Legal & General

Workplace | Fund | Corporate Bond

Climate-Related Financial Disclosures Report
L&G PMC Investment Pathway Option 4 Take Money A3

Fund Launch Date	Fund Size	Fund ID
24 September 2020	£23m	B233

This report from Legal & General has been produced in line with recommendations from the Task Force on Climate-Related Financial Disclosures (TCFD). The first section of the report helps us to measure and manage the impact of our investments on the environment. The second section helps us to understand the risks and opportunities that climate change may have on your pension.

Section 1 – Emissions and climate data for L&G PMC Investment Pathway Option 4 Take Money A3

This section of the report contains data for carbon dioxide (CO2) emissions, and other greenhouse gases (GHGs), that when emitted into the atmosphere are responsible for the greenhouse effect (global warming) on the planet. Carbon dioxide equivalent (CO2e) is a standard way to compare the emissions of different greenhouse gases. The choice of this metric and the below measurement and scenarios follows best practice recommendations from the TCFD.

Please refer to the **'how we measure and calculate'** section for more details on the metrics below. We aim to use language that's easy to understand. Where we've had to use terms that you may not be familiar with we've provided definitions. The terms will be highlighted in **brown** and an explanation of their meaning can be found in the **'terms explained'** section.

To provide context for the below metrics, 1 tonne of CO2e approximately represents:

Return flight from London to New York
Source: Planetair travel calculator

138 meat-based meals
Source: Carbon equity

To capture 1 tonne of CO2 approximately 50 trees must grow for one year
Source: Climate Neutral Group

Scope 1 emissions

494
Metric tonnes **CO2e | Asset coverage:** 75%

These are greenhouse gas emissions owned and controlled directly by the companies that the Fund invests in. For example, emissions through company vehicles, company office space and equipment, and the energy used in production of goods or services.

2022 metric figure = 356	**22/23 difference = 138**
2022 asset coverage = 70%	**22/23 difference = 5%**

Scope 2 emissions

149
Metric tonnes **CO2e | Asset coverage:** 75%

These are emissions that the companies, which the Fund invests in, make indirectly via consumption of purchased heat, steam or electricity, all of which are produced on its behalf and owned by another.

2022 metric figure = 100	**22/23 difference = 49**
2022 asset coverage = 70%	**22/23 difference = 5%**

Total scope 1 & 2 carbon emissions

643
Metric tonnes **CO2e | Asset coverage:** 75%

The total greenhouse gas/carbon emissions of the Fund, in tonnes of **CO2e**. It includes Scope 1 and Scope 2 emissions.

2022 metric figure = 455	**22/23 difference = 188**
2022 asset coverage = 70%	**22/23 difference = 5%**

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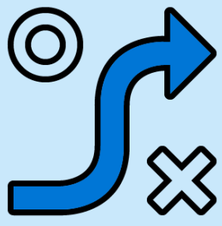
Scope 3 emissions

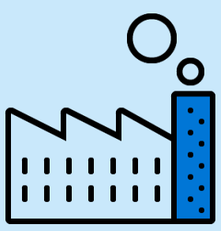


10,087
Metric tonnes **CO2e**
Asset coverage: 75%

Includes all other indirect CO2e emissions, not included in Scope 2, that occur in a company's value chain. This means the emissions that are generated before or after a company's operations. Scope 3 emissions are not directly owned or controlled by the company. For example, the business travel undertaken by employees, or when a company uses and disposes of products from other suppliers.

Data for this metric was not available for the reporting period to 31st December 2022. A comparison will be available in the reports published in June 2025.

Weighted average carbon intensity (WACI)



82
Metric tonnes **CO2e** per £1m of company revenue
Asset coverage: 85%

Weighted average carbon intensity is a standard measurement to understand emissions after adjusting for the size of a company. This metric portrays the amount of carbon produced relative to the varying sizes of companies held within the Fund.

2022 metric figure = 85	**22/23 difference = -3**
2022 asset coverage = 78%	**22/23 difference = 7%**

Carbon footprint

29
Metric tonnes **CO2e** per £1m of our investment
Asset coverage: 76%

A carbon footprint demonstrates activities that result in greenhouse gas emissions. This metric highlights the Fund's carbon footprint relative to activities and market value.

