

Credit Suisse Group (UK) Pension Fund

Climate change report

A report for members by the Trustee of the Credit Suisse Group (UK) Pension Fund (the “Fund”)

Fund year to 31 December 2024

Why have we written this report?



The UK was the first G20 country to make it mandatory for Britain's largest companies and financial organisations to disclose their climate-related risks and opportunities.

This is part of the government's commitment to making the UK financial system the greenest in the world.

This report provides members the opportunity to find out more about the work carried out by the Trustee in relation to climate change.

Until 31 July 2023, the trustee of the Fund was Credit Suisse First Boston Trustees Limited (the "Previous Trustee"). The Previous Trustee was replaced as trustee of the Fund with the appointment of a professional corporate sole trustee, Independent Trustee Services Limited ("ITS"). While for the entire period covered by this report ITS was the Trustee of the Fund, any reference to "Trustee" in this Report prior to their appointment on 1 August 2023 refers to the Previous Trustee.

It is the third climate change report by the Trustee of the Fund. We hope you find it informative and would welcome any feedback.

Signed Chris Martin

Date: 23 July 2025

Overview

The Trustee of the Credit Suisse Group (UK) Pension Fund views climate change as a risk to society, the economy and the financial system, but also recognises that reducing carbon emissions throughout the economy presents opportunities.

This report describes how the Trustee has identified, assessed and managed climate-related risks and opportunities to the Fund during the Fund year to 31 December 2024.

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Executive summary

Report

Department for Work and Pensions (“DWP”) Climate Change Regulations require trustees of large pension schemes (with assets over £1bn) to produce a TCFD report, which outlines how trustees identify, assess and manage climate-related risks and opportunities. These regulations align with the recommendations from the Task Force on Climate-related Financial Disclosures (“TCFD”) - an industry-led group that helps companies and their investors understand their financial exposure to climate risk). The aim is to improve both the quality of governance and level of action by trustees in response to climate change.

This report covers the period from 1 January 2024 to 31 December 2024, which represents the third year for which the Climate Change Regulations applied to the Fund.

Overview of DB Scheme

In September 2024, the Trustee secured the benefits of the DB section’s members by entering into a bulk annuity contract with Legal and General Assurance Society Limited (LGAS). As such, as at 31 December 2024, the Fund only held residual assets in a portfolio of gilts and money market assets, totalling approximately £322m. The Fund is expected to be broadly resilient to climate-related risks and has limited reliance on the sponsor covenant.

Conclusions specific to the TCFD’s thematic areas are summarised below:

Governance: Trustees received training over the year and continued to use the framework for considering climate-related factors established in the previous year.

Strategy: Regulatory guidance requires the Trustee to conduct scenario analysis to assess the potential impacts of climate-related risks and opportunities every 3 years or following a change in data availability, strategy, scenarios used or industry practice. The Trustee has reviewed the scenario analysis conducted over the previous Fund year and concluded that this remains appropriate. The actual and potential impacts of climate-related risks and opportunities on the DB investment strategy have been considered as part of this review. Overall, the effect of the climate scenarios on the DB section were identified to be minimal due to the de-risked and resilient nature of the investment strategy and the strong funding position. The Fund’s potential exposure to climate risk has been further reduced following the purchase of the bulk annuity policy in September 2024 covering the known DB liabilities.

Risk Management: Over the previous year the Trustee has implemented a number of processes and tools for identifying, assessing and managing climate related risks and opportunities for the Fund. This includes integrating climate change into the Fund’s risk management processes, including the Risk Register, covenant monitoring and investment monitoring.

Metrics and Targets: Four key metrics that were identified to measure climate-related risks. For the DB section, the Trustee had set a target for 80% of corporate bond investments to have set science-based targets by 2030 (no equities held). However following the purchase of a bulk annuity policy in September 2024, the DB section no longer holds any corporate bonds, therefore this target is now only applied to the DC section. Climate metrics were collected for the DB section’s residual assets and buy in policy, however given the material change to the investment strategy over the year, the Trustee has decided that a comparison with previous year’s metrics is not appropriate.

Executive summary

Overview of DC Scheme

The DC Section of the Fund has assets of c.£490m (as at 31 December 2024). The decrease in DC Section assets over the Fund year reflects the transfer of a portion of assets to a new pension arrangement in the Fidelity Master Trust during October 2024. This follows a comprehensive review of master trusts undertaken by the Trustee and Employer. Further transfers to the Fidelity Master Trust are ongoing and expected to take place over 2025/26. The majority of members and assets remaining in the Fund are invested in the default lifestyle strategy and alternative lifestyle strategies, with the asset allocation depending on the member's expected retirement date. While the Trustee has considered the range of funds available to members with climate-related risks in mind, the majority of the analysis conducted over the year has focused on outcomes arising from the Fund's "popular arrangements" - the Drawdown Lifestyle Strategy (default strategy) and the BlackRock Global 50:50 Index Fund¹.

Conclusions specific to the TCFD's thematic areas are summarised below:

Governance: The Trustee considers climate matters, with the support of its advisors. Trustees received training over the year and continued to use the framework for considering climate-related factors established in the previous year.

Strategy: Regulatory guidance requires the Trustee to conduct scenario analysis to assess the potential impacts of climate-related risks and opportunities every 3 years or following a change in data availability, strategy, scenarios used or industry practice. The actual and potential impacts of climate-related risks and opportunities have been considered as part of scenario analysis conducted in 2022 in the context of the range of funds available to members and for the default strategy. Overall, the effect of the climate scenarios on the DC section could have material impacts on the outcomes for members and is therefore an important area of focus. In particular, older members within 5 years of retirement are most exposed to transition risks in the event of a Paris disorderly pathway, market returns may be lower and more volatile in the medium term and physical risks are most prevalent in the failed transition pathway, impacting those members with 30 years or more to retirement. Given the change in membership composition as a result of the transfer of a portion of assets to Fidelity Master Trust during October 2024, the Trustee will conduct further analysis during the Fund year ending 31 December 2025. This also coincides with the requirement to carry out scenario analysis every 3 years.

Risk Management: The Trustee has implemented processes and tools for identifying, assessing and managing climate related risks and opportunities for the Fund. These include integrating climate change into the Fund's risk management processes, including the Risk Register, and investment monitoring. Over the Fund year covered by this report, the Trustee has monitored these processes. The time periods considered are cognisant of the wider dispersion in member retirement ages. The Trustee replaced 90% of the passive equity allocation within the default strategy with a low carbon equivalent equity allocation in March 2022. This marked a significant ongoing step to managing climate transition risks for members within the DC section. The Trustee has also recognised that engagement with investment managers to ensure they are exercising stewardship in support of net zero pathways is key to avoiding a failed transition.

Metrics and Targets: Four key metrics have been identified to measure climate-related risks. For the DC section, the Trustee has set a target for 80% of listed equity and corporate bond investments to have set science-based targets by 2030. These metrics and targets will be used to assess and manage relevant climate-related risks and opportunities over time. Both the metrics and target remain unchanged from the previous Fund year as the Trustee believes these continue to remain appropriate in measuring climate-related risks for the Fund.

¹ Popular arrangements are those with more than £100m invested or which account for 10% or more of total scheme assets.

Governance

The Fund's Trustee, advisers and investment managers all undertake climate-related governance activities on behalf of the Fund. These responsibilities are outlined below:

1. The Trustee's role

It is the Trustee Chair's responsibility to ensure that sufficient time is allocated for consideration and discussion of climate matters by the Trustee and its advisers. In broad terms, the Trustee is responsible for:

- ensuring the Trustee has sufficient knowledge and understanding of climate change to fulfil its statutory and fiduciary obligations and are keeping this knowledge and understanding up to date. This will include knowledge and understanding of the principles relating to the identification, assessment and management of climate-related risks and opportunities for the Fund;
- putting in place effective climate governance arrangements;
- identifying and assessing the main climate-related risks and opportunities for the Fund and documenting the management of these;
- incorporating climate-related considerations into strategic decisions relating to the Fund's investments and funding arrangements;
- incorporating climate-related considerations into the Fund's investment beliefs, investment policies, risk register and contingency planning and monitoring framework;
- allowing for climate-related considerations when assessing and monitoring the strength of the sponsoring employer's covenant;
- selecting and regularly reviewing metrics to inform its assessment and management of climate-related risks and opportunities, and setting and monitoring targets to improve these metrics over time where appropriate;
- ensuring that the Fund's actuarial, investment, covenant and legal advisers have clearly defined responsibilities in respect of climate change, that they have adequate expertise and resources, including time and staff, to carry these out, that they are taking adequate steps to identify and assess any climate-related risks and opportunities which are relevant to the matters on which they are advising, and that they are adequately prioritising climate-related risk;
- considering and documenting the extent to which the advisers' responsibilities are included in any agreements, such as investment consultants' strategic objectives and service agreements;
- giving appropriate instructions to the Fund's investment managers instructing them to manage climate-related risks and opportunities in relation to the Fund's investments, and to have appropriate processes, expertise and resources to do this effectively;
- communicating with Fund members and other stakeholders on climate change where appropriate, including public reporting in accordance with The Occupational Pension Schemes (Climate Change Governance and Reporting) Regulations 2021, the Occupational and Personal Pension Schemes (Disclosure of Information) Regulations 2013 (together "TCFD reporting") when required.

