

Aviva Investors Climate Transition Global Equity Fund



LEI	FUND SIZE	AS AT
549300HJJZQ417PMX056	GBP 553m	30/12/2022

TCFD Fund Disclosures

We are required by the UK Financial Conduct Authority (FCA) to provide this document, which gives you information about the collective climate impact and risks of the assets held by the fund. The content is aligned with the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD), and complies with the specific sustainability disclosure rules of the FCA.

Fund Objectives & Policy

Objective: The Fund aims to grow your investment and provide an average annual net return greater than the MSCI® All Country World Index (the "Index") over a 5 year rolling period by investing in shares of global companies responding to climate change by orientating their business models to be resilient in a warmer climate and a lower carbon economy; or providing solutions to mitigate climate change or help communities adapt to the adverse impacts of climate change.

Core investment: At least 90% of the Fund will be invested in shares of Global Companies responding to climate change which meet the Investment Managers eligibility criteria as described below. "Global Companies" means companies in any country across the globe, including in emerging markets.

Other investments: The Fund may also invest in other shares which meet elements of the Investment Managers eligibility criteria (as described below), funds (including funds managed by Aviva Investors companies), cash, and deposits. Derivatives may be used from time to time to gain market exposure which may be difficult or costly to achieve directly, or to manage the Fund's cash flows in a cost-effective manner, or to reduce risk. This type of derivative usage is called "efficient portfolio management".

Strategy: The Fund is actively managed. The Investment Manager believes that the risks associated with climate change are currently mispriced, and therefore those companies which are responding to climate change and are currently undervalued present an opportunity to benefit from increases in value over the long term.

The benchmark provider does not endorse the product, nor confirm the accuracy of the information in this report.

Climate Risk Strategy

Companies will be identified as eligible for core investment if they satisfy the "Solutions" or "Transition" criteria detailed below, and are not excluded on the basis of their fossil fuel activities.

"Solutions" - the Investment Manager identifies themes related to mitigating the risk of climate change or helping communities to adapt to the adverse physical impacts of climate change. Companies will initially be assessed as offering "Solutions" depending on whether they derive at least 20% of their revenue from such themes. Companies meeting this revenue threshold are then assessed using the Investment Manager's proprietary analysis which further examines the revenue sources by business segment to determine whether the business activities satisfy the "Solutions" criteria and the company is eligible for investment.

"Transition" - the Investment Manager identifies companies positively aligning to and orientating their business models to be resilient in a warmer climate and a low carbon economy. Companies will be assessed using the Investment Manager's proprietary Transition Risk model. This model identifies the climate change risk for certain sub-industries "Transition Risk" ranking the risk as high, medium or low, and combines this with a score which provides a measure of the quality of climate risk management processes in place at individual companies, calculated using ratings provided by external industry recognised bodies the "Climate Risk Management Score". The combination of these two elements determines whether a company satisfies the "Transition" criteria. For example, companies operating in high Transition Risk sub-industries will have to attain a higher Climate Risk Management Score to be deemed as eligible for investment.

Fossil fuel exclusions - companies deriving prescribed levels of revenue from certain fossil fuel activities will be excluded from the Fund's core investment. These criteria create an eligible pool of core investments from which the Investment Manager will select specific companies.

Core investments may include companies that are high carbon emitters, but which have in place robust Transition Risk plans and climate risk management processes, as assessed under the Investment Manager's Transition Risk model. Further details on the fossil fuel exclusions, the “Solutions” and “Transitions” criteria, and the ratings provided by external industry recognised bodies for the

For the investments selected within the portfolio we actively engage with these companies and use voting rights with the aim of positively influencing their climate risk strategy and helping to create competitive returns.

Please see page 116 of [Aviva’s Climate-related Financial Disclosure](#).

Climate Risk Management

Aviva Investors Global Services Limited, the funds appointed Investment Manager, has ESG-specific controls to perform ongoing oversight and ensure compliance, which contributes to, and supports, the investment functions in the delivery of a strong first-line risk and controls management and governance.

