
Utilities	Utilities	3.29

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the



## To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable

criteria include
comprehensive safety
and waste
management rules.
Enabling activities
directly enable other
activities to make a
substantial
contribution to an
environmental
objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

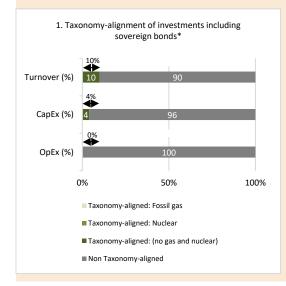
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

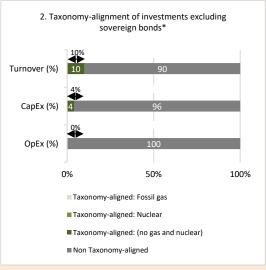
Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes
In fossil gas
In nuclear energy

No

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 14% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 6.71%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



## What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 22.47% of assets at the end of the reference period.



#### What was the share of socially sustainable investments?

The share of socially sustainable investments was 16.26% of assets at the end of the reference period.



## What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 19.85% of assets in "other" investments were comprised of companies that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



## What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in companies with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to companies that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all companies in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote.

- How does the reference benchmark differ from a broad market index?
  Not applicable
- How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond 1-5 yr Research Enhanced Index (ESG) UCITS ETF

Legal entity identifier: 549300QZUWYXU18WGV36

#### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?			
• • Yes	• No		
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 47.66% of sustainable investments		
in economic activities that qualify as environmentally sustainable under the EU Taxonomy  in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy  with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy  with a social objective		
It made sustainable investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments		



## To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (1 March 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 70.77% of investments with environmental and / or social characteristics and 47.66% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded issuers that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out issuers that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant issuers for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any issuers during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such issuers were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

#### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

#### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on an issuer's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, an issuer must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 70.77% of investments with environmental and / or social characteristics and 47.66% of sustainable investments.

In respect of the applied norms and values-based exclusions, the Investment Manager utilised data to measure an issuer's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

#### ...and compared to previous periods?

Not applicable for 2022

What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following or be linked to an environmental or social objective through the use of proceeds of the issue:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors and (iii) providing a decent working environment and culture.

Contribution to such objectives was determined by either: (i) products and services sustainability indicators, which may have included the percentage of revenue derived from providing products and / or services that contribute to the relevant sustainable objective, such as an issuer producing solar panels or clean energy technology that meets the Investment Manager's proprietary thresholds contributing to climate risk mitigation; (ii) the use of proceeds of the issue, if such use was designated as linked to a specific environmental or social objective, or (iii) was an operational peer group leader contributing to the relevant objective. Being a peer group leader is defined as scoring in the top 20% relative to the SubFund's benchmark based on certain operational sustainability indicators. For example, scoring in the top 20% relative to the Benchmark on total waste impact contributes to a transition to a circular economy. The test for supranational and sovereign issuers may consider the issuer's mission or contributions, as peer group leaders or improvers, to positive environmental and social objectives subject to certain criteria.

The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 47.66% of its assets were sustainable investments.

#### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those issuers which the Investment Manager considered the worst performing issuers, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those issuers demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those issuers that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively).

Indicators 10 - 14 relate to an issuer's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager also took into account PAI 16 in relation to Investee countries subject to social violations.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude issuers that may cause significant harm. It used a subset for engagement with certain issuers, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee issuers

Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and anti-bribery matters.

themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by issuers or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

#### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10, 14 and 16 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises, controversial weapons and investee countries subject to social violations. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee issuers in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager currently uses greenhouse gas intensity data (indicator 3), data in respect of non-renewable energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions. In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, the Investment Manager used a third-party representative proxy rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose-built screen.

#### Engagement

In addition to screening out certain issuers as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. A subset of the indicators was used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee issuers in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emission of air pollutants and number of days lost to injuries, accidents, fatalities or illness.

#### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways requires an issuer to be considered as an operational peer group leader to qualify as a sustainable investment. This requires scoring against the indicator in the top 20% relative to the Benchmark.

#### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



## How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10, 14 and 16 in relation to violations of the UN Global Compact and

controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the guestion directly above to demonstrate that an investment gualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee issuers based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 01/03/2022 - 31/12/2022

#### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
CAIXABANK, S.A.	Finance	2.40	Spain
CREDIT SUISSE GROUP AG	Finance	2.25	Switzerland
KBC GROUP NV	Finance	2.06	Belgium
UNICREDIT SPA	Finance	1.98	Italy
BANK OF AMERICA CORPORATION	Finance	1.84	United States
HEATHROW FUNDING LIMITED	Industrial	1.77	Jersey
UBS GROUP AG	Finance	1.74	Switzerland
INTERNATIONAL FLAVORS & FRAGRANCES INC.	Industrial	1.73	United States
NATWEST GROUP PLC	Finance	1.72	United Kingdom
BANQUE FEDERATIVE DU CREDIT MUTUEL SA	Finance	1.71	France
CITIGROUP INC.	Finance	1.71	United States
CADENT FINANCE PLC	Utilities	1.68	United Kingdom
DEUTSCHE BANK AG	Finance	1.59	Germany
SOCIETE GENERALE SA	Finance	1.55	France
ABBVIE INC.	Industrial	1.51	United States



#### What was the proportion of sustainability-related investments?

#### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 70.77% of its assets to issuers that exhibited positive environmental and / or social characteristics and 47.66% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1A Sustainable: 47.66% #1A Sustainable: 47.66% Other Environmental: 35.27% Investments #1B Other E/S characteristics: 23.11% Social: 12.39%

#### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

#### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors - please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Finance	Banking	38.90
Finance	Financial Other	1.16
Finance	Insurance	3.48
Finance	REITs	3.27
Industrial	Basic Industry	4.11
Industrial	Capital Goods	3.13
Industrial	Communications	5.14
Industrial	Consumer Cyclical	9.85
Industrial	Consumer Noncyclical	12.62
Industrial	Energy	4.23
Industrial	Technology	3.35
Industrial	Transportation	3.51
Utilities	Electric	3.84
Utilities	Natural Gas	3.19

To comply with the EU Taxonomy, the criteria for **fossil gas** include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the criteria include comprehensive safety and waste management rules. **Enabling activities** directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet



## To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more issuers disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

Did the financial product invest in fossil gas and/or nuclear energy related
activities complying with the EU Taxonomy ?

Yes	
In fossil gas	In nuclear energy

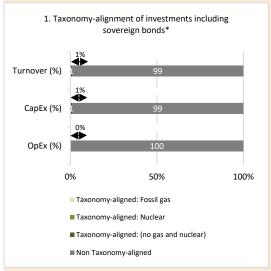
available and that have greenhouse gas emission levels corresponding to the best performance.

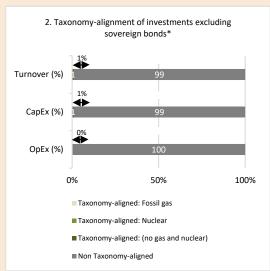
Taxonomy-aligned activities are expressed as a share of:

- turnover reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.



The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 2% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

<sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

#### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 0.04%, at the end of the reference period.

#### How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for



## What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 35.27% of assets at the end of the reference period.

environmentally sustainable economic activities under Regulation (EU) 2020/852.



#### What was the share of socially sustainable investments?

The share of socially sustainable investments was 12.39% of assets at the end of the reference period.



## What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 29.23% of assets in "other" investments were comprised of issuers that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM were not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



## What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 67% of assets in issuers with positive or improving E/S characteristics.
- The values and norms-based screening to implement full exclusions in relation issuers that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all issuers in the portfolio to follow good governance practices.
- The Sub-Fund also committed to investing at least 40% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



## How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?

Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

How did this financial product perform compared with the reference benchmark?
Not applicable

How did this financial product perform compared with the broad market index?

Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - EUR Corporate Bond Research Enhanced Index (ESG) UCITS ETF

Legal entity identifier: 549300Z5FR0TBRCVY095

#### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?			
• • Yes	• X No		
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 49.70% of sustainable investments		
in economic activities that qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy		
in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy		
It made sustainable investments with a social objective: %	with a social objective  It promoted E/S characteristics, but did not make any sustainable investments		



## To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (1 March 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 76.45% of investments with environmental and / or social characteristics and 49.70% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded issuers that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out issuers that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant issuers for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any issuers during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such issuers were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

#### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

#### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on an issuer's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, an issuer must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 76.45% of investments with environmental and / or social characteristics and 49.70% of sustainable investments.

In respect of the applied norms and values-based exclusions, the Investment Manager utilised data to measure an issuer's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

#### ...and compared to previous periods?

Not applicable for 2022

What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following or be linked to an environmental or social objective through the use of proceeds of the issue:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors and (iii) providing a decent working environment and culture.

Contribution to such objectives was determined by either: (i) products and services sustainability indicators, which may have included the percentage of revenue derived from providing products and / or services that contribute to the relevant sustainable objective, such as an issuer producing solar panels or clean energy technology that meets the Investment Manager's proprietary thresholds contributing to climate risk mitigation; (ii) the use of proceeds of the issue, if such use was designated as linked to a specific environmental or social objective, or (iii) was an operational peer group leader contributing to the relevant objective. Being a peer group leader is defined as scoring in the top 20% relative to the SubFund's benchmark based on certain operational sustainability indicators. For example, scoring in the top 20% relative to the Benchmark on total waste impact contributes to a transition to a circular economy. The test for supranational and sovereign issuers may consider the issuer's mission or contributions, as peer group leaders or improvers, to positive environmental and social objectives subject to certain criteria.

The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 49.70% of its assets were sustainable investments.

#### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those issuers which the Investment Manager considered the worst performing issuers, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those issuers demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those issuers that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively).

Indicators 10 - 14 relate to an issuer's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager also took into account PAI 16 in relation to Investee countries subject to social violations.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude issuers that may cause significant harm. It used a subset for engagement with certain issuers, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee issuers

Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and anti-bribery matters.

themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by issuers or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

#### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10, 14 and 16 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises, controversial weapons and investee countries subject to social violations. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee issuers in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager currently uses greenhouse gas intensity data (indicator 3), data in respect of non-renewable energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions. In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, the Investment Manager used a third-party representative proxy rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose-built screen.

#### Engagement

In addition to screening out certain issuers as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. A subset of the indicators was used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee issuers in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emission of air pollutants and number of days lost to injuries, accidents, fatalities or illness.

#### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways requires an issuer to be considered as an operational peer group leader to qualify as a sustainable investment. This requires scoring against the indicator in the top 20% relative to the Benchmark.

#### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



## How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10, 14 and 16 in relation to violations of the UN Global Compact and

controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the guestion directly above to demonstrate that an investment gualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee issuers based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 01/03/2022 - 31/12/2022

#### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
VOLKSWAGEN INTERNATIONAL FINANCE NV	Industrial	2.35	Netherlands
MORGAN STANLEY	Finance	2.02	United States
UNICREDIT SPA	Finance	1.94	Italy
NATWEST GROUP PLC	Finance	1.86	United Kingdom
BPCE SA	Finance	1.82	France
CREDIT AGRICOLE SA	Finance	1.81	France
UBS GROUP AG	Finance	1.76	Switzerland
BANQUE FEDERATIVE DU CREDIT MUTUEL SA	Finance	1.65	France
GOLDMAN SACHS GROUP, INC.	Finance	1.56	United States
ILLINOIS TOOL WORKS INC	Industrial	1.45	United States
ANHEUSER-BUSCH INBEV SA/NV	Industrial	1.43	Belgium
ABBVIE INC.	Industrial	1.34	United States
ASSICURAZIONI GENERALI SPA	Finance	1.30	Italy
AMERICAN MEDICAL SYSTEMS EUROPE B.V.	Industrial	1.30	Netherlands
THERMO FISHER SCIENTIFIC INC	Industrial	1.28	United States



#### What was the proportion of sustainability-related investments?

#### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 76.45% of its assets to issuers that exhibited positive environmental and / or social characteristics and 49.70% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

## #1A Sustainable: 49.70% #1A Sustainable: 49.70% Other Environmental: 37.61% Investments #2 Other: 23.55% #2 Other: 23.55% Figure 49.70% Social: 12.09%

#### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

#### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors - please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Finance	Banking	33.82
Finance	Financial Other	1.24
Finance	Insurance	6.33
Finance	REITs	4.00
Industrial	Basic Industry	3.23
Industrial	Capital Goods	4.63
Industrial	Communications	7.28
Industrial	Consumer Cyclical	8.58
Industrial	Consumer Noncyclical	14.60
Industrial	Energy	2.81
Industrial	Industrial Other	1.26
Industrial	Technology	2.55
Industrial	Transportation	3.58
Utilities	Electric	3.51
Utilities	Natural Gas	1.95
Utilities	Utility - Other	0.40

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For **nuclear energy**, the criteria include comprehensive safety and waste management rules. **Enabling activities** directly enable other activities to make a substantial contribution to an environmental objective. Transitional activities

are economic activities



## To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more issuers disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes

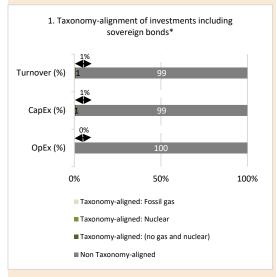
for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

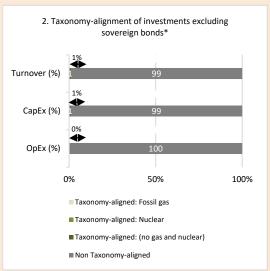
Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.



The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 2% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

#### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 0.08%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable





## What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 37.61% of assets at the end of the reference period.

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

environmentally sustainable economic activities under Regulation (EU) 2020/852.



#### What was the share of socially sustainable investments?

The share of socially sustainable investments was 12.09% of assets at the end of the reference period.



## What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 23.55% of assets in "other" investments were comprised of issuers that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM were not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



## What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 67% of assets in issuers with positive or improving E/S characteristics.
- The values and norms-based screening to implement full exclusions in relation issuers that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all issuers in the portfolio to follow good governance practices.
- The Sub-Fund also committed to investing at least 40% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



## How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?

Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

How did this financial product perform compared with the reference benchmark?
Not applicable
How did this financial product perform compared with the broad market index?

Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - EUR Ultra-Short Income UCITS ETF

Legal entity identifier: 549300VLYW8C82SV8738

#### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?				
• • Yes	• X No			
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 35.03% of sustainable investments			
in economic activities that qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy			
in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy			
It made sustainable investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments			



## To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with an asset allocation of 51% of investments having environmental and / or social characteristics and 10% of investments being sustainable investments. This commitment was met throughout the reference period (21 February 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 76.21% of investments with environmental and / or social characteristics and 35.03% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account related indicators, including (but not limited to) effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms

and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded issuers that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out issuers that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the reference period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any issuers during the reference period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such issuers were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape.

#### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

#### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on an issuer's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, an issuer must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 76.21% of investments with environmental and / or social characteristics and 35.03% of sustainable investments.

In respect of the applied norms and values-based exclusions, the Investment Manager utilised data to measure an issuer's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

#### ...and compared to previous periods?

Not applicable for 2022

#### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following or be linked to an environmental or social objective through the use of proceeds of the issue:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors and (iii) providing a decent working environment and culture.

Contribution to such objectives was determined by either (i) products and services sustainability indicators, which may include the percentage of revenue derived from providing products and / or services that contribute to the relevant sustainable objective, such as company producing solar panels or clean energy technology that meets the Investment Manager's proprietary thresholds contributing to climate risk mitigation; or (ii) being an operational peer group leader contributing to the relevant objective. Being a peer group leader is defined as scoring in the top 20% relative to the Sub-Fund's benchmark based on certain operational sustainability indicators. For example, scoring in the top 20% relative to the Benchmark on total waste impact contributes to a transition to a circular economy.