Training for Trustee

The Trustee has received training on the following items over the Fund year to 31 December 2024 to ensure the Fund was compliant with TCFD requirements:

- *Climate metrics and targets and how they compare with reporting in the previous TCFD report and explanations regarding changes in metrics.*

Climate beliefs and Statement of Investment Principles

- *The Trustee considers it is necessary to act in the best financial interests of Fund members and therefore it expects its investment managers to take account of financially material considerations (including climate change and other ESG considerations), taking into account the nature and time horizon of the investments.*

2. Other parties' and advisers' roles

In broad terms, the Fund's **actuarial adviser** is responsible, as requested by the Trustee, for:

- advising how climate-related risks and opportunities might affect the Fund's funding position over the short-, medium- and long-term and the implications for the Fund's funding strategy and long-term objectives;
- working with the Trustee's other advisers to assist the Trustee in incorporating climate change in its investment and covenant monitoring, and communication with stakeholders as appropriate.

In broad terms, the Fund's **investment adviser** is responsible, in respect of investment matters for both the defined benefit and defined contribution sections of the Fund, as requested by the Trustee, for:

- helping the Trustee to formulate its investment beliefs in relation to climate change and reflecting these in the Fund's investment policies and strategy;
- advising how climate-related risks and opportunities might affect the different asset classes in which the Fund might invest over the short-, medium- and long-term, and the implications for the Fund's investment strategy;
- advising the Trustee on determining short, medium and long-term time periods to be used when identifying climate-related risks and opportunities to the Fund;
- advising the Trustee on the appropriateness and effectiveness of the Fund's investment managers' processes, expertise and resources for managing climate-related risks and opportunities, given the Trustee's investment objectives and beliefs;
- assisting the Trustee in identifying and monitoring suitable climate-related metrics and targets in relation to the Fund's investments, including liaising with the Fund's investment managers regarding provision of the metrics;

- working with the Trustee's other advisers to assist the Trustee in incorporating climate change in its governance arrangements, risk register, contingency planning and monitoring framework and communication with stakeholders (including, but not limited to, its TCFD reporting) as appropriate;
- providing training and other updates to the Trustee on relevant climate-related matters;
- advising on the inclusion of climate change in the Fund's governance arrangements, risk register and contingency planning and monitoring framework, working with the Trustee and its other advisers as appropriate;
- assisting with the preparation of the Trustee's TCFD reporting, working with the Trustee and its other advisers as appropriate.

In broad terms, the Fund's **covenant adviser** is responsible, as requested by the Trustee, for:

- advising how climate-related risks and opportunities might affect the Fund's sponsoring employer over the short-, medium- and long-term;
- leading on the inclusion of climate change in the Fund's covenant monitoring, working with the Trustee and its other advisers as appropriate;
- working with the Trustee's other advisers to assist the Trustee in incorporating climate change in its governance arrangements, risk register, contingency planning and monitoring framework and communication with stakeholders (including, but not limited to, its TCFD reporting) as appropriate.

2. Other parties' and advisers' roles

In broad terms, the Fund's **legal adviser** is responsible, as requested by the Trustee, for:

- providing training and other updates to the Trustee on relevant climate-related legal matters;
- ensuring the Trustee is aware of its statutory and fiduciary obligations in relation to climate change and working with the Trustee's other advisers to ensure alignment between these obligations and:
 - any Trustee formulation of its investment beliefs in relation to climate change; and
 - the identification and monitoring of climate-related metrics and targets in relation to the Fund's investments.
- working with the Trustee's other advisers to assist the Trustee in incorporating climate change in its governance arrangements, risk register, contingency planning and monitoring framework and communication with stakeholders (including, but not limited to, its TCFD reporting) as appropriate;

Information provided to Trustee

The Trustee has received the following advice papers from its Investment Adviser over the year in relation to climate risks and opportunities:

- *A review of the Fund's climate metrics and performance against its target along with comparisons against year 2 reporting.*
- *High level review of DC Section managers' RI and climate approaches.*
- *Findings from a stewardship 'deep-dive' exercise on BlackRock's stewardship approach and areas where BlackRock were being asked to make improvements in.*
- *A subsequent presentation from BlackRock on its stewardship practices in March 2024.*

- where requested, assisting in the documentation of any contractual requirements to be included in the arrangements with the Fund's investment managers with respect to the governance, management and reporting of climate-related matters.

In broad terms, the Fund's **investment managers** are responsible for:

- identifying, assessing and managing climate-related risks and opportunities in relation to the Fund's investments, in line with the investment management arrangements agreed with the Trustee;
- exercising rights (including voting rights) attached to the Fund's investments, and undertaking engagement activities in respect of those investments, in relation to climate-related risks and opportunities in a way that seeks to improve long-term financial outcomes for Fund members;
- providing information to the Fund's investment adviser on climate-related metrics in relation to the Fund's investments, as agreed from time to time, and using its influence with investee companies and other parties to improve the quality and availability of these metrics over time.

Objectives set for advisers

The Trustee has set the following objective for its investment adviser to ensure that climate is being considered adequately.

- *Help the Trustee implement an investment strategy that integrates its policy on ESG (including climate change) and stewardship.*

1. Identification and assessment of climate-related risks and opportunities relevant to the Fund

- The Trustee has considered climate-related risks and opportunities over various time periods which it believes are most relevant to the Fund.
- The Trustee has selected short-term, medium-term and long-term time horizons over which to formally consider the impact of climate related risks and opportunities for both the DB and DC sections. The Trustee agreed to different time horizons for both DB and DC sections reflecting differences in membership profile and investment strategy. These are outlined in the tables below and on the next page, along with the Trustee's rationale for each.
- The key climate-related risks and opportunities relevant to the Fund that the Trustee has identified are also outlined in the table below.
- The Fund faces risks and opportunities from both the physical effects of climate change – for example rising temperatures and more extreme weather events – and from the effect of transitioning to a lower carbon economy to help mitigate the impacts of climate change – for example, government policies to reduce the use of fossil fuels, technological advantages in renewable energy, and shifts in consumer demand for 'greener' products.
- The Trustee identified and assessed the risks and opportunities to the Fund within each of these time horizons, as summarised below. These risks and opportunities are considered further in the following sections where we discuss further the Trustee's approach to investment, covenant and funding risks and opportunities.

DB section

Time period (set in March 2022)	Rationale for time period	Key risks	Key opportunities
Short term (next 3 years)	3 years – Aligned with funding discussions	Limited due to de-risked nature of the investment strategy, although some exposure to transition risks in the short term in the event of a Paris disorderly pathway	Engagement with investment managers on their climate approach
Medium term (next 8 years)	8 years – The period over which we expect the most impact on markets if the transition to low carbon is implemented as expected to meet the Paris goals. Also aligns with the Fund's credit allocation maturing	Transition to low carbon economy could have unpredictable outcomes	Continue to monitor position and consider if any further actions are required
Long term (next 15 years)	15 years – Assuming the Fund is run on for some time	Cost of buy-out may increase as insurers allow for climate-related risks in their pricing and reserving bases	Buy-out is expected to provide greater protection from climate risks for members' benefits

1. Identification and assessment of climate-related risks and opportunities relevant to the Fund (continued)

In practice, many of these risks for the DB Sections have been mitigated now that the Fund has purchased a bulk annuity policy to cover the Fund's liabilities.

The Trustee also identified the following risk relating to the insurance market and the potential implications for fully insuring liabilities:

- **Potential impact on insurers' capacity to meet benefit payments** – climate-related risks could increase the chance that insurers will be unable to pay members their full benefits as promised. This risk is mitigated, however, by regulation, insurer reserves and the financial services compensation scheme, which protect against insurer default.

DC section

Time period (set in March 2022)	Rationale for time period	Key risks	Key opportunities
Short term (next 5 years)	5 years - Major improvements in climate data quality are expected over this period	Older members within 5 years of retirement will be most at exposed to transition risks in the short term in the event of a Paris disorderly pathway	Low carbon investments can mitigate the impact of market shocks due to a market repricing event
Medium term (next 10 years)	10 years – Key period over which policy action will determine if Paris Agreement goals met	Transition risks may still be heightened over the medium term creating volatility. Market returns may be lower if disorderly transition harms economic performance	Impact investments can take advantage of the shift to a low carbon economy and may provide an enhanced source of return over this period
Long term (next 30 years)	30 years – Many economies are targeting to be net zero by this point	Physical risks are most prevalent in the failed transition pathway, impacting those members 30 years or more from retirement	Engagement with investment managers to ensure they are exercising stewardship in support of net zero pathways is key to avoiding a failed transition

The potential impact of climate-related risks and opportunities on the DB and DC Sections of the Fund was explored by the Trustee using a range of tools as set out on page 14 of this report. One such tool, the results of which are set out in the section that follows, was undertaking climate scenario analysis which shows how the DB and DC Sections of the Fund might be affected under a range of climate scenarios.