2022 metric figure = 41	**22/23 difference = -12**
2022 asset coverage = 71%	**22/23 difference = 5%**

Implied temperature alignment

2.3°C
Asset coverage: 79%

This is the suggested global climate temperature outcome the Fund is compatible with, by the year 2100. The approach reflects the link between companies' carbon emissions and global warming outcomes. The **Paris Climate Agreement** aims to limit global warming to well-below 2°C, ideally 1.5°C.

2022 metric figure = 2.5°C	**22/23 difference = -0.2**
2022 asset coverage = 69%	**22/23 difference = 10%**

Climate value at risk

-1.6%
Asset coverage: 53%

This metric aims to analyse the impact of climate change on the present market value of financial assets, under the assumption that it is unlikely climate risks are properly priced into markets today. The metric assesses the potential financial losses that a fund could incur because of climate change and policy, through things like **carbon pricing** and changes in economic productivity. The metric shows the potential risk under a 1.5°C scenario where net zero CO2 emissions are achieved around 2050.

Data for this metric was not available for the reporting period to 31st December 2022. A comparison will be available in the reports published in June 2025.

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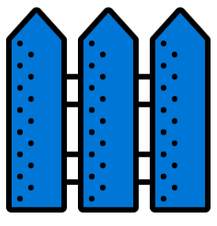
Assets that are measured for climate reporting
Pension money can be invested in one or more funds containing one or more asset classes. Asset classes include things like equities (company shares), bonds (loans to governments and companies), property and cash. Assets can only be measured for climate reporting where relevant and where sufficient climate data is available to do so.

Therefore according to data availability the asset classes measured are:

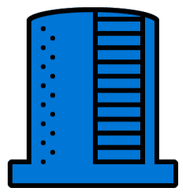
- Equities and corporate bonds for the ‘total carbon emissions’, ‘scope 1 emissions’, 'scope 2 emissions’ and 'scope 3 emissions'.
- Equities, corporate bonds and government (sovereign) bonds for ‘weighted average carbon intensity’, ‘carbon footprint’ and ‘implied temperature alignment’.

However, some equities or bonds may not be included where meaningful data can’t be provided or where they are not included in the asset mix of the fund. Whilst some metrics measure the same assets, the data availability may vary per metric. The asset coverage figures provided in the metrics, on the previous page, show the percentage of assets that provided meaningful data and are eligible for this type of climate reporting. The data is sourced and provided by our investment management business, Legal & General Investment Management (LGIM).



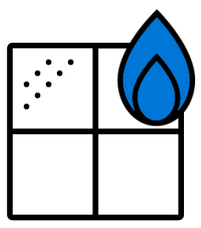
How we calculate: Total carbon emissions

Total including Scope 1 and 2 emissions. We measure this for companies that we hold within a fund’s asset mix, through bonds and/or equities. It is based on the share of emissions we will hold in a particular company through the amount of investment held. This is done by calculating the company’s overall emission total against the percentage share we have in that company as part of a fund’s holdings. The amount of carbon dioxide equivalent (CO2e) calculated per company is then combined into an overall total for the percentage of eligible assets. This includes scope 1 and scope 2 emissions only. Scope 3 emissions are distinct and separate, and as such we follow the guidance of LGIM in not combining Scope 3 with Scope 1 & 2 emissions.



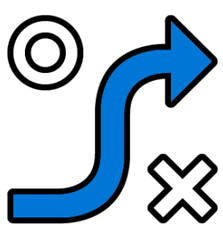
How we calculate: Scope 1 emissions

By using the same calculation method for total carbon emissions, we measure this for the proportion of companies that we hold within a fund’s asset mix, through bonds and/or equities, for their scope 1 emissions.



How we calculate: Scope 2 emissions

By using the same calculation method for total carbon emissions, we measure this for the proportion of companies that we hold within a fund’s asset mix, through bonds and/or equities, for their scope 2 emissions.



How we calculate: Scope 3 emissions

Measured for companies that we hold within a fund’s asset mix, through bonds and/or equities. It is based on the share of emissions we will hold in a particular company through the amount of investment held.
This is done by calculating the company’s overall emission total against the percentage share we have in that company as part of a fund’s holdings. The amount of carbon dioxide equivalent (CO2e) calculated per company is then combined into an overall total for the percentage of eligible assets.
Data quality for Scope 3 emissions can be hampered by poor disclosure and a lack of consistency in the measurement across companies.