The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 35.03% of its assets were sustainable investments.

#### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively).

Indicators 10 - 14 relate to an issuer's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager also took into account PAI 16 in relation to Investee countries subject to social violations.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude issuers that may cause significant harm. It used a subset for engagement with certain issuers, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

Screening

Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and anti-bribery matters.

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10, 14 and 16 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises, controversial weapons and investee countries subject to social violations. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee issuers in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager currently uses greenhouse gas intensity data (indicator 3), data in respect of non-renewable energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions. In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, the Investment Manager used a third-party representative proxy rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose-built screen.

#### Engagement

In addition to screening out certain issuers as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. A subset of the indicators was used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee issuers in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emission of air pollutants and number of days lost to injuries, accidents, fatalities or illness.

#### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways requires an issuer to be considered as an operational peer group leader to qualify as a sustainable investment. This requires scoring against the indicator in the top 20% relative to the Benchmark.

#### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



## How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10, 14 and 16 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 21/02/2022 - 31/12/2022

#### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
BRED BANQUE POPULAIRE	Finance	8.49	France
Govt of Japan	Developed Market Government	7.24	Japan
SUMITOMO MITSUI FINANCIAL	Finance	4.07	United States
SVENSKA HANDELSBANKEN-A S	Finance	2.02	United States
LA BANQUE POSTALE SOCIETE ANONYME	Non-US Govt Related Credit	1.95	France
BARCLAYS PLC	ABS	1.78	United Kingdom
MITSUBISHI UFJ FINANCIAL	Finance	1.74	United Kingdom
PURPLE PROTECTED ASSET	Finance	1.70	Luxembourg
UNEDIC	Non-US Govt Related Credit	1.61	France
AGRI BANK OF CN A (HK-C)	Finance	1.52	Australia
BANK OF CHINA LTD-H	Finance	1.52	France
THE NORINCHUKIN BANK	Finance	1.44	Japan
ALLIANDER N.V.	Utilities	1.27	Netherlands
EUROFIMA EUROPEAN COMPANY FOR THE FINANCING OF RAILROAD ROLLING STOCK	Non-US Govt Related Credit	1.27	Switzerland
KINGDOM OF BELGIUM	Non-US Govt Related Credit	1.27	Belgium



#### What was the proportion of sustainability-related investments?

#### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 76.21% of its assets to issuers that exhibited positive environmental and / or social characteristics and 35.03% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1 Aligned with E/S characteristics: 76.21% #18 Other E/S characteristics: 41.18% #2 Other: 23.79% #18 Other E/S characteristics: 41.18% Taxonomy-aligned: 0.00% Other Environmental: 22.74% Social: 12.29%

#### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1** Aligned with E/S characteristics covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

#### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
ABS	ABCP	3.56
ABS	ABS - Auto	3.26
ABS	ABS - Cards	0.34
CLO	ABS CLO	3.17
Developed Market Government	Developed Market Bond	7.24
Finance	Banking	28.06
Finance	Financial Other	11.21
Finance	Insurance	1.82
Finance	REITs	1.14
Industrial	Capital Goods	1.88
Industrial	Communications	2.07
Industrial	Consumer Cyclical	4.47
Industrial	Consumer Noncyclical	3.68
Industrial	Energy	0.58
Industrial	Industrial Other	0.53
Industrial	Technology	1.94
Industrial	Transportation	1.16
Non-Agency CMO	Prime	0.87
Non-US Govt Related Credit	Foreign Agencies	5.32
Non-US Govt Related Credit	Foreign Local Govt	0.93
Non-US Govt Related Credit	Sovereign	1.27
Non-US Govt Related Credit	Supranational	1.27
Utilities	Electric	3.61
Utilities	Natural Gas	0.56

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the criteria include comprehensive safety and waste management rules.



## To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more issuers disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

The below graphs illustrate the actual extent of investments in sustainable investments with an environmental

#### **Enabling activities**

directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomy-aligned activities are expressed as a share of:

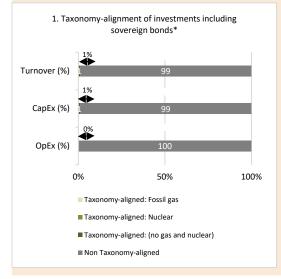
- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

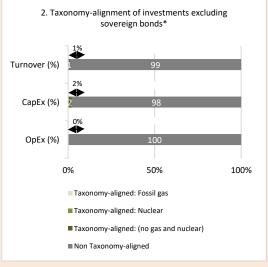
objective aligned with the EU Taxonomy as measured at the end of the reference period.

Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes	
In fossil gas	In nuclear energy
<b>X</b> No	

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 3% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

#### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments - including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

The calculated share of Transitioning activities represents 0.02% and the calculated share of Enabling activities represents 0.05%, at the end of the reference period.

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



## What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 22.74% of assets at the end of the reference period.



#### What was the share of socially sustainable investments?

The share of socially sustainable investments was 12.29% of assets at the end of the reference period.



## What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 23.79% of assets in "other" investments were comprised of issuers that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM were not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



## What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in issuers with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to issuers that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all issuers in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



## How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?

Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - Europe Research Enhanced Index Equity (ESG) UCITS ETF

Legal entity identifier: 549300RYCHMI4P7EKH68

### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?			
• • Yes	• No		
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 71.53% of sustainable investments		
in economic activities that qualify as environmentally sustainable under the EU Taxonomy  in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy  with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy  with a social objective		
It made sustainable investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments		



### To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (1 January 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 90.08% of investments with environmental and / or social characteristics and 71.53% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded companies that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out companies that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any companies during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such companies were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on a company's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, a company must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 90.08% of investments with environmental and / or social characteristics and 71.53% of sustainable investments.

In respect of the applied norms and values based exclusions, the Investment Manager utilised data to measure a company's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

### ...and compared to previous periods?

Not applicable for 2022

### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following during the Reference Period:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors, and (iii) provision of a decent working environment and culture

Contribution to such objectives may be understood by considering the actual % of assets allocated to sustainable investments for the Reference Period. The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 71.53% of its assets were sustainable investments.

## Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and

anti-bribery matters.

### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 – 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable

energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose built screen.

### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways required a company to be considered as an operational peer group leader to qualify as a sustainable investment. This required scoring against the indicator in the top 20% relative to peers.

### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



### How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10 and 14 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 01/01/2022 - 31/12/2022

### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
NESTLE SA-REG	Consumer Staples	3.89	SWITZERLAND
NOVO NORDISK A/S-B	Health Care	3.07	DENMARK
ASML HOLDING NV	Information Technology	3.03	NETHERLANDS
ROCHE HOLDING AG- GENUSSCHEIN	Health Care	2.94	SWITZERLAND
SHELL PLC	Energy	2.71	UNITED KINGDOM
ASTRAZENECA PLC	Health Care	2.63	UNITED KINGDOM
LVMH MOET HENNESSY LOUIS VUI	Consumer Discretionary	2.58	FRANCE
NOVARTIS AG-REG	Health Care	2.41	SWITZERLAND
TOTALENERGIES SE	Energy	1.93	FRANCE
BP PLC	Energy	1.91	UNITED KINGDOM
DIAGEO PLC	Consumer Staples	1.72	UNITED KINGDOM
L'OREAL	Consumer Staples	1.60	FRANCE
ALLIANZ SE-REG	Financials	1.57	GERMANY
SCHNEIDER ELECTRIC SE	Industrials	1.54	FRANCE
AIR LIQUIDE SA	Materials	1.47	FRANCE

### What was the proportion of sustainability-related investments?

### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 90.08% of its assets to companies that exhibited positive environmental and / or social characteristics and 71.53% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1 Aligned with E/S characteristics: 90.08% #2 Other: 9.92% #1 Aligned with E/S characteristics: #2 Other Environmental: 57.37% Taxonomy-aligned: 0.00% Other Environmental: 57.37% Social: 14.16%

### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Communication Services	Media & Entertainment	0.20
Communication Services	Telecommunication Services	2.54
Consumer Discretionary	Automobiles And Components	2.41
Consumer Discretionary	Consumer Durables And Apparel	5.30
Consumer Discretionary	Consumer Services	1.02
Consumer Discretionary	Retailing	2.05
Consumer Staples	Food And Staples Retailing	0.92
Consumer Staples	Food Beverage And Tobacco	7.60
Consumer Staples	Household And Personal Products	3.84
Energy	Energy	6.55
Financials	Banks	9.31
Financials	Diversified Financials	2.42
Financials	Insurance	5.52
Health Care	Health Care Equipment And Services	0.64
Health Care	Pharmaceuticals Biotech & Life Sciences	14.87
Industrials	Capital Goods	9.84
Industrials	Commercial & Professional Services	3.01
Industrials	Transportation	1.22
Information Technology	Semiconductors And Semiconductor Equip	3.73
Information Technology	Software And Services	2.69
Information Technology	Technology Hardware And Equipment	0.32
Materials	Materials	7.77
Real Estate	Real Estate	0.19
Utilities	Utilities	5.07

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the



### To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable

criteria include comprehensive safety and waste management rules. Enabling activities directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

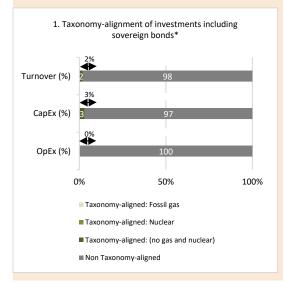
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

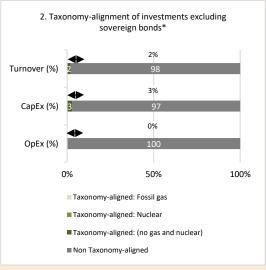
Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes
In fossil gas
In nuclear energy

X No

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 5% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 1.12%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



### What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 57.37% of assets at the end of the reference period.



### What was the share of socially sustainable investments?

The share of socially sustainable investments was 14.16% of assets at the end of the reference period.



### What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 9.92% of assets in "other" investments were comprised of companies that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



### What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in companies with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to companies that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all companies in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. • How does the reference benchmark differ from a broad market index?
Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

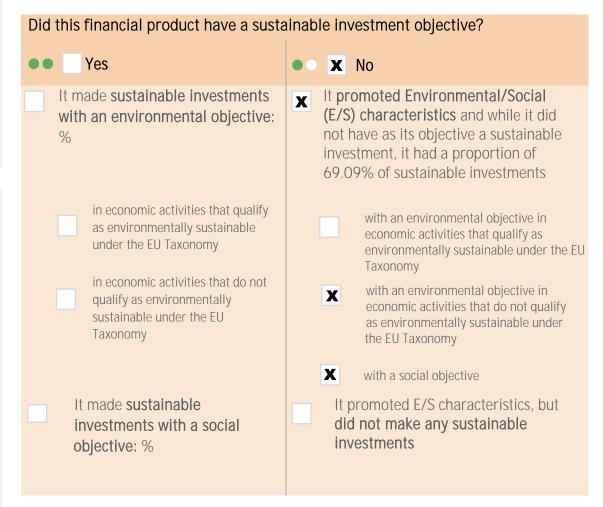
means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - Eurozone Research Enhanced Index Equity (ESG) UCITS ETF

Legal entity identifier: 549300H3CS4EAF89KJ62

### Environmental and/or social characteristics





### To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (26 January 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 87.83% of investments with environmental and / or social characteristics and 69.09% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded companies that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out companies that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any companies during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such companies were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on a company's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, a company must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 87.83% of investments with environmental and / or social characteristics and 69.09% of sustainable investments.

In respect of the applied norms and values based exclusions, the Investment Manager utilised data to measure a company's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

### ...and compared to previous periods?

Not applicable for 2022

### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following during the Reference Period:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors, and (iii) provision of a decent working environment and culture

Contribution to such objectives may be understood by considering the actual % of assets allocated to sustainable investments for the Reference Period. The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 69.09% of its assets were sustainable investments.

## Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and

anti-bribery matters.

### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 – 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable

energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose built screen.

### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways required a company to be considered as an operational peer group leader to qualify as a sustainable investment. This required scoring against the indicator in the top 20% relative to peers.

### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



### How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10 and 14 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 26/01/2022 - 31/12/2022

### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
ASML HOLDING NV	Information Technology	5.40	NETHERLANDS
LVMH MOET HENNESSY LOUIS VUI	Consumer Discretionary	4.86	FRANCE
TOTALENERGIES SE	Energy	4.19	FRANCE
SIEMENS AG-REG	Industrials	2.86	GERMANY
ALLIANZ SE-REG	Financials	2.65	GERMANY
L'OREAL	Consumer Staples	2.57	FRANCE
SCHNEIDER ELECTRIC SE	Industrials	2.42	FRANCE
AIR LIQUIDE SA	Materials	2.38	FRANCE
SANOFI	Health Care	2.36	FRANCE
Iberdrola SA	Utilities	2.33	SPAIN
Deutsche Telekom AG	Communication Services	2.16	GERMANY
SAP SE	Information Technology	2.09	GERMANY
VINCI SA	Industrials	1.91	FRANCE
BNP Paribas SA	Financials	1.69	FRANCE
BANCO BILBAO VIZCAYA ARGENTA	Financials	1.65	SPAIN

### What was the proportion of sustainability-related investments?

### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 87.83% of its assets to companies that exhibited positive environmental and / or social characteristics and 69.09% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

#1B Other E/S characteristics:

## #1 Aligned with E/S characteristics: 87.83% Investments Taxonomy-aligned: 0.00% Other Environmental: 50.84%

18.74%

### Asset allocation describes the share of

investments in specific assets.

#2 Other: 12.17%

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Communication Services	Media & Entertainment	0.13
Communication Services	Telecommunication Services	4.24
Consumer Discretionary	Automobiles And Components	4.87
Consumer Discretionary	Consumer Durables And Apparel	7.65
Consumer Discretionary	Consumer Services	0.46
Consumer Discretionary	Retailing	2.74
Consumer Staples	Food And Staples Retailing	0.92
Consumer Staples	Food Beverage And Tobacco	4.40
Consumer Staples	Household And Personal Products	2.57
Energy	Energy	4.98
Financials	Banks	9.49
Financials	Diversified Financials	0.96
Financials	Insurance	6.46
Health Care	Health Care Equipment And Services	2.88
Health Care	Pharmaceuticals Biotech & Life Sciences	4.71
Industrials	Capital Goods	12.14
Industrials	Commercial & Professional Services	1.33
Industrials	Transportation	1.49
Information Technology	Semiconductors And Semiconductor Equip	7.03
Information Technology	Software And Services	5.28
Information Technology	Technology Hardware And Equipment	0.52
Materials	Materials	6.55
Real Estate	Real Estate	0.28
Utilities	Utilities	7.13

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the



### To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable

criteria include comprehensive safety and waste management rules. Enabling activities directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

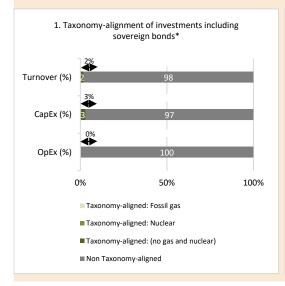
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

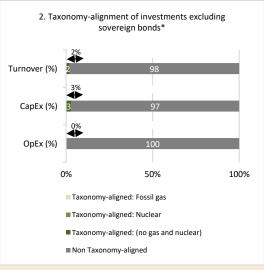
Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes
In fossil gas
In nuclear energy

X No

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 5% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 1.41%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



### What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 50.84% of assets at the end of the reference period.



### What was the share of socially sustainable investments?

The share of socially sustainable investments was 18.25% of assets at the end of the reference period.