2. Climate scenario analysis

Scenario analysis is a tool for examining and evaluating different ways in which the future may unfold. At the 7 March 2022 meeting, the Trustee used scenario analysis to consider how climate change might affect the Fund's investment and funding strategies. With the support of its investment adviser, the Trustee carried out a scenario analysis based on macro-economic data at 30 June 2021, calibrated to market conditions at 30 September 2021 (for DC) and 31 December 2021 (for DB).

The Trustee, along with its investment adviser, decided not to re-run the scenario analysis during 2024. The Trustee has reviewed the most recent climate scenario analysis (conducted in 2022) and has determined that, although there were enhancements to the underlying approach and methodology, conclusions highlighted in the scenario analysis set out in last year's report would remain largely unchanged. The Trustee also notes that there has been widespread discussion and criticism of some scenario analysis models, and believes it is valuable to allow further time for new developments on best practice in climate scenario analysis modelling to come into place before re-running its scenario analysis. The Trustee also acknowledges that there are limitations to what climate scenario analysis modelling can capture.

Therefore, the analysis shown in this report is the same as that shown in the previous year's TCFD report.

The three climate scenarios considered by the Trustee were as follows:

1. Failed Transition

- Under this scenario it is assumed that the Paris Agreement Goals are not met; only existing climate policies are implemented, and global temperatures rise significantly.
- The Trustee chose to consider this scenario to explore what might happen to the Fund's finances if carbon emissions continue at current levels, resulting in significant physical risks from changes in the global climate that disrupt economic activity.

2. Paris Orderly Transition

- Under this scenario it is assumed that the Paris Agreement Goals are met through rapid and effective climate action, with a smooth market reaction to the changes implemented.
- The Trustee chose to consider this scenario to see how the Fund's finances could play out if carbon emission reduction targets are met in line with the Paris Agreement, meaning that the economy makes a material shift towards a low carbon economy by 2030.

3. Paris Disorderly Transition

- Under this scenario the same policy, climate and emissions outcomes are assumed as the Paris Orderly Transition, but financial markets are initially slow to react and then overreact.
- The Trustee chose to consider this scenario to look at the potential impact on the Fund if carbon emission reduction targets are met in line with the Paris Agreement, but financial markets are volatile as they adjust to a low carbon economy.

The Trustee acknowledges that many alternative plausible scenarios exist but found that these were a helpful set of scenarios to explore how climate change might affect the Fund in the future.

To provide further insight, the Trustee also compared the outputs under each scenario to a 'climate uninformed base case', that makes no allowance for either changing physical or transition risks in the future.

The results of the analysis are presented on the next pages. For further details on the climate scenarios and the modelling, see Appendix 2.

Given the changes that occurred over the Fund Year in respect of both the DB and DC Sections of the Fund the Trustee will conduct further analysis during the following Fund Year. This also coincides with the requirement to carry out scenario analysis every 3 years.

2. Climate scenario analysis (continued)

The results of the analysis were as follows:

DB section

- With the investment strategy built to closely match the liabilities, any impacts from climate change on the assets are, on average, expected to be mirrored by changes in the measure of the liability.
- To the extent that market impacts do impact the funding position, these impacts would not be expected to be sufficiently significant to push the Fund off its long term journey.
- Overall, the effect of the climate scenarios on the DB section was identified to be minimal due to the de-risked and resilient nature of the investment strategy.
- The Fund's potential exposure to climate risk has been further reduced following the purchase of the bulk annuity policy in September 2024 covering the known DB liabilities, reducing the risk that poor investment performance could result in the Fund not being able to make benefit payments as they fall due. The Trustee will continue to monitor the impact of climate-related risks on the Fund's residual assets.
- The Trustee also considered the impacts of climate change on life expectancy, and how this could affect the DB section. The Trustee noted the uncertainty in this area – see page 36 for further details.

DC section

- The scenario analysis looked at the retirement outcomes (in terms of size of their projected retirement pot) for individual members of different ages who are invested in the default strategy, the Drawdown Lifestyle Strategy and the BlackRock Global 50:50 Index Fund. The default strategy and the BlackRock Global 50:50 Index Fund have been assessed to be the only “popular arrangements”¹ within the DC Section.
- The analysis highlighted that DC section members will be subject to climate risk of varying degrees dependent on both the scenario and the age of the member. Analysis was conducted for the default strategy for members at four different ages to reflect the different time to target retirement age (and therefore level of climate risk) at different points in the lifestyle.
- Climate risks are expected to have a greater impact on return-seeking assets, such as equities. The default strategy has been designed in a way that reduces exposure to these types of assets as members approach retirement. As such, climate risks are also expected to reduce the closer a member is to retiring.
- The next page includes details of the impact under each scenario for the DC section and the percentage change in the value of members' pots at retirement, relative to a climate uninformed base case scenario.

¹ Popular arrangements are those with more than £100m invested or which account for 10% or more of total scheme assets.

2. Climate scenario analysis (continued)

- The tables to the right show the percentage change in the value of members' pots at retirement, relative to the climate uninformed scenario, across the three different scenarios and different starting ages. This climate uninformed scenario assumes no increase of physical risks due to climate change and does not make any explicit assumptions about the transition to a low carbon economy. A target retirement age of 60 has been assumed which is in line with the most popular selected retirement age in the Fund.
- The main potential impacts are as follows, noting that the best outcome still reflects a reduction in pot size versus the climate uninformed base case scenario:
 - The Paris Orderly Transition led to the best outcome for those members within 20 or 30 years from retirement, as in this scenario physical climate risks are moderate, and transitional climate risks are well managed.
 - The Paris Disorderly Transition includes a market shock in the short term which impacts return seeking assets the most. For younger members, whilst in a worse off position than under the Paris Orderly Transition scenario, there is still time for return seeking assets to recover through future investment returns. As c95% of the Fund's DC Section's members are deferred, it was assumed that sample members were deferred and hence their pot sizes will grow with investment returns only ie not with new contributions. Whilst members within 10 years of retirement have less time for return seeking assets to recover following a potential market shock, they hold a low and decreasing allocation to return-seeking assets so they are less impacted (in terms of percentage change in pot size at retirement) than younger members under this scenario.
 - Members face limited short term impacts of climate change as a result of a failed transition, but larger long-term effects, as it assumes increasingly severe physical impacts emerge over time. This scenario therefore has a larger impact on younger members, who remain invested in the Plan for longer. It is assumed that expected losses as a result of a failed transition don't manifest themselves to a great degree for those members within 10 years of retirement.

Default investment strategy (Change in projected at-retirement pot size relative to the climate uninformed scenario¹)

Scenario	Member aged 30	Member aged 40	Member aged 50
Years to target retirement age	30	20	10
Paris Orderly Transition outcome	-9.2%	-6.2%	-4.6%
Paris Disorderly Transition outcome	-19.8%	-16.3%	-11.8%
Failed Transition outcome	-32.2%	-21.0%	-3.2%

BlackRock Global 50:50 Index Fund (Change in projected at-retirement pot size relative to the climate uninformed scenario¹)

Scenario	Member aged 30	Member aged 40	Member aged 50
Years to target retirement age	30	20	10
Paris Orderly Transition outcome	-10.2%	-6.9%	-5.2%
Paris Disorderly Transition outcome	-20.6%	-17.4%	-14.0%
Failed Transition outcome	-33.4%	-28.6%	-4.8%

¹ This scenario analysis is based on macro-economic data at 30 June 2021, calibrated to market conditions at 30 September 2021.

Risk Management

1. Processes for identifying and assessing climate-related risks

- The Trustee has implemented a number of processes and tools for identifying, assessing and managing climate related risks and opportunities for the Fund, including:
 - attending climate related training to understand how climate-related risks might affect pension schemes and their investments in general terms;
 - undertaking climate scenario analysis which shows how the Fund's assets and liabilities might be affected under a range of climate scenarios;
 - receiving advice on how the sponsoring Employer might be impacted by climate-related factors and the implications for its ability to provide financial support to the Fund;
 - reviewing its investment adviser's assessments of the Fund's current and prospective investment managers' climate practices, including how they incorporate climate-related factors into their investment processes and how effectively they manage climate related risks;
 - ensure good stewardship practices are in place; and
 - monitor a range of climate-related metrics in relation to the Fund's assets.

In addition, the Trustee expects its investment managers to identify, assess and manage climate-related risks to the Fund's assets on a day-to-day basis. The Trustee invites managers to periodically attend meetings to provide updates on their approaches to identifying and assessing climate-related risks.