Climate factors have the potential to cause harm to our clients by reducing the value of their investments or by creating stranded assets. Inefficient allocation of capital to companies with high external costs, such as those engaged in highly polluting or socially disruptive activities, can lower asset values over time, reducing returns to investors.

Please see page 116 of [Aviva’s Climate-related Financial Disclosure](#).

Climate Risk Governance

Aviva Investors has a strong system of governance, with effective and robust controls.

Aviva Investors UK Fund Services Limited has an independent governance structure to Aviva Investors which allows the Board, management committee and senior management to integrate climate related risks and opportunities into its strategy, decision making and business processes.

When Aviva Investors UK Fund Services Limited appoints an investment manager to manage a product they are required to demonstrate that effective Climate, ESG and responsible investment policies are in place and climate risk management is embedded into the investment process.

For further information on how we integrate ESG please refer to the Aviva Investors UK Fund Services Limited’s Responsible Investment policy which is available on our website and in the prospectus.

Please see page 116 of [Aviva’s Climate-related Financial Disclosure](#).

Fund Greenhouse Gas Emissions

The table below show the key measures used to evaluate the Greenhouse Gas emissions impact of the fund as at 30 December 2022.

Climate Metrics	Unit of measurement	Coverage	2022 Amount
Total scope 1 and 2 greenhouse gas emissions	tCO2e - shown in thousands	100%	15.01
Total carbon emissions	tCO2e - shown in thousands	100%	15.01
Total carbon footprint	tCO2e / \$million invested	100%	23
Weighted average carbon intensity	tCO2e / \$million Revenue	100%	135

Data sources – please see information on data sources shown later in this document. **Note** - Zero balances may be a result of rounding.

Carbon Emissions Metrics Explained: We use the following metrics to measure the collective carbon impact of the fund’s holdings, calculated according to TCFD standards, which in turn are based on the internationally accepted [GHG Protocol](#):

Metric	TCFD Definition, based on GHG Protocol
Scope 1 Greenhouse Gas Emissions (Metric Tonnes)	Direct GHG emissions that occur from sources that are owned or controlled by the company.

Metric	TCFD Definition, based on GHG Protocol
Scope 2 Greenhouse Gas Emissions (Metric Tonnes)	GHG emissions from the generation of purchased electricity consumed by the company.
Scope 3 Greenhouse Gas Emissions (Metric Tonnes)	GHG emissions that are a consequence of the activities of the company, but occur from sources not owned or controlled by the company. Will be disclosed from June 2024 onwards.
Total Greenhouse Gas Emissions (Metric Tonnes)	Total of Scopes 1 and 2 until June 2024, and total of Scope 1, 2, and 3 from June 2024 onwards.
Total Carbon Footprint (Metric Tonnes per \$1M AUM Contribution)	Total carbon emissions for a portfolio normalized by the market value of the portfolio, expressed in tonnes CO ₂ e/\$M invested.
Weighted Average Carbon Intensity (Metric Tonnes per \$1M Revenue)	Volume of carbon emissions per million dollars of revenue (carbon efficiency of a portfolio), expressed in tonnes CO ₂ e/\$M revenue.

Exposure to high carbon emissions risk sectors

Sector analysis is a key part of our strategy. We'll continue to build on our approach by identifying, assessing, and reducing climate risks as we move forward.

For more information on our approach to managing these risks please see the Aviva plc Climate-related Financial Disclosure 2022 report available at <https://www.aviva.com/sustainability/reporting/>.

Climate risks

There are two main types of climate-related risks: physical risk and transition risk.

Physical risk has two components:

- Acute risks, stemming from more frequent and severe weather events like heatwaves, droughts, wildfires, and flooding; and
- Chronic risk driven by longer term shifts in climate patterns like sea level rise, and higher average temperature.

Physical risks can have a severe impact on properties (including assets owned or used by companies, such as production facilities), infrastructure and land. So, they can have a negative impact on all sectors either directly or indirectly, for example, through business disruption. Some sectors, such as real estate and agriculture, are particularly exposed to such risks.

Transition risks are generally estimated based on costs of shifting to a low-carbon economy. They arise primarily from policy change and level of technological adoption, but also from market developments such as changes in consumer preferences. These risks can impact all companies, but particularly sectors like Energy, Utilities and Industrials that are sensitive to carbon price policies and emissions regulations.