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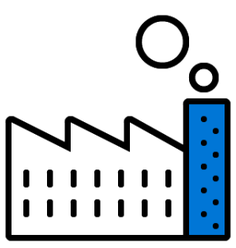

How we calculate: Weighted average carbon intensity (WACI)

We measure a tonne of carbon dioxide equivalent (CO2e) emissions per £1million revenue (income generated from company as sourced in year-end financial statements). The overall total is a **weighted average** of all companies and sovereigns (various types of bonds, which are long and short term loans to local and national governments) included within a fund. WACI gives an emissions intensity metric based on the amount of carbon produced for each £1m of revenue generated by the companies invested in.

How we calculate: Carbon footprint

To calculate the carbon footprint associated with this Fund, we take the 'total carbon emissions' figure (which includes data on carbon emissions from a company's operations and purchased energy) and calculate a **weighted average** against the overall market value of all companies and sovereigns (various types of bonds, which are long and short term loans to local and national governments) within a fund. This is a way to measure emissions relative to market size. Carbon Footprint also acts as an emissions intensity metric, which is the volume of emissions (metric tonne of carbon dioxide, CO2e) per £1million of enterprise value. By looking at an intensity value you can adjust for the size of a fund to compare the funded emissions for different fund sizes.

How we calculate: Implied temperature alignment

Based on a combination of historical and forward-looking data, activities and targets, a score is calculated for each of the underlying equities, corporate bonds and sovereign/government bonds held within a fund, then combined to give the implied temperature alignment of the overall fund.

How we calculate: Climate value at risk (CVaR)

Climate scenario modelling is used to help quantify the expected potential loss to each fund or lifestyle profile under different climate pathways. The CVaR metric assesses the change in value if markets fully priced today the future climate risk for relevant companies, in present value terms of a scenario where global temperature increases are kept to 1.5°C by 2100. This scenario would require immediate, highly ambitious action to address climate change.

Under this condition, the climate modelling translates a company's income and balance sheet information and calculations into security valuation impacts and overall fund level impacts. A security can include equities (shares in companies) or bonds (loans to business and governments).

The Climate VaR metric is from a forward-looking methodology based on various assumptions, approximations and data sources which are subject to change. This brings unknown risks, uncertainties and limitations in the methodology and data used. It is therefore provided for illustrative purposes only.

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Section 1 – Emissions and climate data for L&G PMC Investment Pathway Option 4 Take Money A3

Terms explained

CO2e
CO2 stands for carbon dioxide. The ‘e’ stands for equivalent. CO2e is a metric that allows comparison of emissions from various greenhouse gases to the equivalent measure of carbon dioxide.

Asset coverage
The percentage of the fund’s asset classes that were measured. The asset classes that can be measured are equities (company shares) and government and corporate bonds. Some funds may include one or more of these asset types.

Paris Climate Agreement
To address global warming, the international climate change treaty, the Paris Climate Agreement, aims to limit and hold the world’s average temperature rise to well-below 2°C (ideally 1.5°C) by the year 2100. Currently, the Earth is already about 1.1°C warmer than it was in the late 1800s (pre-industrial).

For context, global stock markets imply an average temperature rise of 2.95°C. This is according to the Science-Based Targets initiative (SBTi) ‘Taking the Temperature’ report: SBTi-TakingtheTemperatureReport2021.pdf (sciencebasedtargets.org)

Weighted average
A weighted average accounts for the relative importance and size of the different assets that are included. We will hold varying levels of assets within a fund, for example we may hold more shares in one company over another. We use a weighted average to allow for the different importance of the carbon data for assets according to size held, based on the market value at the reporting date. This weighted average paints a clearer picture than an equally split average would.

Carbon pricing
A carbon price is the price that a company would have to pay for each tonne of CO2e emitted.

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Section 2 – Climate scenario and risk analysis: Corporate Bond

To address global warming, the international climate change treaty, the Paris Climate Agreement, aims to limit and hold the world's average temperature rise to well-below 2°C (ideally 1.5°C) by the year 2100. Currently, the Earth is already about 1.1°C warmer than it was in the late 1800s.

To help achieve this, the aim is to achieve net zero carbon emissions globally by 2050. Net zero means cutting carbon dioxide (CO2) to as close to zero as possible, with remaining emissions re-absorbed or removed from the atmosphere, by oceans, forests or carbon capture technology for instance. At the same time, it also requires deep reductions in other greenhouse gases, particularly methane.