2. Investment manager assessments

2a. Review of managers' approaches to climate risks and opportunities

- LCP presented its high-level review of the Fund's DC Section investment managers' climate credentials in March 2024. This review included detailed analysis on the climate-risk management and alignment with net zero goals of each of the fund managers invested as part of the popular DC arrangements (ie funds that have more than £100m invested or account of 10% or more of total Fund assets). The review also included key actions for the Trustee to monitor the fund managers on.
- Overall, the Trustee was satisfied that its managers had embedded climate considerations into their philosophy and management processes and that all the managers were taking steps to improve their climate capabilities. However, the Trustee did note that all managers had areas for improvement and agreed to engage with BlackRock in particular given it holds the majority of the DC Section's assets.
- Following a review of the climate metrics and targets during the previous Fund year, the Trustee met with BlackRock in March 2024. This was a follow up as part of the ongoing monitoring to further understand its stewardship practices, with a focus on its climate practices. Following a detailed review of the voting, engagement, stewardship and other RI practices of BlackRock, LCP set-out a list of key "asks" for BlackRock to improve its stewardship practices which the Trustee supports.

Risk Management

These asks, which were shared with BlackRock prior to the meeting, are as follows:

- Asking BlackRock for more narrative driven reporting on its engagement similar to its voting bulletins.
- Asking BlackRock to increase its consideration of systemic risks and to make specific demands of portfolio companies to address these risks.

As part of its presentation, BlackRock provided several examples of its engagement with portfolio companies and any positive outcomes achieved as a result of these engagements. BlackRock also acknowledged that they are looking to improve reporting for their investors.

The Trustee noted that BlackRock articulated its position much better as part of the presentation compared to its regular reporting. The Trustee agreed to continue to engage through LCP with BlackRock to improve its reporting.

LCP did not identify any significant concerns with the Fund's managers' climate approaches at the current time.

2b. Changes to investment mandates

If the Trustee identifies any concerns with the way one of the Fund's managers addresses climate related risks and opportunities, it will initially engage with the manager to raise concerns and seek improvements. If the manager does not sufficiently improve (or provide a clear improvement plan), the Trustee may switch to a different manager. Over the year under review no manager changes were made due to concerns over their climate approaches, although as mentioned previously and in the next section, discussions were held with managers regarding planned improvements to their processes during the Fund year.

2c. Engagement and other stewardship activities

The Trustee expects the Fund's investment managers to engage with investee companies on climate-related (and other) matters. The Trustee generally believes that engaging with companies is more effective at encouraging change than selling the Fund's investments in those companies.

The review of managers' climate approaches showed that all of the Fund's managers frequently engaged with portfolio companies on climate change.

In November 2022, the Trustee reviewed its stewardship priorities for the Fund, and agreed on human rights, corporate transparency, business ethics and climate change as priorities.

In February 2023, based on the results of the initial high level reviews of the Fund's investment managers' climate credentials, the Trustee followed up with the equity and corporate bond managers (L&G and BlackRock) used within the DC Section on engagement matters related to climate-related risks. This included, climate scenario analysis, alignment metrics, climate change revenue and coverage of reporting total emissions. The Trustee was satisfied with the managers' responses, noting the limitations as a result of the passive nature of these funds. As mentioned in the previous section the Trustee also engaged with BlackRock during the Fund Year in March 2024 to encourage improvements in its engagement practices, focussed on climate change.

More information on the Trustee's stewardship activities can be found in its Implementation Statement: [Library | Credit Suisse Group \(UK\) Pension Fund \(mycspensionplace.co.uk\)](#)

Risk Management

3. Monitoring climate-related risks to the Fund

The Trustee has integrated climate change into the Fund's risk management processes, including the Risk Register, covenant monitoring and investment monitoring.

3a. Risk Register

The Trustee maintains a Risk Register which covers all aspects of the Fund's activities. It is reviewed in detail by the Trustee.

Each risk is rated in terms of its impact and likelihood, both on a scale of 1-10, and these figures are multiplied together to give an overall risk score out of 100. For the avoidance of doubt the lower the number, the lower the risk.

The Fund's Risk Register is reviewed regularly to consider if any further risks need adding or amending, to assess any significant priority risks to manager and to ensure regular action is maintained in monitoring and mitigating these risks.

The Trustee's current assessment, based on consideration of their impact and likelihood, is that climate-related risks are not immaterial and therefore should continue to be monitored in accordance with the current monitoring processes.

3b. Investment monitoring

When appropriate, the Trustee invites the Fund's investment managers to present at Trustee meetings. During these meetings, the Trustee discusses climate change with the managers, to increase its understanding of the Fund's climate related risks and challenge the adequacy of the steps being taken to manage them.

Additionally, the Trustee has chosen four climate-related metrics to help it monitor climate-related risks to the Fund. Please see next section of report for further details.

The Trustee has set climate change as one of its stewardship priorities. As the majority of the DC Section's assets are invested passively, stewardship is the main tool the underlying managers can use to address climate related risks and opportunities. As mentioned in section 2a and 2b, the Trustee engaged with BlackRock encourage improvement in its stewardship practices.

Metrics and Targets

1. Metrics

The Trustee has chosen four climate-related metrics to help it monitor climate-related risks and opportunities to the Fund. These are listed below and reported in this section of the report for the DB and DC sections (as far as the Trustee was able to obtain the data).

Metric	High-level methodology
Absolute emissions: Total greenhouse gas emissions	The sum of each company's most recent reported or estimated greenhouse gas emissions attributable to the Fund's investment in the company, where data is available. Emissions are attributed evenly across equity and debt investors. Reported in tonnes of CO ₂ equivalent. This methodology was chosen because it is in line with the statutory guidance.
Emissions intensity: Carbon footprint	The total greenhouse gas emissions described above, divided by the value of the invested portfolio in £m, adjusted for data availability. Emissions are attributed evenly across equity and debt investors. Reported in tonnes of CO ₂ equivalent per £1m invested. This methodology was chosen because it is in line with the statutory guidance.
Portfolio alignment: Science-based targets (SBT)	The proportion of the portfolio by weight of holdings with science-based targets to reduce their greenhouse gas emissions, demonstrated by a target validated by the Science Based Targets initiative (SBTi) or equivalent. This measures the extent to which the Fund's investments are aligned to the Paris Agreement goals. Reported in percentage terms. The Trustee chose this "binary target" measure because it is the simplest and most robust of the various portfolio alignment metrics available.
Data quality	The proportion of the portfolio for which greenhouse gas emissions data is reported, estimated or unavailable. This approach was chosen because it is in line with the statutory guidance.

As part of year 1 and 2 TCFD reporting, following reviews of the metrics data, the Trustee engaged with the Fund's managers on areas where it felt there was room for improvement. The Trustee was comfortable with the responses received and noted that data coverage for climate metrics was expected to improve over time.

DC Section:

The following improvements in data have been observed as part of Year 3 reporting:

- Data coverage has improved across scope 1, 2 and 3 greenhouse gas (GHG) emissions.
- Carbon footprint across Scope 1 and 2 for all funds being reported either remained consistent or reduced over the period.
- The proportion of assets with science-based targets has increased.

DB Section:

- The DB Section completed a full buy-in on 25 September 2024. The remaining invested assets consist of two gilts, and cash. Given the material change to the investment strategy over the year, the Trustee has decided that a comparison with previous year's metrics is not appropriate. Insurer solvency in the face of climate events is now a more relevant consideration than comparing metrics against the previously held portfolio.

Metrics and Targets

1. Metrics – DB Section

The data has been calculated using portfolio holdings as at 30 September 2024, using the most recent data available in November 2024.

Portfolio holdings		Allocation at 30 September 2023		Allocation at 30 September 2024	
		£m	%	£m	%
Global Buy & Maintain Credit	PIMCO	67.0	6.0%	-	-
Global Buy & Maintain Credit	Insight	60.6	5.4%	-	-
Global Buy & Maintain Credit	M&G	57.8	5.1%	-	-
Bonds (unhedged)		185.4	16.5%	-	-
Currency hedge	Insight	-3.3	-0.3%	-	-
Global bond hedge	Insight	9.4	0.8%	-	-
Bonds (inc impact of hedges)		191.5	17.1%	-	-
Liquidity / Cash	Insight / Northern Trust	25.4	2.3%	299.3	24.3%
Liability driven investment	Insight	905.5	80.7%	-	-
Gilts	Insight	-	-	27.4	2.2%
Buy-in asset	LGAS	-	-	907.0	73.5%
Total DB Section		1,122.4	100.0%	1,233.7	100.0%

Notes:

Asset valuations provided by investment managers

Buy-in value is an estimate provided by the Scheme Actuary

Cash held in Trustee bank account not included

Figures may not sum due to rounding

Asset class (% DB assets)	Details of missing data and steps being taken to address it
Gilts	Full coverage
Buy-in	The data coverage is 100% for scope 1 & 2, which is positive. However, coverage for scope 3 is 0%, which the Trustee would like to see improved.
Cash	Metrics not reported on grounds of lack of methodology

Methodology for calculating Gilt metrics

Gilts metrics are calculated on a different basis to other asset classes, so cannot be compared with those of the buy-in.

The emissions intensity has been calculated as "total greenhouse gas emissions produced in the UK" divided by "UK GDP using PPP methodology" using publicly available data sources.

Total greenhouse gas emissions have been calculated as "value of your investment in gilts" multiplied by "emissions intensity". Note that there can be double counting across the portfolio where UK country emissions include UK company emissions already accounted for within the buy-in's credit exposure.