### What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 12.17% of assets in "other" investments were comprised of companies that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



### What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in companies with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to companies that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all companies in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?
Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - GBP Ultra-Short Income UCITS ETF

Legal entity identifier: 5493008PW3DVRH81V083

### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?		
• • Yes	• No	
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 24.05% of sustainable investments	
in economic activities that qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy	
in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	
	with a social objective	
investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments	



### To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with an asset allocation of 51% of investments having environmental and / or social characteristics and 10% of investments being sustainable investments. This commitment was met throughout the reference period (21 February 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 86.18% of investments with environmental and / or social characteristics and 24.05% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account related indicators, including (but not limited to) effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms

and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded issuers that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out issuers that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the reference period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any issuers during the reference period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such issuers were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape.

### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on an issuer's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, an issuer must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 86.18% of investments with environmental and / or social characteristics and 24.05% of sustainable investments.

In respect of the applied norms and values-based exclusions, the Investment Manager utilised data to measure an issuer's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

### ...and compared to previous periods?

Not applicable for 2022

### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following or be linked to an environmental or social objective through the use of proceeds of the issue:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors and (iii) providing a decent working environment and culture.

Contribution to such objectives was determined by either (i) products and services sustainability indicators, which may include the percentage of revenue derived from providing products and / or services that contribute to the relevant sustainable objective, such as company producing solar panels or clean energy technology that meets the Investment Manager's proprietary thresholds contributing to climate risk mitigation; or (ii) being an operational peer group leader contributing to the relevant objective. Being a peer group leader is defined as scoring in the top 20% relative to the Sub-Fund's benchmark based on certain operational sustainability indicators. For example, scoring in the top 20% relative to the Benchmark on total waste impact contributes to a transition to a circular economy.

The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 24.05% of its assets were sustainable investments.

### Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective? The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which

considered sustainable investments.

social and employee

anti-bribery matters.

matters, respect for human

rights, anti-corruption and

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third party service providers.

### \_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively).

Indicators 10 - 14 relate to an issuer's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager also took into account PAI 16 in relation to Investee countries subject to social violations.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude issuers that may cause significant harm. It used a subset for engagement with certain issuers, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

Screening

assur as the Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10, 14 and 16 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises, controversial weapons and investee countries subject to social violations. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee issuers in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager currently uses greenhouse gas intensity data (indicator 3), data in respect of non-renewable energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions. In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, the Investment Manager used a third-party representative proxy rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose-built screen.

### Engagement

In addition to screening out certain issuers as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. A subset of the indicators was used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee issuers in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emission of air pollutants and number of days lost to injuries, accidents, fatalities or illness.

### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways requires an issuer to be considered as an operational peer group leader to qualify as a sustainable investment. This requires scoring against the indicator in the top 20% relative to the Benchmark.

### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



### How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10, 14 and 16 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 21/02/2022 - 31/12/2022

Asset allocation

assets.

describes the share of

### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
BRED BANQUE POPULAIRE	Finance	18.64	Sweden
COOPERATIEVE RABOBANK U.A., LONDON BRANCH DBA RABOBANK, LONDON BRANCH	Finance	13.67	Netherlands
Govt of Japan	Developed Market Government	5.74	Japan
BANK OF MONTREAL	Finance	2.49	Canada
BANK OF NOVA SCOTIA	Finance	1.91	Canada
NATIONWIDE BLDG SOCIETY	Finance	1.89	United Kingdom
NORDEA BANK ABP	Finance	1.64	Finland
UBS AG LONDON	Finance	1.31	Switzerland
DZ BANK AG DEUTSCHE ZENTRAL-GENO	Finance	1.24	Germany
NATIONAL AUSTRALIA BANK L	Finance	1.23	United Kingdom
DNB BANK ASA	Finance	1.19	Norway



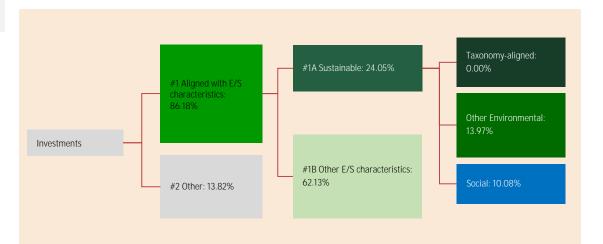
### What was the proportion of sustainability-related investments?

### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 86.18% of its assets to issuers that exhibited positive environmental and / or social characteristics and 24.05% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

### investments in specific



- #1 Aligned with E/S characteristics includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- #2 Other includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category #1 Aligned with E/S characteristics covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category #1B Other E/S characteristics covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
ABS	ABS - Auto	1.54
ABS	ABS - Cards	0.37
CLO	ABS CLO	1.46
Developed Market Government	Developed Market Bond	5.74
Finance	Banking	23.84
Finance	Brokerage	0.98
Finance	Financial Other	32.32
Finance	Insurance	0.29
Industrial	Capital Goods	2.15
Industrial	Communications	1.17
Industrial	Consumer Cyclical	5.11
Industrial	Consumer Noncyclical	0.67
Industrial	Technology	0.52
Industrial	Transportation	1.53
Non-Agency CMO	Prime	0.34
Non-US Govt Related Credit	Foreign Agencies	2.04
Utilities	Electric	1.96
Utilities	Utility - Other	0.84

To comply with the EU Taxonomy, the criteria for **fossil gas** include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the criteria include comprehensive safety and waste management rules. **Enabling activities** directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.



### To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more issuers disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

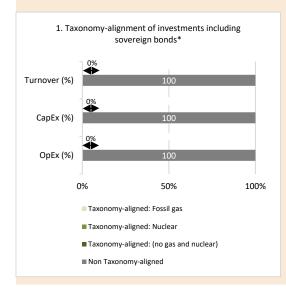
Did the financial product invest in fossil gas and/or nuclear energy relate	ď
activities complying with the EU Taxonomy¹?	

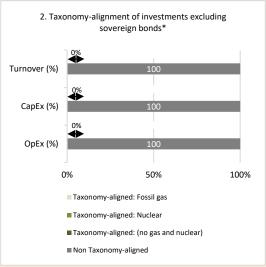
Yes	
In fossil gas	In nuclear energy
<b>X</b> No	

Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 0% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

<sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 0.01%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable



### What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 13.97% of assets at the end of the reference period.



### What was the share of socially sustainable investments?

The share of socially sustainable investments was 10.08% of assets at the end of the reference period.

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



### What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 13.82% of assets in "other" investments were comprised of issuers that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM were not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



### What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in issuers with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to issuers that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all issuers in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



### How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?

Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

How did this financial product perform compared with the reference benchmark?

Not applicable

	How dia this financial product perform compared with the broad market index?
	Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - Global Emerging Markets Research Enhanced Index Equity (ESG) UCITS ETF

Legal entity identifier: 549300P25ZMF0U5P3212

### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?			
• • Yes	• No		
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 52.64% of sustainable investments		
in economic activities that qualify as environmentally sustainable under the EU Taxonomy  in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy  with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy  with a social objective		
It made sustainable investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments		



### To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (1 January 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 78.16% of investments with environmental and / or social characteristics and 52.64% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded companies that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out companies that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any companies during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such companies were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on a company's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, a company must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 78.16% of investments with environmental and / or social characteristics and 52.64% of sustainable investments.

In respect of the applied norms and values based exclusions, the Investment Manager utilised data to measure a company's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

### ...and compared to previous periods?

Not applicable for 2022

### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following during the Reference Period:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors, and (iii) provision of a decent working environment and culture

Contribution to such objectives may be understood by considering the actual % of assets allocated to sustainable investments for the Reference Period. The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 52.64% of its assets were sustainable investments.

### Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and

anti-bribery matters.

### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 – 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable

energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose built screen.

### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways required a company to be considered as an operational peer group leader to qualify as a sustainable investment. This required scoring against the indicator in the top 20% relative to peers.

### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



### How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10 and 14 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 01/01/2022 - 31/12/2022

### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LIMITED	Information Technology	5.92	Taiwan
TENCENT HOLDINGS LIMITED	Communication Services	4.57	Cayman Islands
SAMSUNG ELECTRONICS CO., LTD.	Information Technology	4.10	Korea (Republic of)
ALIBABA GROUP HOLDING LIMITED	Consumer Discretionary	2.77	Cayman Islands
RELIANCE INDUSTRIES LIMITED	Energy	1.78	India
MEITUAN	Consumer Discretionary	1.77	Cayman Islands
JD.COM, INC.	Consumer Discretionary	1.22	Cayman Islands
CHINA CONSTRUCTION BANK CORPORATION	Financials	1.21	China
INFOSYS LIMITED	Information Technology	1.21	India
HOUSING DEVELOPMENT FINANCE CORPORATION LIMITED	Financials	1.15	India
ICICI BANK LIMITED	Financials	1.08	India
PING AN INSURANCE (GROUP) COMPANY OF CHINA, LTD.	Financials	0.96	China
AL RAJHI BANKING & INVESTMENT CORPORATION DBA AL RAJHI BANK	Financials	0.87	Saudi Arabia
PT BANK CENTRAL ASIA TBK	Financials	0.75	Indonesia
PETROLEO BRASILEIRO SA PETROBRAS	Energy	0.75	Brazil

### What was the proportion of sustainability-related investments?

### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 78.16% of its assets to companies that exhibited positive environmental and / or social characteristics and 52.64% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1 Aligned with E/S characteristics: 78.16% #18 Other E/S characteristics: 25.52% #2 Other: 21.84% #18 Other E/S characteristics: 25.52% #2 Other: 21.84%

### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Communication Services	Media & Entertainment	6.68
Communication Services	Telecommunication Services	3.28
Consumer Discretionary	Automobiles And Components	2.75
Consumer Discretionary	Consumer Durables And Apparel	1.79
Consumer Discretionary	Consumer Services	1.37
Consumer Discretionary	Retailing	7.58
Consumer Staples	Food And Staples Retailing	2.55
Consumer Staples	Food Beverage And Tobacco	3.57
Consumer Staples	Household And Personal Products	1.19
Energy	Energy	5.40
Financials	Banks	15.82
Financials	Diversified Financials	3.55
Financials	Insurance	3.70
Health Care	Health Care Equipment And Services	1.07
Health Care	Pharmaceuticals Biotech & 2.35 Life Sciences	
Industrials	Capital Goods	2.87
Industrials	Transportation	2.05
Information Technology	Semiconductors And Semiconductor Equip	8.75
Information Technology	Software And Services	2.81
Information Technology	Technology Hardware And 6.81 Equipment	
Materials	Materials	8.25
Real Estate	Real Estate 2.00	
Utilities	Utilities	2.41

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the criteria include comprehensive safety



### To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and /

and waste management rules. Enabling activities directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

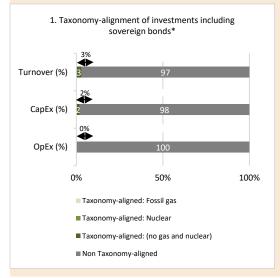
or social characteristics and sustainable investments (as defined by SFDR).

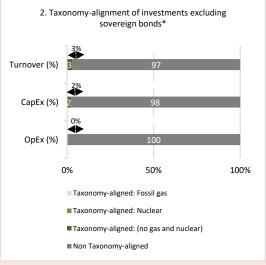
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes	
In fossil gas	In nuclear energy
<b>X</b> No	

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 5% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

<sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 1.47%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



### What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 35.76% of assets at the end of the reference period.



### What was the share of socially sustainable investments?

The share of socially sustainable investments was 16.88% of assets at the end of the reference period.



### What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 21.84% of assets in "other" investments were comprised of companies that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



### What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in companies with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to companies that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all companies in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



### How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?

Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - Global Research Enhanced Index Equity (ESG) UCITS ETF

Legal entity identifier: 5493003MML3DKPLHHR48

#### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?		
• • Yes	• No	
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 67.31% of sustainable investments	
in economic activities that qualify as environmentally sustainable under the EU Taxonomy  in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy  with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy  with a social objective	
It made sustainable investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments	



# To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (1 January 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 83.81% of investments with environmental and / or social characteristics and 67.31% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded companies that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out companies that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any companies during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such companies were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

#### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

#### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on a company's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, a company must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 83.81% of investments with environmental and / or social characteristics and 67.31% of sustainable investments.

In respect of the applied norms and values based exclusions, the Investment Manager utilised data to measure a company's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

#### ...and compared to previous periods?

Not applicable for 2022

#### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following during the Reference Period:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors, and (iii) provision of a decent working environment and culture

Contribution to such objectives may be understood by considering the actual % of assets allocated to sustainable investments for the Reference Period. The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 67.31% of its assets were sustainable investments.

# Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and

anti-bribery matters.

#### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 – 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

#### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable

energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose built screen.

#### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

#### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways required a company to be considered as an operational peer group leader to qualify as a sustainable investment. This required scoring against the indicator in the top 20% relative to peers.

#### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



# How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10 and 14 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 01/01/2022 - 31/12/2022

#### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
APPLE INC	Information Technology	4.12	United States
MICROSOFT CORPORATION	Information Technology	3.66	United States
ALPHABET INC	Communication Services	2.19	United States
AMAZON.COM, INC.	Consumer Discretionary	1.62	United States
UNITEDHEALTH GROUP INCORPORATED	Health Care	1.28	United States
EXXON MOBIL CORPORATION	Energy	1.24	United States
VISA INC	Information Technology	0.98	United States
MASTERCARD, INCORPORATED DBA MASTERCARD, INCORPORATED	Information Technology	0.92	United States
ABBVIE INC.	Health Care	0.90	United States
BERKSHIRE HATHAWAY INCORPORATED	Financials	0.87	United States
ELI LILLY AND COMPANY	Health Care	0.85	United States
COCA-COLA COMPANY	Consumer Staples	0.83	United States
PROCTER & GAMBLE COMPANY	Consumer Staples	0.76	United States
NESTLE SA	Consumer Staples	0.73	Switzerland
THERMO FISHER SCIENTIFIC INC	Health Care	0.71	United States



#### What was the proportion of sustainability-related investments?

#### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 83.81% of its assets to companies that exhibited positive environmental and / or social characteristics and 67.31% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1A Sustainable: 67.31% #1A Sustainable: 67.31% Other Environmental: 48.53% #1B Other E/S characteristics: 16.50% Social: 18.78%

#### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

#### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Communication Services	Telecommunication Services	1.39
Communication Services	Media & Entertainment	4.81
Consumer Discretionary	Automobiles And Components	1.82
Consumer Discretionary	Consumer Services	2.01
Consumer Discretionary	Consumer Durables And Apparel	2.03
Consumer Discretionary	Retailing	4.75
Consumer Staples	Food Beverage And Tobacco	4.00
Consumer Staples	Food And Staples Retailing	1.18
Consumer Staples	Household And Personal Products	2.28
Energy	Energy	5.66
Industrials	Transportation	2.54
Industrials	Capital Goods	6.37
Industrials	Commercial & Professional Services	1.11
Utilities	Utilities	3.25
Real Estate	Real Estate	2.53
Financials	Banks	6.04
Financials	Insurance	3.42
Financials	Diversified Financials	4.87
Materials	Materials	4.25
Health Care	Health Care Equipment And Services	4.71
Health Care	Pharmaceuticals Biotech & Life Sciences	9.67
Information Technology	Semiconductors And Semiconductor Equip	4.65
Information Technology	Software And Services	10.22
Information Technology	Technology Hardware And Equipment	5.66

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the



# To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable

criteria include comprehensive safety and waste management rules. Enabling activities directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

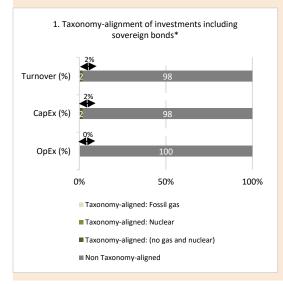
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

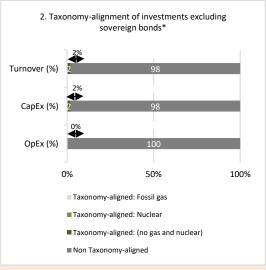
Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes
In fossil gas
In nuclear energy

No

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 4% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

The calculated share of Transitioning activities represents 0.09% and the calculated share of Enabling activities represents 1.20%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



# What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 48.53% of assets at the end of the reference period.



#### What was the share of socially sustainable investments?

The share of socially sustainable investments was 18.78% of assets at the end of the reference period.