A company's profitability will be affected by its sensitivity to the physical and transition effects of climate change. These risks aren't mutually exclusive, which means a company can be exposed to both. This is because failure to adapt to climate change that is already happening carries a cost even if climate policies and technologies are deployed extremely fast to reduce future emissions.

The sector transition risk analysis in the sections below focuses on GHG emissions reduction and carbon intensive industry sectors. This is to provide commentary on the sector emissions and carbon intensity metrics above.

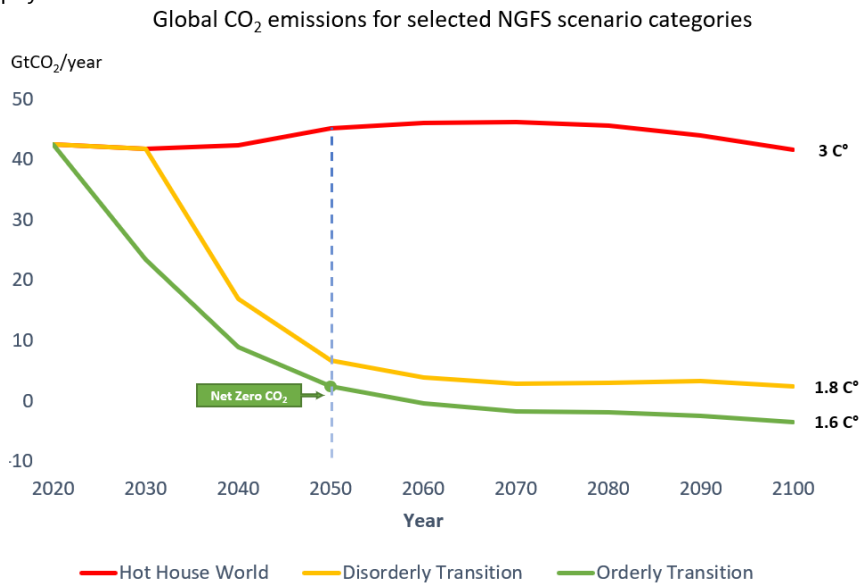
Scenario analysis

To understand how physical and transition risks could affect different sectors in the future, we use climate change analysis scenarios prepared by the Network for Greening the Financial System (NGFS)¹. This covers six scenarios in three categories: "Orderly", "Disorderly", and "Hot House World". Each outlines a different possible climate pathway and its likely outcome by 2100.

- **Orderly transition** scenarios assume climate policies are introduced earlier and gradually become stricter. In this scenario, worldwide GHG emissions will reach net zero by 2050, and there is a higher likelihood that global warming is likely to be less than 2°C higher than pre-industrial levels. There are two key transition objectives: to significantly reduce the GHG emissions from the global energy sector (known as decarbonisation) by shifting from burning fossil fuels to using renewable energy, and to electrify energy usage in high carbon-emitting sectors.

- **Disorderly transition** scenarios assume climate policies are delayed until after 2030. Because the shift from fossil fuels to renewables remains slow and climate policies are implemented later, with emissions continuing to rise in the meantime, the transition would need to happen from a higher emissions level over a shorter period of time to limit global warming below 2°C. A sharper transition would be less coordinated, more complex and more costly. Physical risks would also be higher than in an Orderly transition.
- **Hot house world** scenarios assume that current policies stay the same. Paris Agreement commitments aren't met, and emissions and temperatures continue to rise. This causes severe physical risks, as well as social and economic disruptions. In these scenarios, the temperature will rise to over 3°C by 2100.

The chart below illustrates the three NGFS scenarios. If immediate actions are taken to reduce global levels of GHG emissions to net zero by 2050, this would lead to a 1.6°C global temperature increase by 2100 under the Orderly scenario. If no further policies are implemented, resulting in the Hot House World scenario, global mean temperature would rise to 3°C or more by the end of the century, very significantly increasing the impact of physical risks.