Metrics and Targets

1. Metrics – DB Section (continued)

Data shown is as at 30 September 2024. The DB Section completed a full buy-in on 25 September 2024. The remaining invested assets consist of two gilts, and cash. Given the material change to the investment strategy over the year, the Trustee has decided that a comparison with previous year's metrics is not appropriate. **Hence, we have not provided the previous year's metrics in the below table.**

Manager, asset class and valuation (£m)		Scope 1 and 2 emissions (for holdings with data)				Scope 3 emissions (for holdings with data)				Portfolio alignment	Data source	Date of portfolio value and holdings
		Coverage	Total GHG emissions (tCO ₂ e)	Carbon footprint (tCO ₂ e/£m)	Data quality (% reported / estimated / unavailable)	Coverage	Total GHG emissions (tCO ₂ e)	Carbon footprint (tCO ₂ e/£m)	Data quality (% reported / estimated / unavailable)	Proportion with SBT (%)		
Gilts ¹	27.4	100%	4,649	170	100 / 0 / 0	100%	3,720	136	100 / 0 / 0	100% ²	See below	30/09/24
Legal & General Buy-in ³	907	100%	46,257	57	39 / 61 / 0	0%	Not available	Not available	0 / 0 / 100	N/A ⁴	See below	31/12/23

Source: Legal & General, LCP.

LCP Sources for Gilt metrics below. LCP has calculated metric figures in line with DWP guidelines.

GHG Emissions – Climate Watch (climatewatchdata.org)

Government debt – OECD Data (data.oecd.org)

GDP (PPP adjusted) – World Bank (data.worldbank.org)

UK government debt – Office for National Statistics (ons.gov.uk)

¹Details on the methodology used to calculate Gilt metrics are found on page 3.

²The UK has a net zero by 2050 target written into law, with carbon budgets based on advice from the independent Committee on Climate Change, so UK government bond exposure has been treated as having a credible science-based target.

³Legal and General has provided data for its annuity portfolio excluding cash and derivatives. It uses proxies where complete data is not available. The Scheme's total emissions have been estimated as the carbon footprint per £m invested multiplied by the value of the Scheme's policy. For sovereign bonds, a normaliser has been used consistent with EVIC for corporate bonds and equities. The policy value is an estimate that has been provided by the Scheme Actuary.

⁴Legal and General has stated that it no longer collects data for science-based target alignment.

Metrics and Targets

1. Metrics – DB Section (continued)

Below we set-out insights the Trustee obtained from reviewing the climate metrics data and next steps it is considering, along with their priority level.

Asset class	Interpreting the metrics	Next steps and priority level
Gilts	DWP requires disclosure of GHG emissions, but they are not a good indication of climate risk exposure for gilts.	<p>We do not recommend any action to improve data quality.</p> <p>Low – In engagement with Insight, the Trustee focuses on:</p> <ul style="list-style-type: none"> • Their policy advocacy, particularly with the UK government (including their approach to monitoring and engaging on emissions targets) • How they monitor and manage climate-related risks to counterparties • What information they can provide to help you understand and monitor your climate-related risk exposure through counterparties
	As the gilts allocation is driven by the Fund's objective to broadly match the estimated sensitivities of the residual liabilities, climate-related factors are not important considerations.	
	Nonetheless, the UK government's climate change policies will have an important economic influence on the Fund.	
Buy-in	DWP requires disclosure GHG emissions, but they do not reflect the Fund's climate risk exposure.	<p>Low – In engagement with L&G, the Trustee focuses on:</p> <ul style="list-style-type: none"> • Provision of scope 3 emissions data • Exploring using a potential equivalent for SBTi alignment data
	The Fund's exposure lies in tail risk scenarios where climate factors affect the insurer's solvency.	
	The insurer's climate risk management practices are therefore more relevant.	

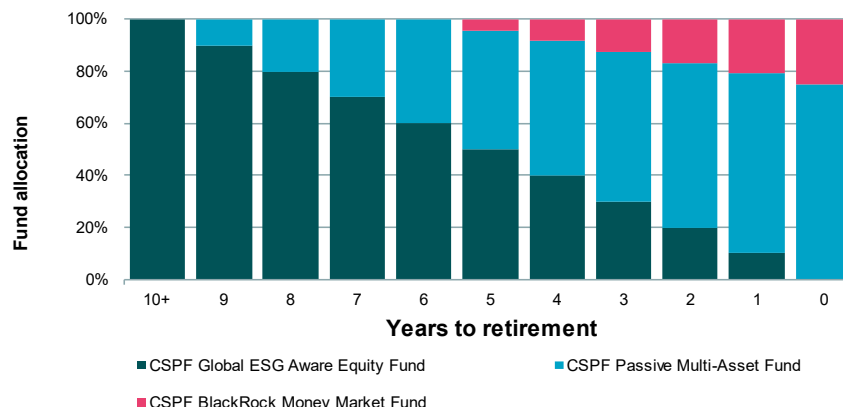
Metrics and Targets

1. Metrics – DC Section

Portfolio holdings	Allocation as at 30 September 2024 ¹	
	£m	%
BlackRock Global ESG Aware Equity Fund	664.2	53.4%
BlackRock Over 15 Year Gilts Index Fund	6.2	0.5%
BlackRock Money Market Fund	59.7	4.8%
Passive Multi Asset Fund	185.4	14.9%
BlackRock Global 50/50 Index Fund	169.2	13.6%
BlackRock European Equity Index Fund	17.6	1.4%
BlackRock Japanese Equity Index Fund	5.0	0.4%
BlackRock Over 5 Years Index Linked Gilt Index Fund	3.5	0.3%
BlackRock Pacific Rim Equity Index Fund	12.0	1.0%
BlackRock UK Equity Index Fund	16.1	1.3%
BlackRock US Equity Index Fund	63.8	5.1%
HSBC Islamic Fund	13.3	1.1%
L&G Global Emerging Markets Index Fund	10.9	0.9%
L&G Overseas Bond Fund	1.8	0.1%
L&G FTSE4Good UK Equity Index Fund	2.5	0.2%
Fidelity Global Equity Fund	6.8	0.5%
Fidelity Corporate Bond Fund	4.9	0.4%
Threadneedle Pooled Property Fund	1.7	0.1%
Fidelity Global ESG Focussed Equity Fund	0.3	<0.1%
Total DC Section	1,244.7	100.0%

The Funds in bold are utilised within the lifestyle strategies. The Global ESG Aware Equity Fund invests 90% in the BlackRock Low Carbon Equities Fund and 10% in the BlackRock Emerging Market Equities Fund. The Passive Multi-Asset Fund invests 60% in the Global ESG Aware Equity Fund, 10% in the BlackRock Corporate Bonds Fund, 10% in the L&G Overseas Bond Fund, 10% in the BlackRock Over 15 Year Gilts Index Fund and 10% in the BlackRock Over 5 Years Index Linked Gilt Index Fund.

CSPF Drawdown Lifestyle Strategy



As at 30 September 2024, the majority of DC assets (c.74%) were invested in funds used in the default strategy and alternative lifestyle strategies, with the assets allocated depending on members' expected retirement dates (as shown in the chart above for the default strategy). A further c.14% of DC assets were invested in the BlackRock Global 50:50 Index Fund on a self-select basis.

We have assessed "popular arrangements" to be an investment option with more than £100m invested or which accounts for 10% or more of total scheme assets.

The Trustee has not collected metrics for the funds that do not have at least £100m or 10% of DC assets, as they did not feel it was proportionate to do so. This is in line with the guidance issued by the Department for Work and Pensions on including data for "popular arrangements".

The metrics on the following slide are reported at the underlying fund level, details of which are provided under the table opposite.

¹Please note that in October 2024, a proportion of the Fund was moved to the Fidelity Master Trust. Hence asset values since this reporting date are now significantly lower.

Metrics and Targets

1. Metrics – DC Section (continued)

There are two popular arrangements within the DC section of the Fund: the default strategy and the BlackRock Global 50:50 Index Fund.

Reported climate data for the popular arrangements within the listed equities and corporate bonds asset classes is shown in the table below.

Climate data reported in respect of government bonds will be estimated as not all governments report this at present. This is shown on page 8. At present, there are gaps in reporting climate data for cash funds. The Trustee, with help from its investment consultant, continues to work with the Fund's investment managers to improve data reporting over time.

Data shown is as at 30 September 2024. Data reported as at 30 September 2023 has also been included in brackets in the table for comparison purposes. Where there have been improvements in the climate metric or where the metric has remained at a level that cannot be improved as at 30 September 2024 compared with data reported as at 30 September 2023, this is shown in **green** text. Where the climate metric has worsened, this is shown in **red** text.