# What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 16.19% of assets in "other" investments were comprised of companies that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



# What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in companies with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to companies that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all companies in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?
Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - Japan Research Enhanced Index Equity (ESG) UCITS ETF

Legal entity identifier: 549300U3RUHUSBSR2F25

#### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?		
• • Yes	• X No	
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 48.70% of sustainable investments	
in economic activities that qualify as environmentally sustainable under the EU Taxonomy  in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy  with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy  with a social objective	
It made sustainable investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments	



# To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (29 March 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 81.23% of investments with environmental and / or social characteristics and 48.70% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded companies that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out companies that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any companies during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such companies were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

#### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

#### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on a company's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, a company must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 81.23% of investments with environmental and / or social characteristics and 48.70% of sustainable investments.

In respect of the applied norms and values based exclusions, the Investment Manager utilised data to measure a company's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

#### ...and compared to previous periods?

Not applicable for 2022

#### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following during the Reference Period:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors, and (iii) provision of a decent working environment and culture

Contribution to such objectives may be understood by considering the actual % of assets allocated to sustainable investments for the Reference Period. The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 48.70% of its assets were sustainable investments.

# Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and

anti-bribery matters.

#### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 – 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

#### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable

energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose built screen.

#### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

#### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways required a company to be considered as an operational peer group leader to qualify as a sustainable investment. This required scoring against the indicator in the top 20% relative to peers.

#### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



# How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10 and 14 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 29/03/2022 - 31/12/2022

#### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
TOYOTA MOTOR CORPORATION	Consumer Discretionary	4.26	Japan
SONY GROUP CORPORATION	Consumer Discretionary	3.46	Japan
MITSUBISHI UFJ FINANCIAL GROUP, INC.	Financials	3.33	Japan
KEYENCE CORPORATION	Information Technology	2.77	Japan
SUMITOMO MITSUI FINANCIAL GROUP, INC.	Financials	2.38	Japan
DAIICHI SANKYO COMPANY, LIMITED	Health Care	2.11	Japan
HITACHI, LTD.	Industrials	2.05	Japan
NINTENDO COMPANY LIMITED	Communication Services	1.94	Japan
SHIN-ETSU CHEMICAL CO., LTD	Materials	1.92	Japan
KDDI CORPORATION	Communication Services	1.80	Japan
ITOCHU CORPORATION	Industrials	1.79	Japan
TOKIO MARINE HOLDINGS, INC.	Financials	1.73	Japan
TOKYO ELECTRON LIMITED	Information Technology	1.68	Japan
RECRUIT HOLDINGS CO., LTD.	Industrials	1.64	Japan
HONDA MOTOR CO., LTD.	Consumer Discretionary	1.62	Japan



#### What was the proportion of sustainability-related investments?

#### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 81.23% of its assets to companies that exhibited positive environmental and / or social characteristics and 48.70% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1A Sustainable: 48.70% #1A Sustainable: 48.70% Other Environmental: 32.43% Taxonomy-aligned: 0.00% Other Environmental: 32.43% Social: 16.27%

#### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

#### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Communication Services	Media & Entertainment	3.75
Communication Services	Telecommunication Services	5.27
Consumer Discretionary	Automobiles And Components	9.38
Consumer Discretionary	Consumer Durables And Apparel	4.56
Consumer Discretionary	Consumer Services	0.65
Consumer Discretionary	Retailing	2.82
Consumer Staples	Food And Staples Retailing	1.39
Consumer Staples	Food Beverage And Tobacco	2.88
Consumer Staples	Household And Personal Products	2.18
Energy	Energy	0.56
Financials	Banks	7.19
Financials	Diversified Financials	1.92
Financials	Insurance	3.01
Health Care	Health Care Equipment And Services	3.46
Health Care	Pharmaceuticals Biotech & Life Sciences	6.74
Industrials	Capital Goods	15.33
Industrials	Commercial & Professional Services	2.11
Industrials	Transportation	3.86
Information Technology	Semiconductors And Semiconductor Equip	3.07
Information Technology	Software And Services	2.76
Information Technology	Technology Hardware And Equipment	7.03
Materials	Materials	4.74
Real Estate	Real Estate	3.47
Utilities	Utilities	1.15

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the



# To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable

criteria include comprehensive safety and waste management rules. Enabling activities directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

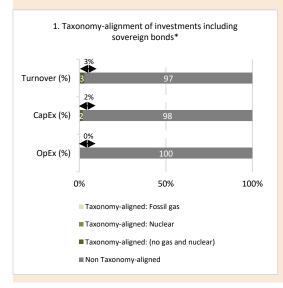
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

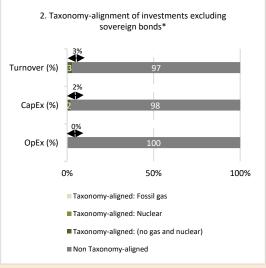
Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes
In fossil gas
In nuclear energy

No

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 5% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

The calculated share of Transitioning activities represents 1.38% and the calculated share of Enabling activities represents 0.43%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



# What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 32.43% of assets at the end of the reference period.



#### What was the share of socially sustainable investments?

The share of socially sustainable investments was 16.27% of assets at the end of the reference period.



# What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 18.77% of assets in "other" investments were comprised of companies that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



# What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in companies with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to companies that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all companies in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?
Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - US Research Enhanced Index Equity (ESG) UCITS ETF

Legal entity identifier: 549300NSUZYEVW9Y4071

#### Environmental and/or social characteristics





# To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (1 January 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 83.34% of investments with environmental and / or social characteristics and 69.00% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded companies that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out companies that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any companies during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such companies were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

#### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

#### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on a company's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, a company must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 83.34% of investments with environmental and / or social characteristics and 69.00% of sustainable investments.

In respect of the applied norms and values based exclusions, the Investment Manager utilised data to measure a company's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

#### ...and compared to previous periods?

Not applicable for 2022

#### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following during the Reference Period:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors, and (iii) provision of a decent working environment and culture

Contribution to such objectives may be understood by considering the actual % of assets allocated to sustainable investments for the Reference Period. The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 69.00% of its assets were sustainable investments.

# Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and

anti-bribery matters.

#### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 – 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

#### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable

energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose built screen.

#### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

#### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways required a company to be considered as an operational peer group leader to qualify as a sustainable investment. This required scoring against the indicator in the top 20% relative to peers.

#### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



# How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10 and 14 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 01/01/2022 - 31/12/2022

#### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
APPLE INC	Information Technology	6.00	United States
MICROSOFT CORPORATION	Information Technology	5.90	United States
ALPHABET INC	Communication Services	3.32	United States
AMAZON.COM, INC.	Consumer Discretionary	2.42	United States
BERKSHIRE HATHAWAY INCORPORATED	Financials	1.86	United States
EXXON MOBIL CORPORATION	Energy	1.81	United States
MASTERCARD, INCORPORATED DBA MASTERCARD, INCORPORATED	Information Technology	1.38	United States
ABBVIE INC.	Health Care	1.35	United States
ELI LILLY AND COMPANY	Health Care	1.27	United States
COCA-COLA COMPANY	Consumer Staples	1.21	United States
JOHNSON & JOHNSON	Health Care	1.02	United States
CHEVRON CORPORATION	Energy	1.00	United States
ACCENTURE PLC	Information Technology	0.95	Ireland
BRISTOL-MYERS SQUIBB COMPANY	Health Care	0.95	United States
CONOCOPHILLIPS	Energy	0.90	United States



#### What was the proportion of sustainability-related investments?

#### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 83.34% of its assets to companies that exhibited positive environmental and / or social characteristics and 69.00% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1 Aligned with E/S characteristics: #3.34% #1B Other E/S characteristics: 14.34% Taxonomy-aligned: 0.00% Other Environmental: 48.92% Social: 20.08%

#### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

#### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Communication Services	Media & Entertainment	6.56
Communication Services	Telecommunication Services	0.68
Consumer Discretionary	Automobiles And Components	1.21
Consumer Discretionary	Consumer Durables And Apparel	1.08
Consumer Discretionary	Consumer Services	2.42
Consumer Discretionary	Retailing	5.94
Consumer Staples	Food And Staples Retailing	1.00
Consumer Staples	Food Beverage And Tobacco	3.42
Consumer Staples	Household And Personal Products	2.15
Energy	Energy	5.24
Financials	Banks	3.29
Financials	Diversified Financials	6.08
Financials	Insurance	2.28
Health Care	Health Care Equipment And Services	6.48
Health Care	Pharmaceuticals Biotech & Life Sciences	9.31
Industrials	Capital Goods	4.91
Industrials	Commercial & Professional Services	0.35
Industrials	Transportation	2.51
Information Technology	Semiconductors And Semiconductor Equip	5.57
Information Technology	Software And Services	13.18
Information Technology	Technology Hardware And Equipment	7.67
Materials	Materials	2.45
Media	Conglomerate & Agency	0.01
Real Estate	Real Estate	2.68
Utilities	Utilities	3.20

To comply with the EU Taxonomy, the criteria for **fossil gas** include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For



# To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

nuclear energy, the criteria include comprehensive safety and waste management rules. Enabling activities directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.

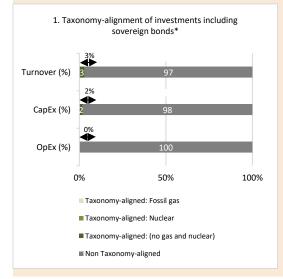
Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

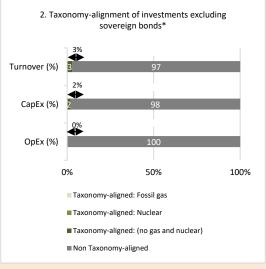
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?



The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 5% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

#### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 1.43%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



# What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 48.92% of assets at the end of the reference period.



#### What was the share of socially sustainable investments?

The share of socially sustainable investments was 20.08% of assets at the end of the reference period.



# What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 16.66% of assets in "other" investments were comprised of companies that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



# What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in companies with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to companies that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all companies in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?
Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF

Legal entity identifier: 549300GTL7CR1N46RB89

#### Environmental and/or social characteristics

Did this financial product have a sustainable investment objective?		
• • Yes	• No	
It made sustainable investments with an environmental objective: %	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of 43.73% of sustainable investments	
in economic activities that qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy	
in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	
	<b>X</b> with a social objective	
investments with a social objective: %	It promoted E/S characteristics, but did not make any sustainable investments	



# To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with a minimum asset allocation of 51% of investments having environmental and / or social characteristics and a minimum of 10% of investments being sustainable investments. This commitment was met throughout the reference period (1 March 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 78.83% of investments with environmental and / or social characteristics and 43.73% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account the following indicators: effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded issuers that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out issuers that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant issuers for the Reference Period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any issuers during the Reference Period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such issuers were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

#### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

#### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on an issuer's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and / or social characteristics, an issuer must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 78.83% of investments with environmental and / or social characteristics and 43.73% of sustainable investments.

In respect of the applied norms and values-based exclusions, the Investment Manager utilised data to measure an issuer's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

#### ...and compared to previous periods?

Not applicable for 2022

What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following or be linked to an environmental or social objective through the use of proceeds of the issue:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors and (iii) providing a decent working environment and culture.

Contribution to such objectives was determined by either: (i) products and services sustainability indicators, which may have included the percentage of revenue derived from providing products and / or services that contribute to the relevant sustainable objective, such as an issuer producing solar panels or clean energy technology that meets the Investment Manager's proprietary thresholds contributing to climate risk mitigation; (ii) the use of proceeds of the issue, if such use was designated as linked to a specific environmental or social objective, or (iii) was an operational peer group leader contributing to the relevant objective. Being a peer group leader is defined as scoring in the top 20% relative to the SubFund's benchmark based on certain operational sustainability indicators. For example, scoring in the top 20% relative to the Benchmark on total waste impact contributes to a transition to a circular economy. The test for supranational and sovereign issuers may consider the issuer's mission or contributions, as peer group leaders or improvers, to positive environmental and social objectives subject to certain criteria.

The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 43.73% of its assets were sustainable investments.

#### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those issuers which the Investment Manager considered the worst performing issuers, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those issuers demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those issuers that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

### \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively).

Indicators 10 - 14 relate to an issuer's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager also took into account PAI 16 in relation to Investee countries subject to social violations.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude issuers that may cause significant harm. It used a subset for engagement with certain issuers, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee issuers

Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and anti-bribery matters.

themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by issuers or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

#### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10, 14 and 16 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises, controversial weapons and investee countries subject to social violations. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee issuers in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager currently uses greenhouse gas intensity data (indicator 3), data in respect of non-renewable energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions. In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, the Investment Manager used a third-party representative proxy rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose-built screen.

#### Engagement

In addition to screening out certain issuers as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. A subset of the indicators was used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee issuers in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emission of air pollutants and number of days lost to injuries, accidents, fatalities or illness.

#### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways requires an issuer to be considered as an operational peer group leader to qualify as a sustainable investment. This requires scoring against the indicator in the top 20% relative to the Benchmark.

#### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



# How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10, 14 and 16 in relation to violations of the UN Global Compact and

controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the guestion directly above to demonstrate that an investment gualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee issuers based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 01/03/2022 - 31/12/2022

#### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
BANK OF AMERICA CORPORATION	Finance	3.73	United States
GOLDMAN SACHS GROUP, INC.	Finance	2.80	United States
MORGAN STANLEY	Finance	2.71	United States
CITIGROUP INC.	Finance	2.68	United States
HSBC HOLDINGS PLC.	Finance	2.20	United Kingdom
WELLS FARGO & COMPANY	Finance	2.18	United States
APPLE INC	Industrial	2.13	United States
COMCAST CORPORATION	Industrial	1.98	United States
MITSUBISHI UFJ FINANCIAL GROUP, INC.	Finance	1.64	Japan
ANHEUSER-BUSCH COS LLC / ANHEUSER-BUSCH INBEV WORLDWIDE INC	Industrial	1.49	United States
CHARTER COMMUNICATIONS OPERATING CAPITAL CORP	Industrial	1.47	United States
HCA INC.	Industrial	1.45	United States
HOME DEPOT INC	Industrial	1.41	United States
UNITEDHEALTH GROUP INCORPORATED	Finance	1.29	United States
SUMITOMO MITSUI FINANCIAL GROUP, INC.	Finance	1.28	Japan



Asset allocation

assets.

describes the share of

investments in specific

#### What was the proportion of sustainability-related investments?

#### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 78.83% of its assets to issuers that exhibited positive environmental and / or social characteristics and 43.73% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1 Aligned with E/S characteristics: 78.83% #18 Other E/S characteristics: 35.10% Taxonomy-aligned: 0.00% Other Environmental: 30.10% Social: 13.63%

#### JPMorgan ETFs (Ireland) ICAV - USD Corporate Bond Research Enhanced Index (ESG) UCITS ETF

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

#### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors - please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Finance	Banking	23.70
Finance	Brokerage	0.57
Finance	Finance Companies	0.85
Finance	Insurance	5.30
Finance	REITs	3.31
Industrial	Basic Industry	3.03
Industrial	Capital Goods	4.53
Industrial	Communications	8.91
Industrial	Consumer Cyclical	6.58
Industrial	Consumer Noncyclical	14.47
Industrial	Energy	6.90
Industrial	Industrial Other	0.51
Industrial	Technology	9.89
Industrial	Transportation	1.79
Utilities	Electric	7.68
Utilities	Natural Gas	1.27

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For **nuclear energy**, the criteria include comprehensive safety and waste management rules. **Enabling activities** directly enable other activities to make a substantial contribution to an environmental objective. Transitional activities are economic activities



## To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more issuers disclose their alignment, and the data becomes more available

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

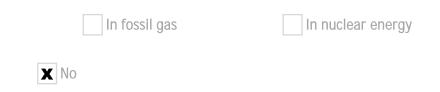
Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

Yes

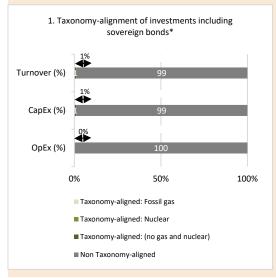
for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

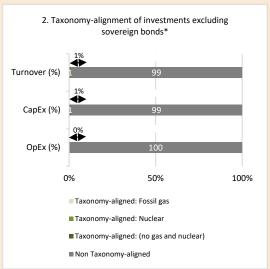
Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.