Data Source: IIASA NGFS Climate Scenarios, REMIND Model

¹ The new 2022 NGFS scenarios draw on the Integrated Assessment Models (IAMs) used by the Intergovernmental Panel on Climate Change, Sixth Assessment Report (IPCC AR6). The NGFS scenarios are widely used by central banks and the financial sector to analyse climate risks and opportunities.

We use the Global Industry Classification Standards (“GICS”) in the sector commentary which follows. GICS is widely used by finance firms, and covers 11 economic sectors: Communication Services, Consumer Discretionary, Consumer Staples, Energy, Financials, Health Care, Industrials, Information Technology, Materials, Real Estate and Utilities.

There are different levels of climate risk for each economic sector. Policies, technological development, and changing societal preferences affect how quickly sectors transition to a low-carbon economy and how companies within them are valued.

Top 3 Carbon Emitting GICS sectors

For Equities and Corporate Bonds, we can break emissions down by sector. We use the Global industry Classification Standard (GICS) system, and measure all greenhouse gas (GHG) emissions, not just carbon.

Metrics have been prepared for £534m of the Equity and Corporate Bonds.

The 3 largest (scope 1 & 2) carbon emitting Global Industry Sectors of the fund in Equities and Corporate Bonds are:

GICS Sector	WACI tCO ₂ e / \$m Revenue*	Contribution to Portfolio WACI%	Assets holding £m	Assets exposure %**
Industrials	274	54	142	27
Materials	839	33	28	5

GICS Sector	WACI tCO ₂ e / \$m Revenue*	Contribution to Portfolio WACI%	Assets holding £m	Assets exposure %**
Information Technology	20	4	135	25

Data sources – please see information on data sources shown later in this document. **Note** - Zero balances may be a result of rounding.

*Carbon Intensity data is available for scope 1 & 2 emissions only.

**Sector information is unavailable for 0% of the fund's Equity & Corporate Bonds Assets.

Industrials

The sector includes manufacturing and transport. The aviation and shipping industries are particularly exposed to a high level of climate related risks as they still rely heavily on fossil fuels, while zero-emission and low-carbon vehicle operations – a long term opportunity – require considerable infrastructure and technology investment.

Changing consumer preferences could lead to lower demand and reduced revenue for certain modes of transport, particularly those that will likely take longer to decarbonise. Equally, it could present opportunities for other modes of transport, such as rail.¹ It also presents opportunities for companies developing sustainable fuels and/or vessels using low carbon fuels, such as ammonia for shipping.

In a Hot house world scenario, the sector is exposed to physical risk. For example, this could be in the form of disrupted operations through frequent re-routings and temporary route closures, as well as damage to infrastructure from extreme weather events. This will have an impact on costs, earnings, and profitability for these companies.

[1] Rail transport emits six to 41 grams of carbon dioxide equivalent (CO₂e) per passenger kilometre travelled, compared with 150 grams for an economy long-haul flight and 255 grams for a domestic flight. A shift from other modes of transportation to rail would therefore help decarbonize the transportation sector as a whole.

Materials

This sector includes companies that manufacture chemicals, construction materials, forest products, glass, paper and related packaging products, and metals, minerals and mining companies, including producers of steel.

Companies are exposed to a very high level of climate risk under the Orderly and Disorderly transition scenarios. For example, while changes in the cement production process¹ could help reduce carbon emissions, a real break-through requires large-scale deployments of Carbon Capture and Storage (CCS), and that requires additional capital investment costs. The costs for furnace retrofitting with CCS or switching to renewable energy (e.g. green hydrogen) will be costly for steel producers.

The transition to electric vehicles and much greater use of energy storage will benefit certain mined products such as lithium, copper, cobalt and nickel. This would require increased investment in developing production, as well as addressing new environmental regulations and social challenges.

[1] Lower clinker-to-cement ratio, lower thermal energy intensity and a higher share of bioenergy and renewable waste.

Information Technology

The sector comprises companies that offer software and information technology services. This covers manufacturers and distributors of technology hardware and communications and electronic equipment. Direct exposures to climate-related risks are generally low for this sector, but certain companies or industries may be indirectly exposed through their supply chains.