Asset class	Manager, asset class and valuation (£m)		Scope 1 and 2 emissions (for holdings with data)			Scope 3 emissions (for holdings with data)			Portfolio alignment	Data source ³	Date of portfolio value and holdings
			Coverage	Total GHG emissions (tCO ₂ e)	Carbon footprint (tCO ₂ e/£m)	Coverage	Total GHG emissions (tCO ₂ e)	Carbon footprint (tCO ₂ e/£m)	Proportion with SBT (%)		
Listed equities	BlackRock Low Carbon Equities ¹	697.9	£696.0m / 100%	7,837	11	£696.0m / 100%	60,651	99	50%	BlackRock	30/09/2024
		(623.1)	(£621.1m / 100%)	(10,996)	(18)	(£621.1m / 100%)	(176,943)	(285)	(44%)	(MSCI)	(30/09/2023)
	BlackRock Emerging Market Equities ¹	78.2	£77.1m / 99%	14,836	193	£77.3m / 99%	50,214	795	18%	BlackRock	30/09/2024
		(69.2)	(£67.5m / 97%)	(13,047)	(193)	(£67.5 / 97%)	(47,036)	(697)	(15%)	(MSCI)	(30/09/2023)
	BlackRock Global 50:50 Equities ²	169.2	£164.0m / 97%	12,444	75	£164.1m / 97%	110,308	728	51%	BlackRock	30/09/2024
		(163.4)	(£156.9m / 96%)	(12,679)	(80)	(£156.9m / 96%)	(114,098)	(727)	(44%)	(MSCI)	(30/09/2023)
Corporate bonds	BlackRock Corporate Bonds ¹	18.5	£16.8m / 91% ⁴	387	43	£16.7m / 90% ⁴	3,368	391	28%	BlackRock	30/09/2024
		(15.1)	(£7.4m / 49%)	(319)	(43)	(£7.4m / 49%)	(2,601)	(351)	(24%)	(MSCI)	(30/09/2023)

Source: BlackRock, MSCI, LCP.

See the appendix for more details, including how to interpret data where coverage is less than 100%. Coverage has been rounded to the nearest percent and therefore where coverage is stated as 100% there may be a small amount of assets not covered.

¹This fund is used in the default strategy.

²This fund is available in the self-select fund range only.

³Data has been sourced directly from BlackRock. This may cause some material differences in metrics compared to those of the previous year, which were calculated by LCP using MSCI data.

⁴The change in coverage for the BlackRock Corporate Bond Fund marks a difference in calculation methodology.

Metrics and Targets

1. Metrics – DC Section (continued)

Asset class	Manager, asset class and valuation (£m)		Scope 1 and 2 emissions (for holdings with data)			Scope 3 emissions (for holdings with data)			Portfolio alignment	Data source	Date of portfolio value and holdings
			Coverage	Total GHG emissions (tCO ₂ e)	Carbon footprint (tCO ₂ e/£m)	Coverage	Total GHG emissions (tCO ₂ e)	Carbon footprint (tCO ₂ e/£m)	Proportion with SBT (%)		
Government bonds	BlackRock Over 5 years Gilts ¹	22.0	£22.0m / 100%	2,970	135	£22.0m / 100%	1,869	85	100% ²	LCP calculations	30/09/2024
		(15.1)	(£15.1m / 100%)	(2,052)	(136)	(£15.1m / 100%)	(1,291)	(85)	(100% ²)	(LCP calculations)	(30/09/2023)
	BlackRock Over 15 Years Gilts ¹	24.7	£24.7m / 100%	3,335	135	£24.7m / 100%	2,099	85	100% ²	LCP calculations	30/09/2024
		(15.1)	(£15.1m / 100%)	(2,052)	(136)	(£15.1m / 100%)	(1,291)	(85)	(100% ²)	(LCP calculations)	(30/09/2023)
	L&G Overseas Bonds ^{1,4}	20.4	£18.5m / 91%	4,201	227	£18.5m / 91%	1,504	81	32% ³	LCP calculations	30/09/2024
		(15.1)	(£13.8m / 91%)	(3,149)	(228)	(£13.8m / 91%)	(1,130)	(82)	(33% ³)	(LCP calculations)	(30/09/2023)
Cash	BlackRock Money Market ^{1,5}	59.7	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable	30/09/2024
		(52.7)									(30/09/2023)

Source: LCP calculation based on publicly available data. See the appendix for more detail on how the data has been calculated.

¹This fund is used in the default strategy.

²Our estimates assume gilts to have a science-based target. This is because the United Kingdom has net zero emissions by 2050 written into law, with interim carbon budgets set based on advice from the independent Committee on Climate Change.

³Our estimates assume government bonds issued by a country (for which scope 1, 2 and 3 coverage data is available) with a legally binding commitment and regular carbon budgets are equivalent to an SBT.

⁴In the previous TCFD report, the carbon footprint figure had been understated. For our 2024 reporting, we have restated the carbon footprints using an updated methodology based on the Gross Domestic Product ("GDP") of the countries that issue the bonds, rather than the countries' total government debt.

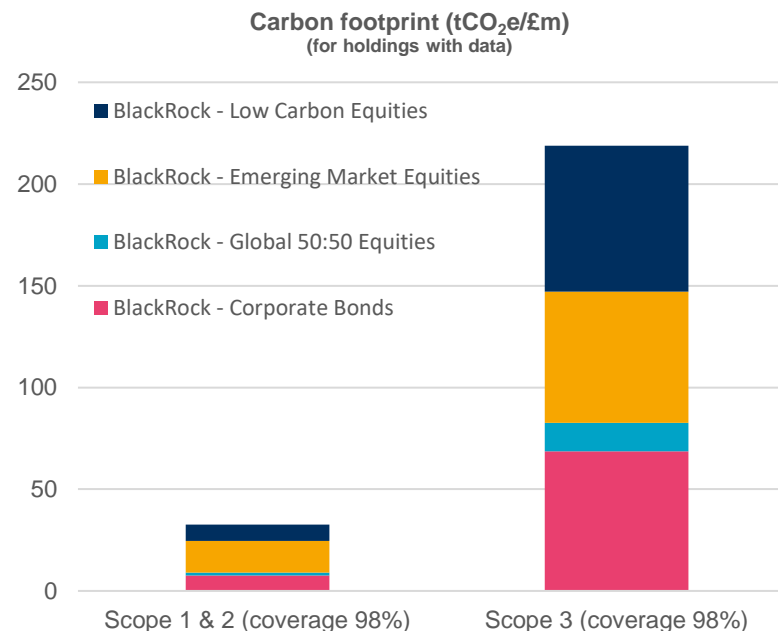
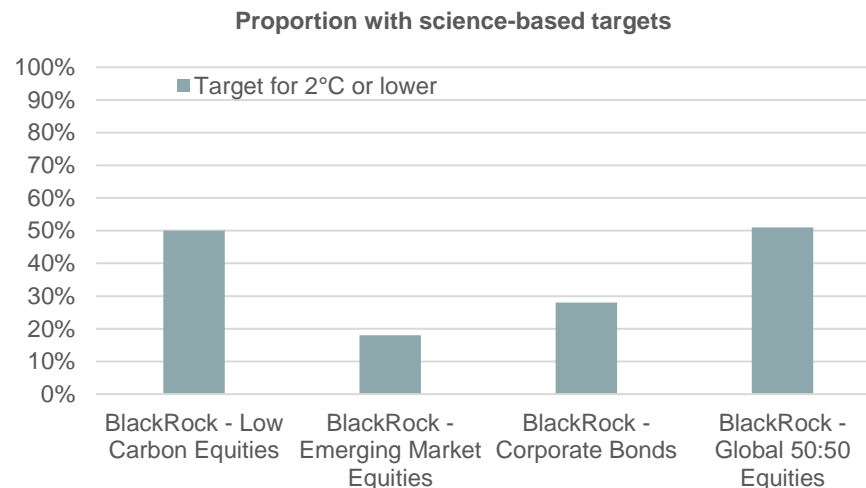
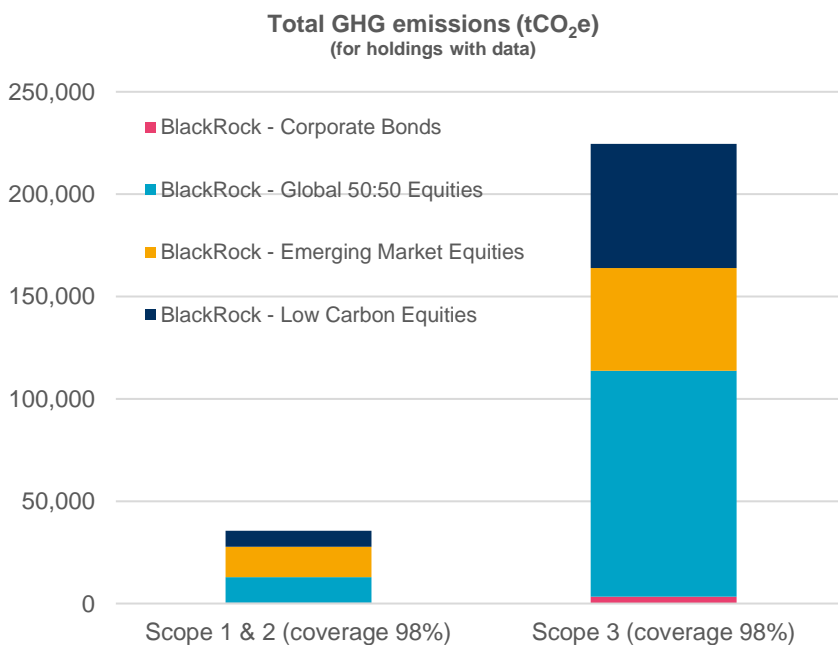
⁵At present, there are gaps in reporting climate data for cash funds as the methodology for collating data in this asset class has not been established.