The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 2% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

<sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

#### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 0.05%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for



# What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 30.10% of assets at the end of the reference period.

environmentally sustainable economic activities under Regulation (EU) 2020/852.



#### What was the share of socially sustainable investments?

The share of socially sustainable investments was 13.63% of assets at the end of the reference period.



# What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 21.17% of assets in "other" investments were comprised of issuers that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM were not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



## What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 67% of assets in issuers with positive or improving E/S characteristics.
- The values and norms-based screening to implement full exclusions in relation issuers that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all issuers in the portfolio to follow good governance practices.
- The Sub-Fund also committed to investing at least 40% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



# How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?

Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

Not applicable

How did this financial product perform compared with the reference benchmark?  Not applicable
How did this financial product perform compared with the broad market index?  Not applicable

Template periodic disclosure for the financial products referred to in Article 8, paragraphs 1, 2 and 2a, of Regulation (EU) 2019/2088 and Article 6, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - USD Ultra-Short Income UCITS ETF

Legal entity identifier: 549300PSLK006UTVQ256

### Environmental and/or social characteristics

### Did this financial product have a sustainable investment objective? Yes X No It made sustainable investments It promoted Environmental/Social (E/S) characteristics and while it did with an environmental objective: not have as its objective a sustainable investment, it had a proportion of 50.58% of sustainable investments in economic activities that qualify with an environmental objective in as environmentally sustainable economic activities that qualify as under the EU Taxonomy environmentally sustainable under the EU Taxonomy in economic activities that do not with an environmental objective in X qualify as environmentally economic activities that do not qualify sustainable under the EU as environmentally sustainable under Taxonomy the EU Taxonomy X with a social objective It made sustainable It promoted E/S characteristics, but investments with a social did not make any sustainable investments objective: %



# To what extent were the environmental and/or social characteristics promoted by this financial product met?

The Sub-Fund set out to promote a broad range of environmental, social and governance characteristics through its investment inclusion criteria, specifically with an asset allocation of 51% of investments having environmental and / or social characteristics and 10% of investments being sustainable investments. This commitment was met throughout the reference period (21 February 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 76.16% of investments with environmental and / or social characteristics and 50.58% of sustainable investments.

These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria is underpinned by an ESG score assigned to all investments within the strategy to identify those that may be considered to have environmental and / or social characteristics and those that meet the thresholds for being considered as sustainable investment.

The ESG score takes into account related indicators, including (but not limited to) effective management of toxic emissions, waste, good environmental record and social characteristics such as effective sustainability disclosures, positive scores on labour relations and management of safety issues.

Through its exclusion criteria (which applied both full and partial exclusions); the Sub-Fund promoted certain norms

and values including supporting the protection of internationally proclaimed human rights. The Sub-Fund fully excluded issuers that are involved in the manufacture of controversial weapons and applied maximum revenue or production thresholds to others such as those that are involved in thermal coal and tobacco.

In relation to the consideration of Good Governance, all investments (excluding cash and derivatives) were screened to exclude known violators of good governance practices. In addition, for those investments considered to have environmental and/or social characteristics or qualifying sustainable investments, additional considerations applied. For these investments, the Sub-Fund incorporated a peer group comparison and screened out issuers that did not score in the top 80% relative to peers based on good governance indicators.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics. The extent to which the promoted environmental and social characteristics were met may be understood by considering the actual % of assets allocated to the relevant companies for the reference period exhibiting such characteristics.

In summary: the Sub-Fund met its pre-contractual committed minimums related to environmental and / or social characteristics and sustainable investments policy throughout the reference period. The Sub-Fund applied screens with the aim of excluding all potential investments prohibited under its exclusion policy throughout this period. The extent to which the norms and values promoted by the Sub-Fund were met is based on whether the Sub-Fund held any issuers during the reference period that would have been prohibited under the exclusion policy. The Investment Manager has no indication that such issuers were held. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape.

### Sustainability indicators

measure how the environmental or social characteristics promoted by the financial product are attained.

### How did the sustainability indicators perform?

A combination of the Investment Manager's proprietary ESG scoring methodology: consisting of the Investment Manager's proprietary ESG score, and / or third-party data was used as part of the inclusion criteria to measure the attainment of the environmental and / or social characteristics that the Sub-Fund promotes.

The methodology was based on an issuer's management of relevant environmental or social issues such as its toxic emissions, waste management, labour relations and safety issues, diversity / independence of the board of directors and data privacy. To be included in the 51% of assets considered to be promoting environmental and/or social characteristics, an issuer must score in the top 80% relative to its peers on either its environmental score or social score and meet the good governance conditions outlined above.

At the end of the reference period, the Sub-Fund held 76.16% of investments with environmental and / or social characteristics and 50.58% of sustainable investments.

In respect of the applied norms and values-based exclusions, the Investment Manager utilised data to measure an issuer's participation in the relevant activities. Screening on that data resulted in full exclusions on certain potential investments and partial exclusions based on maximum percentage thresholds on revenue or production as envisaged through the exclusions policy. Throughout the reference period, and at no point, were the exclusion rules breached. A subset of the "Adverse Sustainability Indicators" as set out in the EU SFDR Regulatory Technical Standards was also incorporated in the screening.

The Sub-Fund had no specific allocation targets in favour of either environmental or social characteristics and therefore the performance of the indicators in respect of specific environmental or social characteristics is not set out here.

### ...and compared to previous periods?

Not applicable for 2022

### What were the objectives of the sustainable investments that the financial product partially made and how did the sustainable investment contribute to such objectives?

The objectives of the sustainable investments that the Sub-Fund partially made was comprised of any individual or combination of the following or be linked to an environmental or social objective through the use of proceeds of the issue:

Environmental Objectives: (i) climate risk mitigation, (ii) transition to a circular economy

Social Objectives: (i) inclusive and sustainable communities - increased female executive representation, (ii) inclusive and sustainable communities - increased female representation on boards of directors and (iii) providing a decent working environment and culture.

Contribution to such objectives was determined by either (i) products and services sustainability indicators, which may include the percentage of revenue derived from providing products and / or services that contribute to the relevant sustainable objective, such as company producing solar panels or clean energy technology that meets the Investment Manager's proprietary thresholds contributing to climate risk mitigation; or (ii) being an operational peer group leader contributing to the relevant objective. Being a peer group leader is defined as scoring in the top 20% relative to the Sub-Fund's benchmark based on certain operational sustainability indicators. For example, scoring in the top 20% relative to the Benchmark on total waste impact contributes to a transition to a circular economy.

The Sub-Fund was required to invest 10% in sustainable investments. At no time during the period did the Sub-Fund hold sustainable investments below its committed minimum. At the end of the reference period, 50.58% of its assets were sustainable investments.

# Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human

rights, anti-corruption and

anti-bribery matters.

### How did the sustainable investments that the financial product partially made not cause significant harm to any environmental or social sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third party service providers.

# \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively).

Indicators 10 - 14 relate to an issuer's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager also took into account PAI 16 in relation to Investee countries subject to social violations.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude issuers that may cause significant harm. It used a subset for engagement with certain issuers, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10, 14 and 16 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises, controversial weapons and investee countries subject to social violations. The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee issuers in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager currently uses greenhouse gas intensity data (indicator 3), data in respect of non-renewable energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions. In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, the Investment Manager used a third-party representative proxy rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose-built screen.

### Engagement

In addition to screening out certain issuers as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. A subset of the indicators was used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee issuers in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emission of air pollutants and number of days lost to injuries, accidents, fatalities or illness.

### Indicators of sustainability

The Investment Manager used indicators 3 and 13 in relation to GHG Intensity and board gender diversity as indicators of sustainability to assist in qualifying an investment as a sustainable investment. One of the pathways requires an issuer to be considered as an operational peer group leader to qualify as a sustainable investment. This requires scoring against the indicator in the top 20% relative to the Benchmark.

### \_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

Norms based portfolio exclusions as described above under "To what extent were the environmental and / or social characteristics promoted by this financial product met?" were applied to seek alignment with these guidelines and principles. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.

The EU Taxonomy sets out a "do not significant harm" principle by which Taxonomy-aligned investments should not significantly harm EU Taxonomy objectives and is accompanied by specific Union criteria.

The "do no significant harm" principle applies only to those investments underlying the financial product that take into account the Union criteria for environmentally sustainable economic activities. The investments underlying the remaining portion of this financial product do not take into account the Union criteria for environmentally sustainable economic activities.

Any other sustainable investments must also not significantly harm any environmental or social objectives.



# How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered select principal adverse impacts on sustainability factors through values and norms-based screening to implement exclusions. Indicators 10, 14 and 16 in relation to violations of the UN Global Compact and controversial weapons from the EU SFDR Regulatory Technical Standards were used in respect of such screening. The Sub-Fund also used certain of the indicators as part of the "Do No Significant Harm" screen as detailed in the response to the question directly above to demonstrate that an investment qualified as a sustainable investment.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 21/02/2022 - 31/12/2022

### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
TORONTO-DOMINION BANK/NY	Finance	3.46	United States
BANK OF MONTREAL	Finance	2.53	Canada
WESTPAC BANKING CORP	Finance	2.27	Australia
QATAR NATIONAL BANK (Q.P.S.C.)	Non-US Govt Related Credit	1.78	Qatar
ROYAL BANK OF CANADA - NY	Finance	1.78	United States
OCP 2016-11A A1AR	CLO	1.74	Cayman Islands
DNB BANK ASA	Finance	1.71	Norway
COOPERATIEVE RABOBANK U.A.	Finance	1.64	Netherlands
NATIXIS - NEW YORK BRANCH	Finance	1.63	United States
CANADIAN IMPERIAL BANK	Finance	1.61	Canada
NORINCHUKIN BANK (NY)	Finance	1.56	United States
KOREA EXCHANGE BANK	Finance	1.53	Korea (Republic of)
BANK OF NOVA SCOTIA HOUS	Finance	1.51	Canada
DRSLF 2013-30A AR	CLO	1.48	Cayman Islands
AUSTRALIA AND NEW ZEALAND BANKIN	Finance	1.44	Australia



### What was the proportion of sustainability-related investments?

### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 76.16% of its assets to issuers that exhibited positive environmental and / or social characteristics and 50.58% of assets to sustainable investments. The Sub-Fund did not commit to investing any proportion of assets specifically in securities exhibiting positive environmental characteristics or specifically in positive social characteristics nor is there any commitment to any specific individual or combination of environmental or social objectives.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

# #1A Sustainable: 50.58% #1A Sustainable: 50.58% Other Environmental: 28.71% #2 Other: 23.84% #2 Other: 23.84%

### Asset allocation

describes the share of investments in specific assets.

- **#1 Aligned with E/S characteristics** includes the investments of the financial product used to attain the environmental or social characteristics promoted by the financial product.
- **#2 Other** includes the remaining investments of the financial product which are neither aligned with the environmental or social characteristics, nor are qualified as sustainable investments.

The category **#1 Aligned with E/S characteristics** covers:

- The sub-category #1A Sustainable covers environmentally and socially sustainable investments.
- The sub-category **#1B Other E/S characteristics** covers investments aligned with the environmental or social characteristics that do not qualify as sustainable investments.

### In which economic sectors were the investments made?

Although the Sub-Fund promoted certain environmental and social characteristics through its inclusion and exclusion criteria, it may have invested across a broad range of sectors - please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee issuers. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
CLO	ABS CLO	8.49
Finance	Banking	57.45
Finance	Brokerage	0.02
Finance	Finance Companies	0.73
Finance	Insurance	4.69
Industrial	Basic Industry	0.66
Industrial	Capital Goods	0.77
Industrial	Communications	2.99
Industrial	Consumer Cyclical	5.94
Industrial	Consumer Noncyclical	3.21
Industrial	Energy	1.22
Industrial	Industrial Other	0.43
Industrial	Technology	1.79
Industrial	Transportation	0.96
Non-US Govt Related Credit	Foreign Agencies	1.92
US Treasury	US Treasury Bonds/Bills	0.09
Utilities	Electric	2.82
Utilities	Natural Gas	0.60

To comply with the EU Taxonomy, the criteria for fossil gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the criteria include comprehensive safety and waste management rules. **Enabling activities** directly enable other activities to make a substantial

contribution to an



# To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more issuers disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy¹?

environmental objective.

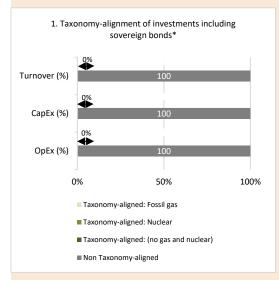
Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

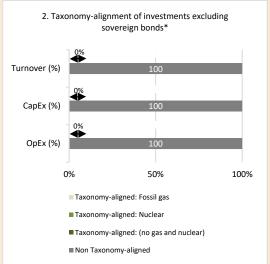
Taxonomy-aligned activities are expressed as a share of:

- **turnover** reflects the "greenness" of investee company today.
- capital expenditure (Capex) shows the green investments made by investee companies, relevant to a transition to a green economy.
- operational expenditure (Opex) reflects the green operational activities of investee companies.



The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 0% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 0.16%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

<sup>&</sup>lt;sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



# What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 28.71% of assets at the end of the reference period.



### What was the share of socially sustainable investments?

The share of socially sustainable investments was 21.87% of assets at the end of the reference period.



# What investments were included under "other", what was their purpose and were there any minimum environmental or social safeguards?

The 23.84% of assets in "other" investments were comprised of issuers that did not meet the criteria described in response to above question entitled, "How did the sustainability indicators perform?" to qualify as exhibiting positive environmental or social characteristics. They are investments for diversification purposes. Ancillary cash, cash equivalents, money market funds and derivatives for EPM were not included in the % of assets included in the asset allocation diagram above, including under "other". These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

All investments, including "other" investments were subject to the following ESG Minimum Safeguards / principle:

- The minimum safeguards as outlined by Article 18 of the EU Taxonomy Regulation (including alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights), as implemented by the Investment Manager.
- Application of good governance practices (these include sound management structures, employee relations, remuneration of staff and tax compliance), as implemented by the Investment Manager.
- Compliance with the Do No Significant Harm principle as prescribed under the definition of sustainable investment in EU SFDR.



# What actions have been taken to meet the environmental and/or social characteristics during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain each of the environmental or social characteristics:

- The requirement to invest at least 51% of assets in issuers with positive environmental and / or social characteristics.
- The values and norms based screening to implement full exclusions in relation to issuers that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all issuers in the portfolio to follow good governance practices.