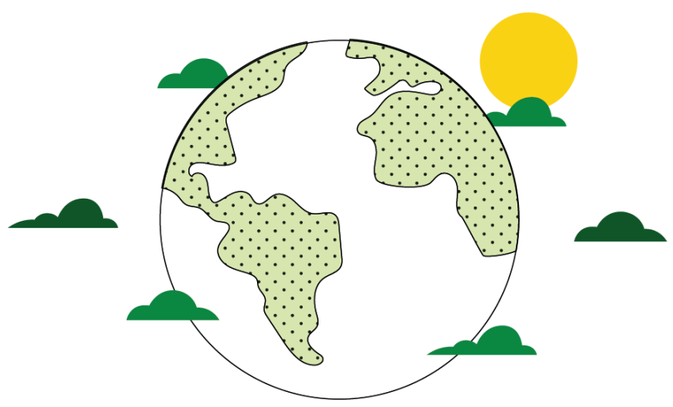
This means that we need to move to an economy built on sustainable actions that result in less environmental impact, known as transitioning to a low-carbon economy. This will bring associated transition risks and opportunities. In addition to ongoing risks from the changes in extreme weather events, a successful adjustment will involve significant changes to climate-related policy, regulations and law; use of technology; and business and government strategies.

Depending on how well businesses and governments transition, this will have a ripple effect on areas like reputation and trust, business and market performance, supply and demand of materials and goods.

Against this backdrop, the following scenario analysis, based on climate scenario modelling from Legal & General Investment Management (LGIM), helps us to explore a range of possible climate futures and understand the potential climate-related risks for this asset class. This section relates to this asset class and is not just applicable to the named fund in this report.

We consider three temperature scenarios for this assessment as shown in the following pages. The scenarios have a forecast time horizon to 2050, with narratives defined by their probable temperature outcome in 2100 (compared to pre-industrial temperatures in the 1800s). These are possible pathways, rather than predictions or probabilities. They are an exercise in what could happen, not in predicting what will happen.

Scenario analysis is provided for the representative asset class based on the dominant proportion of assets - Corporate Bonds, Equity, Sovereign Bonds and Multi-Asset. Cash, Derivatives and Private Equity do not have scenario analysis detail at this time.



Opportunities

While we have identified potential risks, companies and governments that can effectively plan and participate in the move to a more sustainable economy over the next 10 years - creating a decade of delivery – can also create opportunities. A number of opportunities exist to gain market share and public trust, reduce costs and emissions, while benefiting the planet. In particular, we should expect to see some opportunities for companies with capabilities in electric vehicles, green fuels, technology, renewables and critical minerals.

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Section 2 – Climate scenario and risk analysis: Corporate Bond

WELL-BELOW 2°C ORDERLY TRANSITION SCENARIO

Immediate, ambitious policy and investment action to address climate change succeeds in limiting global warming to well-below 2°C.

	POTENTIAL RISKS	POTENTIAL FINANCIAL IMPACTS
Short Term: 1-3 years	• Low likelihood of financial risk from climate-related policy and legal challenge, technological change, market demand and movement or reputational factors for corporate bonds over the short term. • Risks from weather events are already being felt but are more localised and not expected to have an impact on bonds in the short term.	• Low financial risk over the short term for corporate bonds.
Medium Term: 4-10 years	• Increased frequency and severity of extreme weather events. • More policy measures. • Companies failing to adapt to technological change and the move to a low-carbon economy. • Legal cases against large businesses on their climate-related strategies and emissions. • Emissions-intensive companies may face reputational risk from their inaction and continued contribution to global warming.	• Use of **carbon pricing** for high emissions. • Companies will need to manage increased costs against potential reductions in demand. • Depending on transparency of further policy action, fossil fuel providers may start to see their credit ratings fall, possibly to sub-investment grade, with some impact on global corporate bond funds. • **Stranded assets** within funds that no longer produce income. • Successful legal cases will have financial impact on those involved and may stall policies and projects.
Long Term: over 10 years	• Increased frequency, severity and unpredictability of extreme weather events. • **Carbon prices** continue to rise. • Demand changes and trade barriers. • Failure to adopt **low-carbon technologies** may have small impact at corporate bond fund level.	• Business interruptions and impact on profits, economic impacts, damage to infrastructure and supply chain issues from extreme weather events. • **Carbon price** rise could have a financial impact on global bond indices. • Significant profit losses for companies that don't respond to technological and policy changes.

Terms explained

Carbon pricing

A carbon price is the price that a company would have to pay for each tonne of CO_2e emitted.

Stranded assets

This means an asset (such as a coal-fired power plant) that once had value or produced income but no longer does. This is usually due to some kind of external change, including changes in technology, markets, regulations and societal behaviours.