Metrics and Targets

1. Metrics – DC Section (continued)

The charts on this page summarise the climate metrics data in respect of listed equities and corporate bonds.

Government bond metrics are calculated on a different basis to other asset classes, so cannot be compared with listed equities and corporate bonds and hence we have not aggregated with them. We show data for Government bonds on the following page.



Metrics and Targets

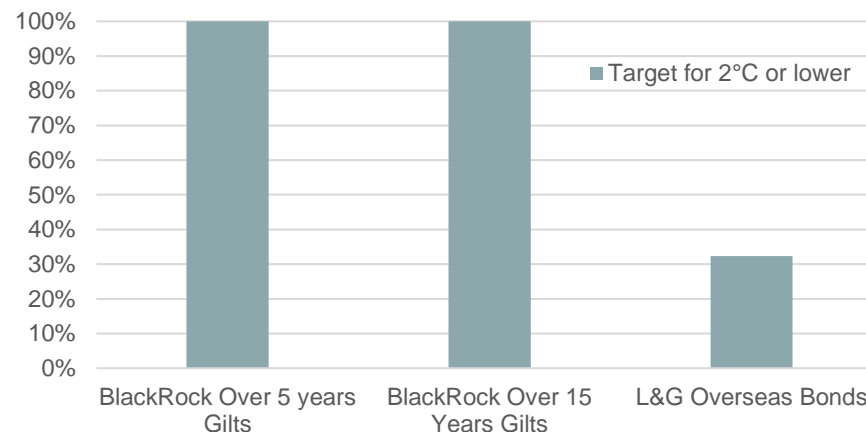
1. Metrics – DC Section (continued)

The charts on this page summarise the climate metrics data estimated for government bonds.

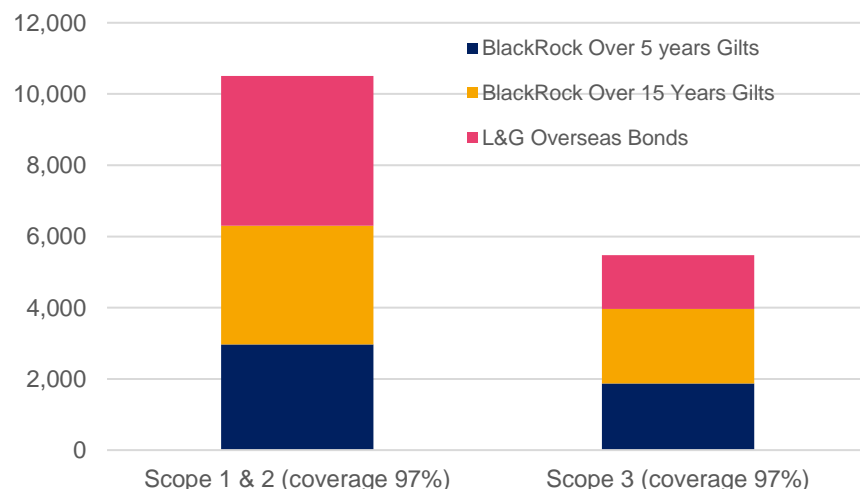
Scope 3 emissions are those embodied in goods and services imported by the country and consumed within the country, whereas Scope 2 emissions are those produced in the country. Unlike listed equities and corporate bonds, Scope 3 emissions for government bonds are estimated to be lower than Scope 2 emissions.

Proportion of government bond funds with science-based targets assume government bonds issued by a country with a legally binding commitment and regular carbon budgets are equivalent to an SBT.

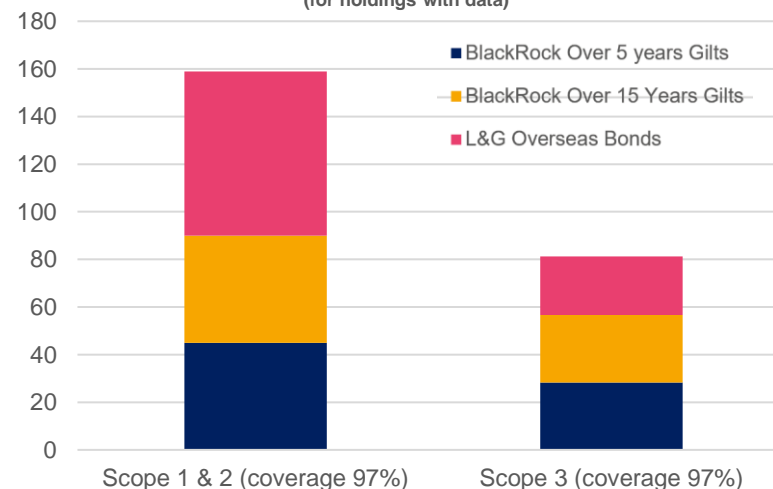
Proportion with science-based targets



Total GHG emissions (tCO₂e)
(for holdings with data)



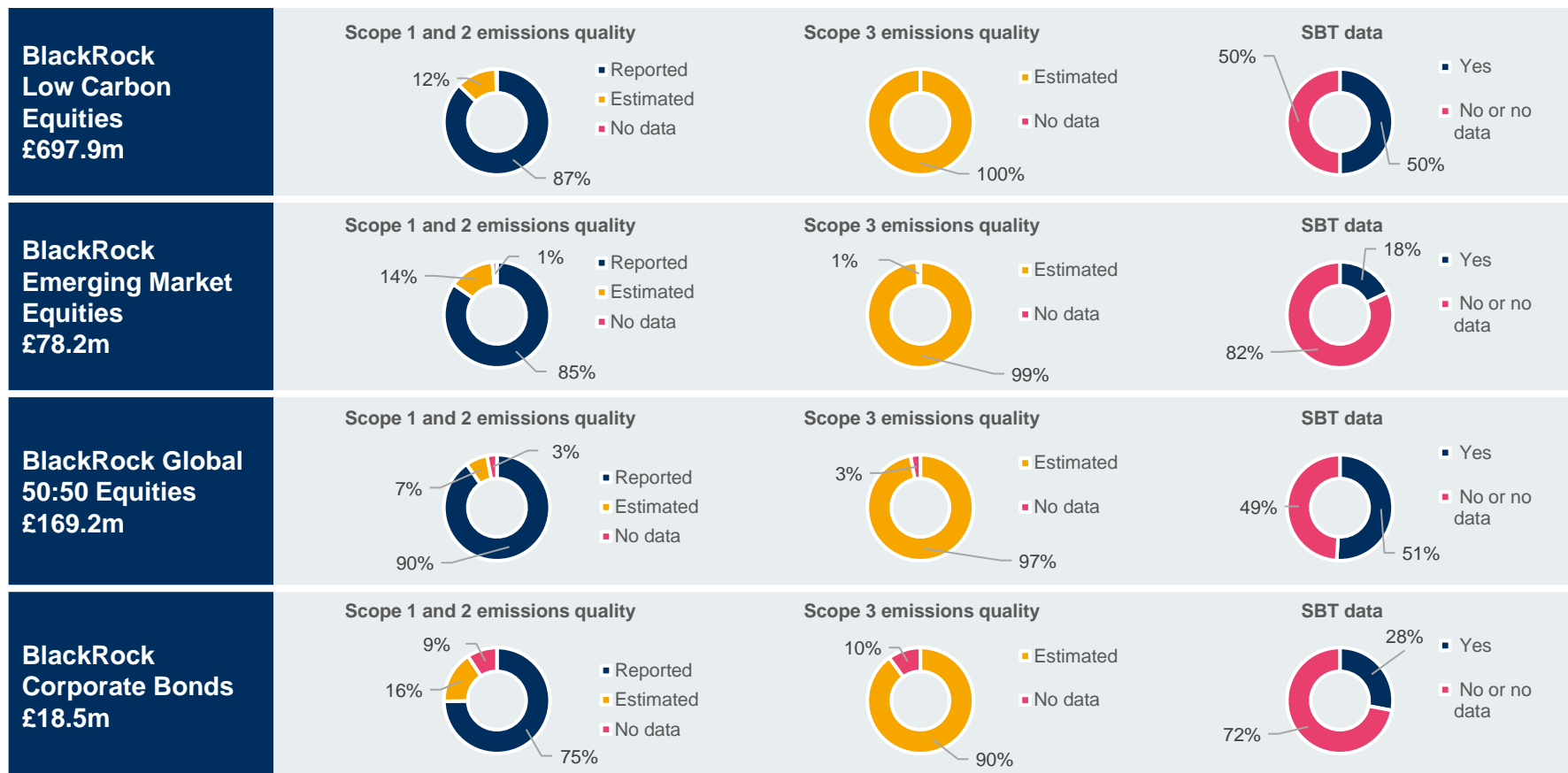
Carbon footprint (tCO₂e/£m)*
(for holdings with data)



Metrics and Targets

1. Metrics – DC Section (continued)

Breakdown of data quality as at 30 September 2024¹



We have not shown the breakdown of data quality for funds invested in Government Bonds since any carbon emission metrics for government bonds are calculated based on estimates. In addition, our estimates assume government bonds issued by a country with a legally binding commitment and regular carbon budgets are equivalent to an SBT.