The Sub- Fund also committed to investing at least 10% of assets in sustainable investments.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



# How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the environmental or social characteristics that they promote. How does the reference benchmark differ from a broad market index?

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the environmental or social characteristics promoted?

- How did this financial product perform compared with the reference benchmark?
  Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

Template periodic disclosure for the financial products referred to in Article 9, paragraphs 1 to 4a, of Regulation (EU) 2019/2088 and Article 5, first paragraph, of Regulation (EU) 2020/852

### Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

# Product Name: JPMorgan ETFs (Ireland) ICAV - JPM Carbon Transition China Equity (CTB) UCITS ETF

Legal entity identifier: 549300U751FDGMH6UB43

### Sustainable investment objective

Did this financial product have a sustainable investment objective?			
•• X Yes	• No		
It made sustainable investments with an environmental objective: 97.00%	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of _% of sustainable investments		
in economic activities that qualify as environmentally sustainable under the EU Taxonomy  in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy		
It made sustainable investments with a social objective: 0.00%	with a social objective  It promoted E/S characteristics, but did not make any sustainable investments		



# To what extent was the sustainable investment objective of this financial product met?

The Sub-Fund's sustainable investment objective was to provide lower carbon emission exposure relative to the Solactive GBS China Large & Mid Cap USD Index (the "Investable Universe") with a view to achieving the long-term global warming objectives of the Paris Agreement. The Sub-Fund aimed to achieve this objective by tracking the performance of the Solactive J.P.Morgan Asset Management China Carbon Transition Index (the "Index") as closely as possible. The Index aims to meet the requirements for EU Climate Transition Benchmarks as defined in the EU Climate Benchmarks Regulation and provide lower carbon emission exposure relative to the Investable Universe.

The Index is designed to capture the performance of companies which have been identified through its rules-based process as best positioned to benefit from a transition to a low carbon economy by effectively managing their emissions, resources and climate-related risks whilst achieving a reduction of the greenhouse gas intensity of the Index of at least 7% on average per annum and an overall reduction of the greenhouse gas intensity of the Index compared to the Investable Universe of at least 30%.

The Sub-Fund tracked to the index with an error rate of less than 1% throughout the reference period (6 December 2022 - 31 December 2022). Further details can be found in the annual report by searching under 'tracking error' in the web link below.

https://am.jpmorgan.com/ie/en/asset-management/per/products/jpm-carbon-transition-china-equity-ctb-ucits-etf-usd-acc-ie000g3a6rn7#/documents

The index also met its objectives - more information is available in the Index Provider's Factsheet:

https://www.solactive.com/wp-content/uploads/solactiveip/en/Factsheet\_DE000SL0GMR0

The Sub-Fund was also required to invest a minimum of 80% in assets qualified as sustainable investments. This commitment was met throughout the reference period. At the end of the reference period, the Sub-Fund held 97.00% of sustainable investments. These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria was underpinned by an ESG score assigned to all investments within the strategy to identify those that met the thresholds for being considered as sustainable investments.

The primary sustainability indicator used to measure the attainment of the sustainable investment objective was the overall weighted carbon intensity of the portfolio, as defined by its Weighted-Average Carbon Intensity ("WACI"). This was the weighted sum of the Enterprise Value Including Cash adjusted Green House Gas emissions of the underlying constituents of the portfolio.

- Carbon Transition Score: this metric assesses a company's alignment to the move towards a lower carbon
  economy by aggregating a broad range of underlying metrics covering emissions, resource management and
  risk management; and
- Company Level Carbon intensity, based on Scope 1, 2 and 3 GHG emissions.

In order to qualify as a sustainable investment a security must meet a predefined threshold in relation to the aggregate score relative to the Investable Universe, in relation to either of the two indicators referenced directly above.

In summary: the Sub-Fund met its pre-contractual committed minimums related to its sustainable investments policy throughout the reference period. The Sub-Fund closely tracked the index, and applied screens excluding potential investments prohibited under its exclusion policy.

The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

Sustainability indicators measure how the sustainable objectives of this financial product are attained.

### How did the sustainability indicators perform?

The index tracked by the fund met its sustainable investment objective by achieving a reduction of the Weighted-Average Carbon Intensity ("WACI") of the Index of at least 7% on average per annum and an overall reduction of the Weighted-Average Carbon Intensity of the Index compared to the Investable Universe of at least 30%, and the Sub-Fund tracked this index with an error rate of less than 1%. In addition, at the end of the reference period, the Sub-Fund held 97.00% of sustainable investments using the above criteria. As outlined above, at an individual asset level, the primary sustainability indicators applied to assess whether an asset qualified as a sustainable investment were:

- Carbon Transition Score: this metric assesses a company's alignment to the move towards a lower carbon
  economy by aggregating a broad range of underlying metrics covering emissions, resource management
  and risk management; and
- Company Level Carbon intensity, based on Scope 1, 2 and 3 GHG emissions.

### ...and compared to previous periods?

Not applicable for 2022

### How did the sustainable investments not cause significant harm to any sustainable investment objective?

All companies in the index were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments. Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and anti-bribery matters.

# \_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 - 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons.

The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose-built screen.

### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

\_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

The methodology applied a screen to align with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights as provided for under the Minimum Safeguards in the EU Taxonomy Regulation. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.



# How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered principal adverse impacts on sustainability factors through values and norms based screening to implement exclusions and active engagement with select investee companies.

The Sub-Fund used a comprehensive range of indicators from Annex 1 of the EU SFDR Regulatory Technical Standards in respect of such screening. It used indicators 1-14 in table 1 of this Annex which covers adverse sustainability impacts such as violations of the UN Global Compact, controversial weapons, GHG intensity, share of non renewable energy consumption and production, energy consumption and hazardous waste. It also considered select indicators in tables 2 and 3.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



### What were the top investments of this financial product?

The list includes the
investments constituting
the greatest proportion
of investments of the
financial product during
the reference period
which is:
06/12/2022 - 31/12/2022

Largest Investments	Sector	% Assets	Country
TENCENT HOLDINGS LIMITED	Technology	13.61	Cayman Islands
ALIBABA GROUP HOLDING LIMITED	Industrial Other	8.46	Cayman Islands
MEITUAN	Technology	4.52	Cayman Islands
CHINA CONSTRUCTION BANK CORPORATION	Banking	3.55	China
JD.COM, INC.	Industrial Other	3.13	Cayman Islands
Pinduoduo Inc	Industrial Other	2.74	Cayman Islands
PING AN INSURANCE (GROUP) COMPANY OF CHINA, LTD.	Insurance	2.70	China
INDUSTRIAL AND COMMERCIAL BANK OF CHINA LIMITED	Banking	2.56	China
BANK OF CHINA LIMITED	Banking	2.12	China
BAIDU, INC	Communications	2.05	Cayman Islands
BYD COMPANY LIMITED	Consumer Cyclical	2.01	China
LI NING COMPANY LIMITED	Consumer Cyclical	1.56	Cayman Islands
TRIP.COM GROUP LIMITED	Industrial Other	1.43	Cayman Islands



### What was the proportion of sustainability-related investments?

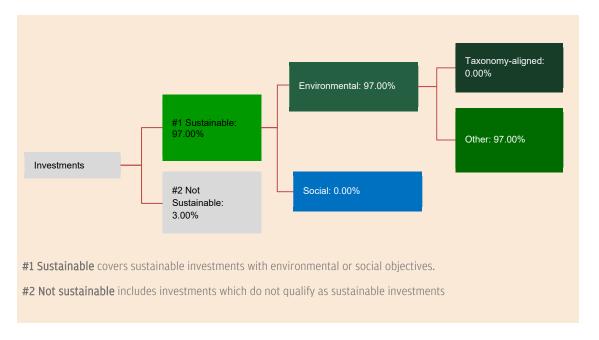
### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 97.00% of assets to sustainable investments.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.

### Asset allocation

describes the share of investments in specific assets.



### In which economic sectors were the investments made?

Although the Sub-Fund had a Sustainable Objective, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Banking	Banking	13.50
Basic Industry	Chemicals	0.96
Basic Industry	Metals & Mining	2.22
Capital Goods	Building Materials	0.07
Capital Goods	Construction Machinery	2.92
Capital Goods	Diversified Manufacturing	1.45
Capital Goods	Environmental	0.10
Communications	Wireless	2.89
Communications	Wirelines	0.57
Consumer Cyclical	Automotive	5.48
Consumer Cyclical	Consumer Cyc Services	0.56
Consumer Cyclical	Home Construction	2.84
Consumer Cyclical	Retailers	3.68
Consumer Cyclical	Textiles	0.34
Consumer Noncyclical	Consumer Products	1.24
Consumer Noncyclical	Food/Beverage	4.26
Consumer Noncyclical	Healthcare	2.35
Consumer Noncyclical	Pharmaceuticals	2.97
Electric	Electric	2.08
Energy	Independent	2.20
Energy	Integrated	1.32
Energy	Oil Field Services	0.63
Financial Other	Financial Other	0.32
Industrial Other	Industrial Other	16.36
Insurance	Health Insurance	2.70
Insurance	Life	1.09
Insurance	P&C	0.46
Natural Gas	Natural Gas	1.35
Technology	Technology	21.76
Transportation	Transportation Services	0.86
Utility - Other	Utility - Other	0.21

To comply with the EU Taxonomy, the criteria for **fossil** gas include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the criteria include comprehensive safety and waste management rules. **Enabling activities** directly enable other activities to make a substantial contribution to an environmental

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

objective.

Taxonomyaligned activities are expressed as a share of:

- turnover reflecting the share of revenue from green activities of investee companies
- capital expenditure (CapEx) showing the green investments made by investee companies, e.g. for a transition to a green economy.
- operational expenditure (OpEx) reflecting green operational activities of investee companies.



# To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

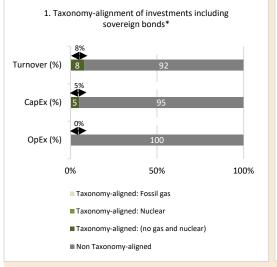
Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

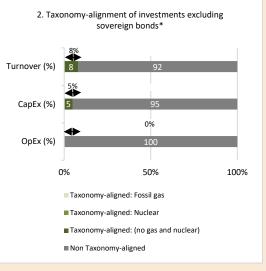
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

Did the financial product invest in fossil gas and/or nuclear energy related activities complying with the EU Taxonomy!?

Yes	
In fossil gas	In nuclear energ
<b>X</b> No	

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.





This graph represents 13% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

<sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have sustainable investments.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 4.51%, at the end of the reference period.

### How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



# What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 97.00% of assets at the end of the reference period.



### What was the share of socially sustainable investments?

The share of socially sustainable investments was 0.00% of assets at the end of the reference period.



# What investments were included under "not sustainable", what was their purpose and were there any minimum environmental or social safeguards?

The 3.00% of investments in this category were comprised of companies that did not meet a minimum aggregate score in relation to a threshold set by the Investment Manager. The scoring was based on the Index inclusion methodology as set out in the answer above to the question "How did the Sustainability Indicators Perform".

This category may also include investments required to facilitate other characteristics or binding constraints in relation to the Index , such as minimum exposures to high impact sectors.



# What actions have been taken to attain the sustainable investment objective during the reference period?

The following binding elements of the investment strategy were applied during the reference period to attain the sustainable objective:

- The requirement for the Sub-Fund to seek to replicate the Index by holding all of the Index Securities in a similar proportion to their weighting in the Index. (The Index methodology is binding in its design to capture the performance of companies which have been identified through its rules-based process as best positioned to benefit from a transition to a low carbon economy by effectively managing their emissions, resources and climate-related risks whilst achieving a reduction of the greenhouse gas intensity of the Index of at least 7% on average per annum and an overall reduction of the greenhouse gas intensity of the Index compared to the Investable Universe of at least 30%)
- The requirement for the Index to meet the requirements for EU Climate Transition Benchmarks as defined in the EU Climate Benchmarks Regulation.
- The requirement that all companies in the portfolio follow good governance practices.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



# How did this financial product perform compared to the reference sustainable benchmark?

The Sub-Fund sought to achieve returns corresponding to those of its Reference Sustainable Benchmark. The sustainability indicators also performed in line with the index. Further details on the performance of the Sub-Fund and the index can be found on the website: www.jpmorganassetmanagement.lu by searching for the Sub-Fund and clicking on the Performance and Fees section.

Details on the Index, including its methodology, components and performance, are available at https://www.solactive.com/indices/?index=DE000SL0GMR0 and further details on the Investable Universe, including its components and performance, are available at https://www.solactive.com/indices/?se=1&index=DE000SLA4W11

Reference benchmarks are indexes to measure whether the financial product attains the sustainable objective.

### How does the reference benchmark differ from a broad market index?

The Index applied this rules-based non-financial analysis process to select components from a broad market index, the Solactive GBS China Large & Mid Cap Index. The Index is designed to capture the performance of companies which have been identified through its rules-based process as best positioned to benefit from a transition to a low carbon economy by effectively managing their emissions, resources and climate-related risks.

### How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the sustainable investment objective?

The Sub-Fund's sustainable investment objective was to provide lower carbon emission exposure relative to the Solcative GBS China Large & Mid Cap USD Index (the "Investable Universe"). The Sub-Fund aimed to achieve this objective by tracking the performance of the Solactive J.P.Morgan Asset Management Carbon Transition Global Equity Index (the "Index") as closely as possible. The Index is designed to capture the performance of companies which have been identified through its rules-based process as best positioned to benefit from a transition to a low carbon economy by effectively managing their emissions, resources and climate-related risks whilst achieving a reduction of the greenhouse gas intensity of the Index of at least 7% on average per annum and an overall reduction of the greenhouse gas intensity of the Index compared to the Investable Universe of at least 30%. The index met these objectives, as confirmed by the index provider. More information is available in the Index Provider's Factsheet:

https://www.solactive.com/wp-content/uploads/solactiveip/en/Factsheet DE000SL0GMR0.pdf

The Sub-Fund delivered a reduction in weighted average carbon intensity vs. Solactive J.P.Morgan Asset Management China Carbon Transition Index of 39% which is consistent with the index.

The relative performance of the Sub-Fund to the index, can been seen by the answer to the question directly below.

The Sub-Fund was also required to invest 80% in assets qualified as sustainable. At the end of the reference period, 97.00% of investments were classified as sustainable.

### How did this financial product perform compared with the reference benchmark?

The performance of the Sub-Fund is not yet available due to launching in December 2022.

### How did this financial product perform compared with the broad market index?

The performance of the Sub-Fund is not yet available due to launching in December 2022.

Template periodic disclosure for the financial products referred to in Article 9, paragraphs 1 to 4a, of Regulation (EU) 2019/2088 and Article 5, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

# Product name: JPMorgan ETFs (Ireland) ICAV - Carbon Transition Global Equity (CTB) UCITS ETF

Legal entity identifier: 549300315LCWQJ0PPF15

### Sustainable investment objective

Did this financial product have a sustainable investment objective?			
•• X Yes	• No		
It made sustainable investments with an environmental objective: 89.49%	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of _% of sustainable investments		
in economic activities that qualify as environmentally sustainable under the EU Taxonomy  in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy		
It made sustainable investments with a social objective: 0.00%	with a social objective  It promoted E/S characteristics, but did not make any sustainable investments		



# To what extent was the sustainable investment objective of this financial product met?

The Sub-Fund's sustainable investment objective was to provide lower carbon emission exposure relative to the MSCI World Index (the "Investable Universe") with a view to achieving the long-term global warming objectives of the Paris Agreement. The Sub-Fund aimed to achieve this objective by tracking the performance of the Solactive J.P.Morgan Asset Management Carbon Transition Global Equity Index (the "Index") as closely as possible. The Index aims to meet the requirements for EU Climate Transition Benchmarks as defined in the EU Climate Benchmarks Regulation and provide lower carbon emission exposure relative to the Investable Universe.