The software services sector has low environmental impact. Increasing requirements for power management (e.g. smart grids) and energy efficiency, particularly in buildings and manufacturing, can drive demand for more sophisticated software.

Data centres require cooling in operations, making them very high-emissions. So emissions regulations can drive risk for companies. Data centres have a moderate climate risk under the hot house world scenario, if they are located in regions with higher exposure to extreme weather.

Product Scenario Alignment

Indicating the likely implied temperature rise associated with a fund's investments is inherently complex, it is a rapidly evolving metric which has to include a host of assumptions by its very nature, guidance on how best to calculate this forward looking indicator is improving all the time, but currently we do not feel it appropriate to publish this data as it risks being potentially misleading and in any event would be heavily caveated and only indicative of a range of potential temperature rises and subsequent associated scenario's given the uncertainty of forecasts for the global economy to decarbonise. We intend to publish the implied temperature rise (ITR) of our investment products in subsequent years once we have designed a suitably robust methodology to represent the most likely possible future decarbonisation pathway of a representative basket of assets for a fund based on its sector, asset class and/or investee company specific projected decarbonisation pathways and other relevant carbon intensity data such as the likes of progress against the Science Based Target Initiative.

In the meantime the most decision useful information to enable comparison between funds based on their implied temperature rise is to use independent research that compares funds using the same methodology, this is freely available from climate data providers such as MSCI as per their ESG fund ratings and climate search tool <https://www.msci.com/our-solutions/esg-investing/esg-fund-ratings-climate-search-tool>. Comparing funds ITR scores from different firms which may be using proprietary models and differing assumptions could produce misleading results in that near identical funds could show very different numbers based on the method and bullishness of the model used and assumptive inputs.

Climate Value-at-Risk

Climate Value at Risk (Climate VaR) has emerged as a measure to estimate the potential financial losses that a company or portfolio of assets could incur as a result of climate change, we are currently evaluating the robustness of this measure and intend to publish it for future iterations of our fund level TCFD reports once we are comfortable the data has sufficient coverage and quality and once we have fully understood the potential limitations and weaknesses of the metric so we can present it in a suitable way. This includes ensuring the appropriate time horizon of the indicator and the appropriate scenarios are reflected in the output in a way that ensures it is not potentially misleading.

Other Metrics

There are countless options rapidly developing that are designed to convey climate risks and opportunities, we will keep this metrics under review and where they are deemed to be decision useful we will endeavour to incorporate them into our future reporting suite in conjunction with formal adoption of additional data by TCFD and other disclosure standards boards and regulations.

Climate Metrics

Our key climate figures show the carbon emissions for each investment fund. Metrics are disclosed for Equities and Corporate Bonds and Sovereigns. There are three types of emissions we consider: Scope 1 (direct), Scope 2 (indirect) and Scope 3 (from a company's value chain). This year, we're publishing numbers for Scope 1 and Scope 2. In the future, we'll add Scope 3, but the current data isn't sufficiently established.

Climate metrics include estimates of emissions and climate change, for more details, our reporting approach¹ and cautionary statements are provided in the Aviva plc Climate-related Financial Disclosure 2022 report available at <https://www.aviva.com/sustainability/reporting/>.

¹ The principal reporting policies adopted in the preparation of these climate metrics are set out in the following sections of [Aviva plc Climate-related Financial Disclosure 2022 report](#); Climate reporting policies (pages 59 - 60), reporting criteria (note 14 – page 64 - 65), our approach and methodology for climate metrics (note 5: page 66 - 68, note 6: page 68 – 69), key estimates and assumptions (note 5: page 66 - 68, note 6: page 68 – 69), and cautionary statements (page 122 - 123). Judgement has been applied in this annualisation to incorporate expectations for expected usage (and therefore emissions) in the last 3 months of the year taking into account historical emission data.

Useful Link

[Aviva's Climate-related Financial Disclosure](#)

Data sources

We have used climate and other data from MSCI ESG Research LLC or its affiliates or information providers. Although Aviva's information providers, including without limitation, MSCI ESG Research LLC and its affiliates (the 'ESG Parties'), obtain information (the 'Information')

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