Low-carbon technologies

These are technologies that produce low levels of CO_2 emissions, or no net emissions. Examples include wind turbines, solar power, ground source heat pumps.

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Section 2 – Climate scenario and risk analysis: Corporate Bond

WELL-BELOW 2°C DISORDERLY TRANSITION SCENARIO

Policy and investment action to limit global warming to well-below 2°C is delayed by 10 years, resulting in much more disruptive change from 2030.

	POTENTIAL RISKS	POTENTIAL FINANCIAL IMPACTS
Short Term: 1-3 years	• Low likelihood of financial risk from climate-related policy and legal challenge, technological change, market demand and movement or reputational factors for corporate bonds over the short term.	• Low financial risk over the short term for corporate bonds.
Medium Term: 4-10 years	• Increased frequency and severity of extreme weather events. • Social disruptions with calls for action on delayed policy measures. • Failure to respond to required technological changes. • Emissions-intensive companies may face reputational risk from their inaction and continued contribution to global warming. • Legal cases against large businesses on their climate-related strategies and emissions.	• Delays in policy could lead to a more economically disruptive environment. • Emissions-intensive companies may face reputational risk from their inaction and continued contribution to global warming. • Successful legal cases may have financial impact on those involved. However, risk is lower than in an ‘orderly transition’ scenario due to lack of new policy measures. • Reputational risk could negatively affect credit ratings and bond valuations.
Long Term: over 10 years	• Increased frequency and severity of extreme weather events. • More rapid and disruptive carbon price increases. • A large drop in demand for fossil fuels especially coal and oil. • Rapid scale-up of renewables leads to supply bottlenecks and companies competing for resources. • Failure to adopt **low-carbon technologies**.	• Business interruptions and impact on profits, economic impacts, damage to infrastructure and supply chain issues from extreme weather events. • **Carbon price** increases could have financial implications for global bond indices and make it harder for companies to manage risk. • Change in demand patterns could have potentially large financial repercussions at a global bond index level, depending on companies’ management of risk. • Significant economic and profit losses for companies that don't respond to technological changes. • Companies competing for limited resources could negatively affect valuations.

Terms explained

Carbon pricing

A carbon price is the price that a company would have to pay for each tonne of CO_2e emitted.

Low-carbon technologies

These are technologies that produce low levels of CO_2 emissions, or no net emissions. Examples include wind turbines, solar power, ground source heat pumps.

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Section 2 – Climate scenario and risk analysis: Corporate Bond

4°C HOTHOUSE WORLD SCENARIO

Global failure to act on climate change means emissions continue to grow at historical rates

	POTENTIAL RISKS	POTENTIAL FINANCIAL IMPACTS
Short Term: 1-3 years	• Low likelihood of financial risk from climate-related policy and legal challenge, technological change, market demand and movement or reputational factors for corporate bonds over the short term.	• Low financial risk over the short term for corporate bonds.
Medium Term: 4-10 years	• Increased frequency and severity of extreme weather events. • Failure to respond to required technological changes. • Emissions-intensive companies may face reputational risk from their inaction and continued contribution to global warming. • Legal cases against large businesses on their climate-related strategies and emissions.	• Emissions-intensive companies may face reputational risk from their inaction and continued contribution to global warming. • Successful legal cases may have financial impact on those involved. However, risk is lower than in an ‘orderly transition’ scenario due to lack of new policy measures. • Potential impact on performance of bonds owing to reputational damage or failure to take advantage of sustainable 'green' growth opportunities.
Long Term: over 10 years	• Increased frequency and severity of extreme weather events. The higher the warming, the higher the risk. • Rising sea levels and higher average temperatures. • Potential for mass climate-related migration, social unrest and political instability. • Some geographies could become uninsurable due to climate impacts.	• Business interruptions and impacts on profit, economic impacts, damage to infrastructure, supply chain issues, higher insurance premiums from extreme weather events. • Credit ratings of companies could be affected with large financial impacts at a global bond fund level. • Decreased economic productivity and output due to chronic climate change impacts. • Social unrest, as a result of lack of action against climate change, could become a material risk for companies. • General geopolitical risk of social backlash, where emissions-intensive companies could lose business and trust. • Some bonds may lose market value.

More information on our approach to climate risk management, governance and strategy, within pension funds is available in the supporting Legal & General entity report section of our website legalandgeneral.com/tcfd

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