The Index is designed to capture the performance of companies which have been identified through its rules-based process as best positioned to benefit from a transition to a low carbon economy by effectively managing their emissions, resources and climate-related risks whilst achieving a reduction of the greenhouse gas intensity of the Index of at least 7% on average per annum and an overall reduction of the greenhouse gas intensity of the Index compared to the Investable Universe of at least 30%.

The Sub-Fund tracked to the index with an error rate of less than 1% throughout the reference period (30 September 2022 - 31 December 2022). Further details can be found in the annual report by searching under 'tracking error' in the web link below.

https://am.jpmorgan.com/gb/en/asset-management/adv/products/jpm-carbon-transition-global-equity-ctb-ucits-etf-usd-acc-ie00bmdwvz92#/documents

The index also met its objectives - more information is available in the Index Provider's Factsheet:

https://www.solactive.com/wp-content/uploads/solactiveip/en/Factsheet\_DE000SL0BE72.pdf

The Sub-Fund was also required to invest a minimum of 80% in assets qualified as sustainable investments. This commitment was met throughout the reference period. At the end of the reference period, the Sub-Fund held 89.49% of sustainable investments. These investments were determined by the application of an inclusion and exclusion criteria which applied at both an asset and product level. The inclusion criteria was underpinned by an ESG score assigned to all investments within the strategy to identify those that met the thresholds for being considered as sustainable investments.

The primary sustainability indicator used to measure the attainment of the sustainable investment objective was the overall weighted carbon intensity of the portfolio, as defined by its Weighted-Average Carbon Intensity ("WACI"). This was the weighted sum of the Enterprise Value Including Cash adjusted Green House Gas emissions of the underlying constituents of the portfolio.

- Carbon Transition Score: this metric assesses a company's alignment to the move towards a lower carbon economy by aggregating a broad range of underlying metrics covering emissions, resource management and risk management; and
- Company Level Carbon intensity, based on Scope 1, 2 and 3 GHG emissions.

In order to qualify as a sustainable investment a security must meet a predefined threshold in relation to the aggregate score relative to the Investable Universe, in relation to either of the two indicators referenced directly above.

In summary: the Sub-Fund met its pre-contractual committed minimums related to its sustainable investments policy throughout the reference period. The Sub-Fund closely tracked the index, and applied screens excluding potential investments prohibited under its exclusion policy.

The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

Sustainability indicators measure how the sustainable objectives of this financial product are attained.

### How did the sustainability indicators perform?

The index tracked by the fund met its sustainable investment objective by achieving a reduction of the Weighted-Average Carbon Intensity ("WACI") of the Index of at least 7% on average per annum and an overall reduction of the Weighted-Average Carbon Intensity of the Index compared to the Investable Universe of at least 30%, and the Sub-Fund tracked this index with an error rate of less than 1%. In addition, at the end of the reference period, the Sub-Fund held 89.49% of sustainable investments using the above criteria. As outlined above, at an individual asset level, the primary sustainability indicators applied to assess whether an asset qualified as a sustainable investment were:

- Carbon Transition Score: this metric assesses a company's alignment to the move towards a lower carbon
  economy by aggregating a broad range of underlying metrics covering emissions, resource management
  and risk management; and
- Company Level Carbon intensity, based on Scope 1, 2 and 3 GHG emissions.

### ...and compared to previous periods?

Not applicable for 2022

### How did the sustainable investments not cause significant harm to any sustainable investment objective?

All companies in the index were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those companies which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment

Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and anti-bribery matters.

Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

# \_\_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 - 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons.

The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose-built screen.

### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants

Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

The methodology applied a screen to align with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights as provided for under the Minimum Safeguards in the EU Taxonomy Regulation. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.



### How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered principal adverse impacts on sustainability factors through values and norms based screening to implement exclusions and active engagement with select investee companies.

The Sub-Fund used a comprehensive range of indicators from Annex 1 of the EU SFDR Regulatory Technical Standards in respect of such screening. It used indicators 1-14 in table 1 of this Annex which covers adverse sustainability impacts such as violations of the UN Global Compact, controversial weapons, GHG intensity, share of non renewable energy consumption and production, energy consumption and hazardous waste. It also considered select indicators in tables 2 and 3.

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



### What were the top investments of this financial product?

The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is: 30/09/2022 - 31/12/2022

Largest Investments	Sector	% Assets	Country
APPLE INC	Technology	4.63	United States
MICROSOFT CORPORATION	Technology	3.83	United States
ALPHABET INC	Communications	2.47	United States
JOHNSON & JOHNSON	Consumer Noncyclical	1.38	United States
AMAZON.COM, INC.	Industrial Other	1.32	United States
ELI LILLY AND COMPANY	Consumer Noncyclical	1.11	United States
MERCK & CO INC.	Consumer Noncyclical	1.05	United States
ABBVIE INC.	Consumer Noncyclical	1.04	United States
NVIDIA CORPORATION	Electric	1.01	United States
PEPSICO, INC	Consumer Noncyclical	0.99	United States
NESTLE SA	Consumer Noncyclical	0.93	Switzerland
LVMH MOET HENNESSY LOUIS VUITTON SE	Consumer Cyclical	0.88	France
ASTRAZENECA PLC	Consumer Noncyclical	0.85	United Kingdom
NEXTERA ENERGY, INC.	Electric	0.85	United States
TESLA, INC.	Consumer Cyclical	0.80	United States

# 7

### What was the proportion of sustainability-related investments?

### Asset allocation

describes the share of investments in specific assets.

### What was the asset allocation?

At the end of the reference period, the Sub-Fund allocated 89.49% of assets to sustainable investments.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM are not included in the % of assets set out in the table below. These holdings fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.



### In which economic sectors were the investments made?

Although the Sub-Fund had a Sustainable Objective, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Banking	Banking	6.11
Basic Industry	Chemicals	2.59
Basic Industry	Metals & Mining	1.05
Basic Industry	Paper	0.15
Capital Goods	Aerospace/Defense	0.66
Capital Goods	Building Materials	1.52
Capital Goods	Construction Machinery	1.50
Capital Goods	Diversified Manufacturing	1.18
Capital Goods	Environmental	0.54
Capital Goods	Packaging	0.18
Communications	Cable Satellite	0.08
Communications	Media Entertainment	0.58
Communications	Wireless	2.70
Communications	Wirelines	2.93
Consumer Cyclical	Automotive	2.03
Consumer Cyclical	Consumer Cyc Services	1.71
Consumer Cyclical	Gaming	0.21
Consumer Cyclical	Home Construction	0.37
Consumer Cyclical	Leisure	0.04
Consumer Cyclical	Restaurants	1.66
Consumer Cyclical	Retailers	1.05
Consumer Cyclical	Textiles	2.09
Consumer Noncyclical	Consumer Products	1.78

Consumer Noncyclical	Food/Beverage	4.95
Consumer Noncyclical	Healthcare	3.43
Consumer Noncyclical	Pharmaceuticals	11.68
Consumer Noncyclical	Supermarkets	0.71
Electric	Electric	10.32
Energy	Independent	0.01
Energy	Integrated	1.73
Energy	Oil Field Services	2.31
Energy	Refining	0.20
Financial Other	Financial Other	3.83
Industrial Other	Industrial Other	2.09
Insurance	Health Insurance	2.70
Insurance	Life	1.10
Insurance	P&C	1.90
Natural Gas	Natural Gas	1.73
REITS	REITS - Other	2.27
Technology	Technology	12.77
Transportation	Airlines	0.10
Transportation	Railroads	2.14
Transportation	Transportation Services	1.02
Utility - Other	Utility - Other	0.16

Enabling activities directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomyaligned activities are expressed as a share of:

- turnover reflecting the share of revenue from green activities of investee companies



# To what extent were the sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

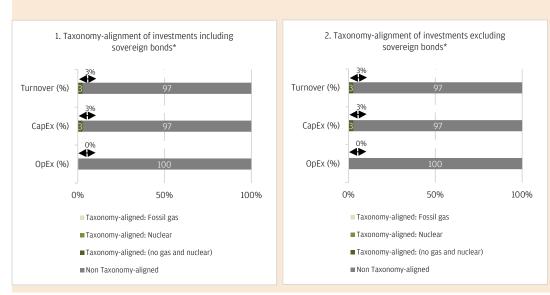
The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

Did the financial product invest in fossil gas and/or nuclear energy related
activities complying with the EU Taxonomy¹?

Yes	
In fossil gas	In nuclear energy
<b>X</b> No	

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.

- capital expenditure (CapEx) showing the green investments made by investee companies, e.g. for a transition to a green economy.
- operational expenditure (OpEx) reflecting green operational activities of investee companies.



This graph represents 6% of the total investment.

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

<sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have sustainable investments.

The calculated share of Transitioning activities represents 0.01% and the calculated share of Enabling activities represents 0.93%, at the end of the reference period.

How did the percentage of investments that were aligned with the EU Taxonomy compare with previous reference periods?

Not applicable



# What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 89.49% of assets at the end of the reference period.



### What was the share of socially sustainable investments?

The share of socially sustainable investments was 0.00% of assets at the end of the reference period.



# What investments were included under "not sustainable", what was their purpose and were there any minimum environmental or social safeguards?

The 10.51% of investments in this category were comprised of companies that did not meet a minimum aggregate score in relation to a threshold set by the Investment Manager. The scoring was based on the Index inclusion methodology as set out in the answer above to the question "How did the Sustainability Indicators Perform".

This category may also include investments required to facilitate other characteristics or binding constraints in relation to the Index , such as minimum exposures to high impact sectors.

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



# What actions have been taken to attain the sustainable investment objective during the reference period?

The following binding elements of the investment strategy were applied during the reference period to attain the sustainable objective:

- The requirement for the Sub-Fund to seek to replicate the Index by holding all of the Index Securities in a similar proportion to their weighting in the Index. (The Index methodology is binding in its design to capture the performance of companies which have been identified through its rules-based process as best positioned to benefit from a transition to a low carbon economy by effectively managing their emissions, resources and climate-related risks whilst achieving a reduction of the greenhouse gas intensity of the Index of at least 7% on average per annum and an overall reduction of the greenhouse gas intensity of the Index compared to the Investable Universe of at least 30%)
- The requirement for the Index to meet the requirements for EU Climate Transition Benchmarks as defined in the EU Climate Benchmarks Regulation.
- The requirement that all companies in the portfolio follow good governance practices.

Further information on engagement is available in the answer to the question "How were the indicators for adverse impacts on sustainability factors taken into account?"



# How did this financial product perform compared to the reference sustainable benchmark?

The Sub-Fund sought to achieve returns corresponding to those of its Reference Sustainable Benchmark. The sustainability indicators also performed in line with the index. Further details on the performance of the Sub-Fund and the index can be found on the website: www.jpmorganassetmanagement.lu by searching for the Sub-Fund and clicking on the Performance and Fees section.

Details on the Index, including its methodology, components and performance, are available at https://www.solactive.com/indices/?se=1&index=DE000SL0BE72, and further details on the Investable Universe, including its components and performance, are available at https://www.msci.com

How did the reference benchmark differ from a broad market index?

The Index applied this rules-based non-financial analysis process to select components from a broad market index, the MSCI World Index. The Index is designed to capture the performance of companies which have been identified through its rules-based process as best positioned to benefit from a transition to a low carbon economy by effectively managing their emissions, resources and climate-related risks.

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the sustainable investment objective?

The Sub-Fund's sustainable investment objective was to provide lower carbon emission exposure relative to the MSCI World Index (the "Investable Universe"). The Sub-Fund aimed to achieve this objective by tracking the performance of the Solactive J.P.Morgan Asset Management Carbon Transition Global Equity Index (the "Index") as closely as possible. The Index is designed to capture the performance of companies which have been identified through its rules-based process as best positioned to benefit from a transition to a low carbon economy by effectively managing their emissions, resources and climate-related risks whilst achieving a reduction of the greenhouse gas intensity of the Index of at least 7% on average per annum and an overall reduction of the greenhouse gas intensity of the Index compared to the Investable Universe of at least 30%. The index met these objectives, as confirmed by the index provider. More information is available in the Index Provider's Factsheet:

 $https://www.solactive.com/wp-content/uploads/solactiveip/en/Factsheet\_DE000SLOBE72.pdf$ 

The Sub-Fund delivered a reduction in weighted average carbon intensity vs. MSCI World of 69.21% which is consistent with the index.

The performance of the Sub-Fund closely tracked that of the index, as can been seen by the answer to the question directly below.

The Sub-Fund was also required to invest 80% in assets qualified as sustainable. At the end of the reference period, 89.49% of investments were classified as sustainable.

Reference benchmarks are indexes to measure whether the financial product attains the sustainable objective.

### How did this financial product perform compared with the reference benchmark?

The performance of the Sub-Fund was -18.66% net of fees over the reference period, whilst the benchmark returned -18.71%.

### How did this financial product perform compared with the broad market index?

The performance of the Sub-Fund was -18.66% net of fees over the reference period, whilst the broad market index, the MSCI World Index, returned -18.14%.

Template periodic disclosure for the financial products referred to in Article 9, paragraphs 1 to 4a, of Regulation (EU) 2019/2088 and Article 5, first paragraph, of Regulation (EU) 2020/852

Sustainable investment

means an investment in an economic activity that contributes to an environmental or social objective, provided that the investment does not significantly harm any environmental or social objective and that the investee companies follow good governance practices.

The EU Taxonomy is a classification system laid down in Regulation (EU) 2020/852 establishing a list of environmentally sustainable economic activities. That Regulation does not lay down a list of socially sustainable economic activities. Sustainable investments with an environmental objective might be aligned with the Taxonomy or not.

Product Name: JPMorgan ETFs (Ireland) ICAV - Climate Change Solutions UCITS ETF

Legal entity identifier: 5493006UW36ZSXHP0G74

### Sustainable investment objective

Did this financial product have a sustainable investment objective?			
• • X Yes	• No		
It made sustainable investments with an environmental objective: 100.00%	It promoted Environmental/Social (E/S) characteristics and while it did not have as its objective a sustainable investment, it had a proportion of _% of sustainable investments		
in economic activities that qualify as environmentally sustainable under the EU Taxonomy  in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy	with an environmental objective in economic activities that qualify as environmentally sustainable under the EU Taxonomy  with an environmental objective in economic activities that do not qualify as environmentally sustainable under the EU Taxonomy		
It made sustainable investments with a social objective: 0.00%	It promoted E/S characteristics, but did not make any sustainable investments		



# To what extent was the sustainable investment objective of this financial product met?

The Sub-Fund's sustainable investment objective was to provide exposure to the theme of climate change solutions. It was required to invest 100% of its assets in such securities. This commitment was met throughout the reference period (14 June 2022 - 31 December 2022). At the end of the reference period, the Sub-Fund held 100.00% of sustainable investments. The duration of the reference period can be less than 12 months if the fund was launched, closed or changed its Article 8/9 status during this time.

Through its inclusion criteria, the Sub-Fund set out to invest in sustainable investments which provided solutions in relation to key subthemes of climate change such as Renewables & Electrification, Sustainable Construction, Sustainable Food & Water, Sustainable Transport and Recycling & Re-Use.

How did the sustainability indicators perform?

The Investment Manager considered the key drivers of climate change as the key drivers of greenhouse gas emissions, which include energy in industry, energy in buildings, energy in transport, agriculture,

Sustainability indicators measure how the sustainable objectives of this financial product are attained.

chemicals/cement and wastewater / landfill. The Investment Manager sought to identify and invest in companies producing products and / or services (solutions) to mitigate each of these key drivers.

It was required to invest 100% of its assets in such securities.

Through its inclusion criteria, the Sub-Fund set out to achieve its sustainable objective by investing in companies best positioned to develop solutions to address climate change.

This commitment was met throughout the reference period. At the end of the reference period, the Sub-Fund held 100.00% of sustainable investments. The Investment Manager informs that the continuity of the percentage values and information disclosed cannot be guaranteed in the future and is subject to the constantly evolving legal and regulatory landscape.

### ...and compared to previous periods?

Not applicable for 2022

# How did the sustainable investments not cause significant harm to any sustainable investment objective?

The sustainable investments that the Sub-Fund intended to make were subject to a screening process that sought to identify and exclude, from qualifying as a sustainable investment, those issuers which the Investment Manager considered the worst performing companies, based on a threshold determined by the Investment Manager, in relation to certain environmental considerations. As a consequence, only those companies demonstrating the best indicators relative to both absolute and relative measures were considered sustainable investments.

Such considerations include climate change, protection of water and marine resources, transition to a circular economy, pollution and protection of biodiversity and ecosystems. In addition, the Investment Manager also applied a screen that sought to identify and exclude those companies that the Investment Manager considers to be in violation of the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights based on data supplied by third-party service providers.

# \_ How were the indicators for adverse impacts on sustainability factors taken into account?

The indicators for adverse impacts on sustainability factors in Table 1 of Annex 1 and certain indicators, as determined by the Investment Manager, in Tables 2 and 3 of Annex 1 of the EU SFDR Regulatory Technical Standards were taken into account as further described below. The Investment Manager used either the metrics in the EU SFDR Regulatory Technical Standards, or where this was not possible due to data limitations or other technical issues, a representative proxy. The Investment Manager consolidated the consideration of certain indicators into a "primary" indicator as set out further below and may have used an additional broader set of indicators than referenced below.

The relevant indicators in Table 1 of Annex 1 of the EU SFDR Regulatory Technical Standards consist of 9 environmental and 5 social and employee related indicators. The environmental indicators are listed at 1-9 and relate to green-house gas emissions (1-3), exposure to fossil fuel, share of non-renewable energy consumption and production, energy consumption intensity, activities negatively affecting biodiversity sensitive areas, emissions to water and hazardous waste (4-9 respectively). Indicators 10 – 14 relate to a company's social and employee matters and cover violations of UN Global Compact principles and OECD Guidelines for Multinational Enterprises, lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles, unadjusted gender pay gap, Board gender diversity and exposure to controversial weapons (antipersonnel mines, cluster munitions, chemical weapons and biological weapons) respectively.

The Investment Manager's approach included both quantitative and qualitative aspects to take the above indicators into account. It used particular indicators for screening, seeking to exclude companies that may cause significant harm. It used a subset for engagement with certain companies, seeking to influence best practice and it used certain of them as indicators of positive sustainability performance, by applying a minimum threshold in respect of the indicator to qualify as a sustainable investment. The data needed to take the indicators into account, where available, may have been obtained from investee companies themselves and / or supplied by third-party service providers (including proxy data). Data inputs that are self-reported by companies or supplied by third-party providers may be based on data sets and assumptions that may be insufficient, of poor quality or contain biased information. Due to dependency on third-parties, the Investment Manager cannot guarantee the accuracy or completeness of such data.

### Screening

Certain of the indicators were taken into account through the values and norms-based screening to implement exclusions. These exclusions took into account indicators 10 and 14 in relation to UN Global

Principal adverse impacts are the most significant negative impacts of investment decisions on sustainability factors relating to environmental, social and employee matters, respect for human rights, anti-corruption and

anti-bribery matters.

Compact principles and OECD Guidelines for Multinational Enterprises and controversial weapons.

The Investment Manager also applied a purpose-built screen. Due to certain technical considerations, such as data coverage in respect of specific indicators, the Investment Manager either applied the specific indicator per Table 1 or a representative proxy, as determined by the Investment Manager to screen investee companies in respect of the relevant environmental or social & employee matters. For example, greenhouse gas emissions are associated with several indicators and corresponding metrics in Table 1, such as greenhouse gas emissions, carbon footprint and greenhouse gas intensity (indicators 1-3). The Investment Manager used greenhouse gas intensity data (indicator 3), data in respect of non-renewable energy consumption and production (indicator 5) and data on energy consumption intensity (indicator 6) to perform its screening in respect of greenhouse gas emissions.

In connection with the purpose-built screening and in respect of activities negatively affecting biodiversity sensitive areas and the emissions to water (indicators 7 and 8), due to data limitations, third-party representative proxy data was used, rather than the specific indicators per Table 1. The Investment Manager also took into account indicator 9 in relation to hazardous waste in respect of the purpose-built screen.

### Engagement

In addition to screening out certain companies as described above, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. A subset of the indicators were used, subject to certain technical considerations such as data coverage, as the basis for engaging with selected underlying investee companies in accordance with the approach taken by the Investment Manager on stewardship and engagement. The indicators used in respect of such engagement include indicators 3, 5 and 13 in relation to greenhouse gas intensity, share of non-renewable energy and board gender diversity from Table 1. It also used indicators 2 in Table 2 and 3 in Table 3 in relation to emissions or air pollutants and number of days lost to injuries, accidents, fatalities or illness.

\_\_ Were sustainable investments aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights? Details:

The Sub-Fund applied a screen to align with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights as provided for under the Minimum Safeguards in the EU Taxonomy Regulation. Third-party data was used to identify potential violators. Unless an exception was granted, the Sub-Fund prohibited relevant investments in these issuers.



# How did this financial product consider principal adverse impacts on sustainability factors?

The Sub-Fund considered principal adverse impacts on sustainability factors through values and norms based screening to implement exclusions and active engagement with select investee companies.

The Sub-Fund used a comprehensive range of indicators from Annex 1 of the EU SFDR Regulatory Technical Standards in respect of such screening. It used indicators 1-14 in table 1 of this Annex which covers adverse sustainability impacts such as violations of the UN Global Compact, controversial weapons, GHG intensity, share of non renewable energy consumption and production, energy consumption and hazardous waste. It also considered select indicators in tables 2 and 3

A subset of the above-mentioned Adverse Sustainability Indicators were used to determine engagement with investee companies based on their respective PAI performance.



The list includes the investments constituting the greatest proportion of investments of the financial product during the reference period which is:

14/06/2022 - 31/12/2022

### What were the top investments of this financial product?

Largest Investments	Sector	% Assets	Country
XYLEM INC.	Industrials	4.26	United States
NEXTERA ENERGY, INC.	Utilities	4.00	United States
SCHNEIDER ELECTRIC SE	Industrials	3.88	France
TRANE TECHNOLOGIES PUBLIC LIMITED COMPANY	Industrials	3.84	Ireland
DEERE & COMPANY	Industrials	3.84	United States
INFINEON TECHNOLOGIES AG	Information Technology	3.65	Germany
UPM-KYMMENE OYJ	Materials	3.40	Finland
IBERDROLA, S.A.	Utilities	3.29	Spain
MERCEDES-BENZ GROUP AG	Consumer Discretionary	3.20	Germany
ABB LTD	Industrials	3.15	Switzerland
CNH INDUSTRIAL N.V.	Industrials	3.08	Netherlands
SIKA AG	Materials	3.08	Switzerland
AUTODESK INC	Information Technology	3.07	United States
KEYENCE CORPORATION	Information Technology	2.91	Japan
PRYSMIAN S.P.A	Industrials	2.83	Italy



### Asset allocation

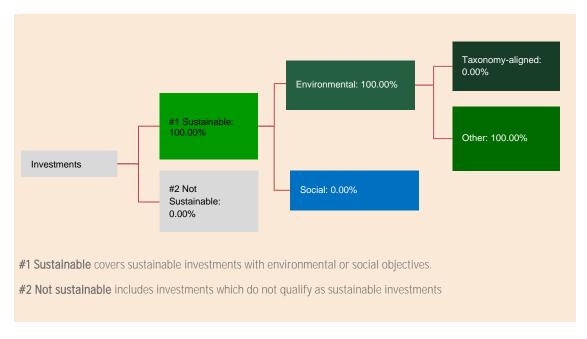
describes the share of investments in specific assets.

### What was the proportion of sustainability-related investments?

### What was the asset allocation?

At the end of the reference period, allocated 100.00% of its assets to companies aligned to the theme of climate change solutions and other assets for a specific purpose such as liquidity management.

Ancillary cash, cash equivalents, money market funds and derivatives for EPM were not considered as part of the "other" investments nor included in the % of assets set out in the table below as these holdings are minimal, fluctuate depending on investment flows and are ancillary to the investment policy with minimal or no impact on investment operations.



### In which economic sectors were the investments made?

Although the Sub-Fund had a Sustainable Objective, it may have invested across a broad range of sectors – please refer to the list below. In addition, the Investment Manager engaged on an ongoing basis with selected underlying investee companies. Investments within sectors and sub-sectors of the economy that derive revenues from exploration, mining, extraction, production, processing, storage, refining or distribution, including transportation, storage and trade, of fossil fuels, will be included in the table below if held. Ancillary cash, cash equivalents, money market funds and derivatives for EPM are included in the denominator for the % of assets set out in the table below.

Sector	Sub-sector	% Assets
Consumer Discretionary	Automobiles And Components	3.20
Consumer Discretionary	Consumer Durables And Apparel	0.21
Consumer Staples	Food Beverage And Tobacco	1.04
Industrials	Capital Goods	43.50
Industrials	Commercial & Professional Services	4.97
Information Technology	Semiconductors And Semiconductor Equip	7.39
Information Technology	Software And Services	5.74
Information Technology	Technology Hardware And Equipment	6.42
Materials	Materials	10.25
Real Estate	Real Estate	4.06
Utilities	Utilities	10.52

To comply with the EU Taxonomy, the criteria for **fossil gas** include limitations on emissions and switching to fully renewable power or low-carbon fuels by the end of 2035. For nuclear energy, the criteria include comprehensive safety and waste management rules. **Enabling activities** directly enable other activities to make a substantial contribution to an environmental objective.

Transitional activities are economic activities for which low-carbon alternatives are not yet available and that have greenhouse gas emission levels corresponding to the best performance.

Taxonomyaligned activities are expressed as a share of:

- turnover reflecting the share of revenue from green activities of investee companies
- capital expenditure (CapEx) showing



# To what extent were sustainable investments with an environmental objective aligned with the EU Taxonomy?

Data on EU Taxonomy alignment is currently very limited, in particular with regards to fossil gas and nuclear energy. We expect this to improve over time as more companies disclose their alignment, and the data becomes more available.

The Sub-Fund has made no minimum commitment to sustainable investment with environmental objectives aligned to the EU Taxonomy.

Therefore, the precontractual disclosure document for the Sub-Fund indicates the extent of targeted sustainable investments with an environmental objective aligned with the EU Taxonomy as 0.00%. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have environmental and / or social characteristics and sustainable investments (as defined by SFDR).

The below graphs illustrate the actual extent of investments in sustainable investments with an environmental objective aligned with the EU Taxonomy as measured at the end of the reference period.

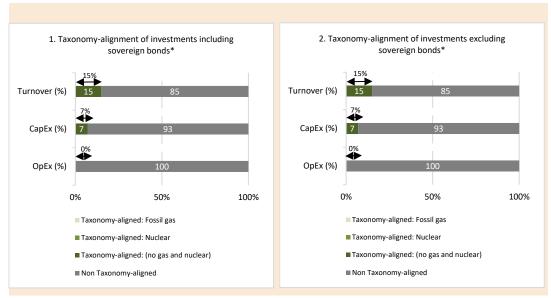
Did the financial product invest in fossil gas and/or nuclear energy related
activities complying with the EU Taxonomy¹?

Yes	
In fossil gas	In nuclear energy
<b>X</b> No	

The graphs below show in green the percentage of investments that were aligned with the EU Taxonomy. As there is no appropriate methodology to determine the taxonomy-alignment of sovereign bonds\*, the first graph shows the Taxonomy alignment in relation to all the investments of the financial product including sovereign bonds, while the second graph shows the Taxonomy alignment only in relation to the investments of the financial product other than sovereign bonds.

the green investments made by investee companies, e.g. for a transition to a green economy.

- operational expenditure (OpEx) reflecting green operational activities of investee companies.



This graph represents 22% of the total investment

\*For the purpose of these graphs, 'sovereign bonds' consist of all sovereign exposures

<sup>1</sup> Fossil gas and/or nuclear related activities will only comply with the EU Taxonomy where they contribute to limiting climate change ("climate change mitigation") and do not significantly harm any EU Taxonomy objective - see explanatory note in the left hand margin. The full criteria for fossil gas and nuclear energy economic activities that comply with the EU Taxonomy are laid down in Commission Delegated Regulation (EU) 2022/1214.

### What was the share of investments made in transitional and enabling activities?

Further to the above, the Sub-Fund has made no minimum commitment to making EU Taxonomy aligned investments – including Transitioning and Enabling activities. Any alignment outlined below is a by-product of the Sub-Fund's framework which considers investments that have sustainable investments.

The calculated share of Transitioning activities represents 0.00% and the calculated share of Enabling activities represents 9.03%, at the end of the reference period.

How did the percentage of investments aligned with the EU Taxonomy compare with previous reference periods?

Not applicable



# What was the share of sustainable investments with an environmental objective not aligned with the EU Taxonomy?

The share of sustainable investments with an environmental objective not aligned with the EU Taxonomy was 100.00% of assets at the end of the reference period.



### What was the share of socially sustainable investments?

The share of socially sustainable investments was 0.00% of assets at the end of the reference period.



# What investments were included under "not sustainable", what was their purpose and were there any minimum environmental or social safeguards?

Not Applicable - The Sub-Fund invests exclusively in sustainable investments in pursuit of its sustainable investment objective.

are sustainable investments with an environmental objective that do not take into account the criteria for environmentally sustainable economic activities under Regulation (EU) 2020/852.



# What actions have been taken to attain the sustainable investment objective during the reference period?

The following binding elements of the investment strategy were applied during the reference period to select the investments to attain the sustainable objective:

- To invest in companies that have been identified by the Investment Manager, at the time of purchase, as best positioned to develop solutions to address climate change, by being significantly engaged in developing such solutions, whilst not significantly harming any environmental or social objectives and following good governance practices.
- The values and norms-based screening to implement full exclusions in relation to issuers that are involved in certain activities such as manufacturing controversial weapons and applying maximum revenue, production or distribution percentage thresholds to others such as those that are involved in thermal coal and tobacco.
- The requirement for all issuers in the portfolio to follow good governance practices.

The Sub-Fund's strategy can be considered in respect of its general investment approach and ESG approach as follows:

Investment approach

- Used a ThemeBot which, through natural language processing, determined textual relevance and revenue attribution to identify companies exposed to the theme of climate change solutions and its related sub-themes.
- Used the results of Themebot as the basis for company selection, applying an active, bottom-up
  investment approach to stock selection, drawing on a fundamental research-based investment
  process.
- As above, applied values and norms based screening to implement exclusions.

ESG approach: Thematic

- Excluded certain sectors, companies / issuers or practices based on specific values or norms based criteria
- Objective to deliver a sustainability related theme with intentional environmental/ social outcome.
- A above, all issuers / companies follow good governance practices.



# How did this financial product perform compared to the reference sustainable benchmark?

Not applicable

Reference benchmarks are indexes to measure whether the financial product attains the sustainable objective. How does the reference benchmark differ from a broad market index?

Not applicable

How did this financial product perform with regard to the sustainability indicators to determine the alignment of the reference benchmark with the sustainable investment objective?

- How did this financial product perform compared with the reference benchmark?
   Not applicable
- How did this financial product perform compared with the broad market index?
  Not applicable

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