Metrics and Targets

1. Metrics – DC Section (continued)

Below and on the following page we set-out insights the Trustee obtained from reviewing the climate metrics data and next steps (where applicable) we are considering along with their priority level.

Asset class	Interpreting the metrics	Next steps and priority level
Listed equities	<ul style="list-style-type: none"> • Equities make the most significant contribution to climate risk in the Fund, both as a result of equities being one of the assets most strongly impacted by climate risk and given the high allocation in the default. A high carbon footprint can indicate increased exposure to transition risks, as well as the contribution the portfolio makes to increasing global warming. • Data quality is high for all equity funds, with a large proportion of assets having reported scope 1 and 2 emissions and estimated scope 3 emissions, which helps to give a clearer indication of where risks are concentrated in the portfolio. • The Blackrock Low Carbon Equities fund has a significantly lower carbon footprint for Scope 1 and 2, and Scope 3 metrics than the two other equity funds. The fund's carbon footprint has decreased over the year due to changes in the fund's underlying index to i) remove companies involved in Very Severe ESG Controversies; ii) exclude companies with $\geq 1\%$ (previously $\geq 5\%$) revenue from thermal coal mining; and iii) introduce a targeted relative increase of 10% weight in companies setting emissions reductions targets compared to its parent index, MSCI World index. • The carbon footprint (Scope 1 and 2) for the BlackRock Emerging Markets Equity Index Fund is significantly higher than the BlackRock Global 50:50 Equities Fund. This reflects differences between emerging markets and developed markets, including a greater reliance on high-carbon fuels such as coal, and a larger role for industries with correspondingly high emissions. • A smaller proportion of assets in the BlackRock Emerging Markets Equity Fund have SBT targets, which reflects the relatively large share in emerging markets of high-emitting industries for which Net Zero alignment is more challenging. Also, companies in Emerging Markets may be smaller in size and have less capacity to resource sustainability issues appropriately. This indicates a high level of transition risk. However, the proportion has increased since last year's reporting, and we note that this fund forms a small proportion of Fund assets. 	<ul style="list-style-type: none"> • Medium: Follow-up on engagement with BlackRock from March 2024 on how it is maximising its impact when engaging with companies on climate. • Low: Science based targets approvals are stalling, and so without BlackRock pushing investee companies to sign-up we may not expect as great an increase in SBT over the coming years as there was previously. This is an area that the Trustee will continue to engage with BlackRock about.
Corporate bonds	<ul style="list-style-type: none"> • Corporate bonds have a small contribution to climate risk in the Fund, with the BlackRock Corporate Bonds Fund being the only fund invested in this asset class that is used in the default, with a relatively low carbon footprint across Scope 1 and 2, and Scope 3 emissions. • Data coverage is high (although slightly lower than for equities) and substantially higher than for the previous year mainly due to a change in calculation method. MSCI's coverage has also improved over the year. • We expect data quality to continue to improve over time as managers and companies develop processes for reporting and collecting this data. • The percentage of reported assets with science-based targets is low in comparison to the Fund's developed equity funds. However, we have seen improvements over the year and we expect that this will continue to improve going forward. 	<ul style="list-style-type: none"> • Low: As per above in relation to SBTs.

Metrics and Targets

1. Metrics – DC Section (continued)

Asset class	Interpreting the metrics	Next steps and priority level
Government bonds	<ul style="list-style-type: none"> • Government bond funds have a relatively small contribution to climate risk in the Fund. Government bonds make up a small portion of assets in the default. • Data quality is high for all government bond funds but is estimated based on the country issuing the debt, making it difficult to do a like for like comparison of the government bond funds. The L&G Overseas Bonds invests in a number of countries, including some countries where accurate estimates cannot be obtained currently. • The carbon footprint for the L&G Overseas Bonds Fund is slightly higher than the BlackRock gilts funds for Scope 1 and 2 emissions. This reflects the higher greenhouse gas emissions produced by countries other than the UK, due to greater reliance on high-carbon fuels such as coal, and a larger role for industries with correspondingly high emissions. Scope 3 emissions are lower for the L&G Overseas Bonds Fund, suggesting fewer greenhouse gas emissions produced from importing and consuming goods and services for countries outside of the UK. • SBTs are high for UK government bond funds. They based on the UK having a legally binding net zero commitment and regular carbon budgets, which we view as the equivalent to an SBT. The L&G Overseas Bond Fund has a much lower proportion of the portfolio with science-based targets, as not all countries that the fund is invested in have legally binding commitments and are therefore not deemed to have science-based targets. 	<ul style="list-style-type: none"> • As metrics are estimates based on country level activity and is therefore more difficult to influence than at a company level, the Trustee concluded that there was no immediate action.
Cash	<ul style="list-style-type: none"> • The contribution of cash funds to climate risk cannot be reported on currently. At present, there are gaps in reporting climate data for cash funds as the methodology for collating data in this asset class has not been established. • Cash is a relatively small portion of overall assets in the Fund, with the BlackRock Money Market Fund being the only cash fund the Fund is invested in. 	<ul style="list-style-type: none"> • The contribution of Cash to the overall climate risk of the Fund is likely to be low so the Trustee concluded that there was no immediate action.

Metrics and Targets

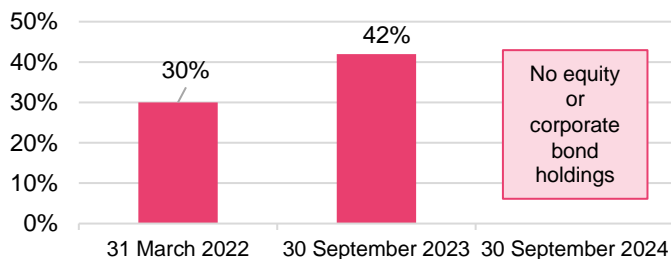
2. Target (DB and DC Sections)

The Trustee has set the following target and will monitor progress towards this over time:

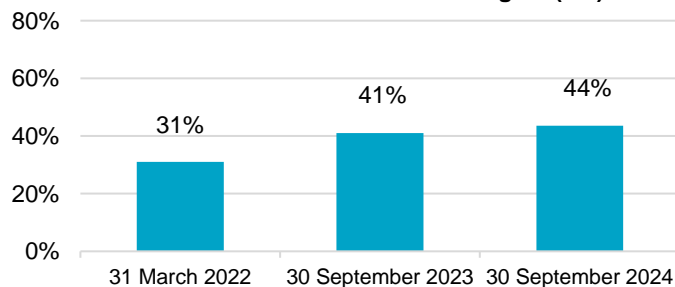
Target	DB Section coverage	DC Section coverage	Reference date
80% of listed equity and corporate bond investments to have set science-based targets by 2030	The Fund's DB Section was bought out by L&G on 25 September 2024. There were no equity or corporate bond holdings remaining as at 30 September 2024.	Listed equities and corporate bonds within the default fund (c.87% of assets in the DC default fund)	31 March 2022

Initial performance against the target

Proportion of corporate bond investments with science based targets (DB)



Proportion of listed equity and corporate bond investment with science-based targets (DC)



The following steps are being taken to achieve the target:

- Investment managers are routinely invited to present at Trustee meetings as part of the existing monitoring process. This includes meeting with BlackRock in March 2024 to engage with the manager about its stewardship practices in relation to managing climate related risks. When meeting with any of the Fund's investment managers, the Trustee will periodically ask the manager how they expect the proportion of portfolio companies with science-based targets to change over time and encourage the manager to engage with portfolio companies about setting science-based targets prioritising those with the highest carbon footprint.
- Science-based targets are often validated by the Science Based Targets initiative (SBTi). Where relevant, the Trustee will ask the manager about "equivalent" methods of assessing whether emissions reduction targets are science-based, for example for holdings for which SBTi validation is not available or not well suited, with a view to extending the coverage of the SBT metric.
- The investment consultant encourages managers to support the goal of net zero emissions by 2050 or earlier and has published its expectations for investment managers in relation to net zero. This includes the use of effective voting (where applicable) and engagement with portfolio companies to encourage achievement of net zero. The investment consultant continues to engage with managers on this topic and will encourage them to use their influence with portfolio companies to increase the use of SBT.
- Climate change is one of the Trustee's four stewardship priorities which it has communicated to its managers and also its expectation for managers to consider this priority area when undertaking voting and engagement.
- The Trustee will review progress towards the target each year and consider whether additional steps are needed to increase their chance of meeting the target.



Appendices

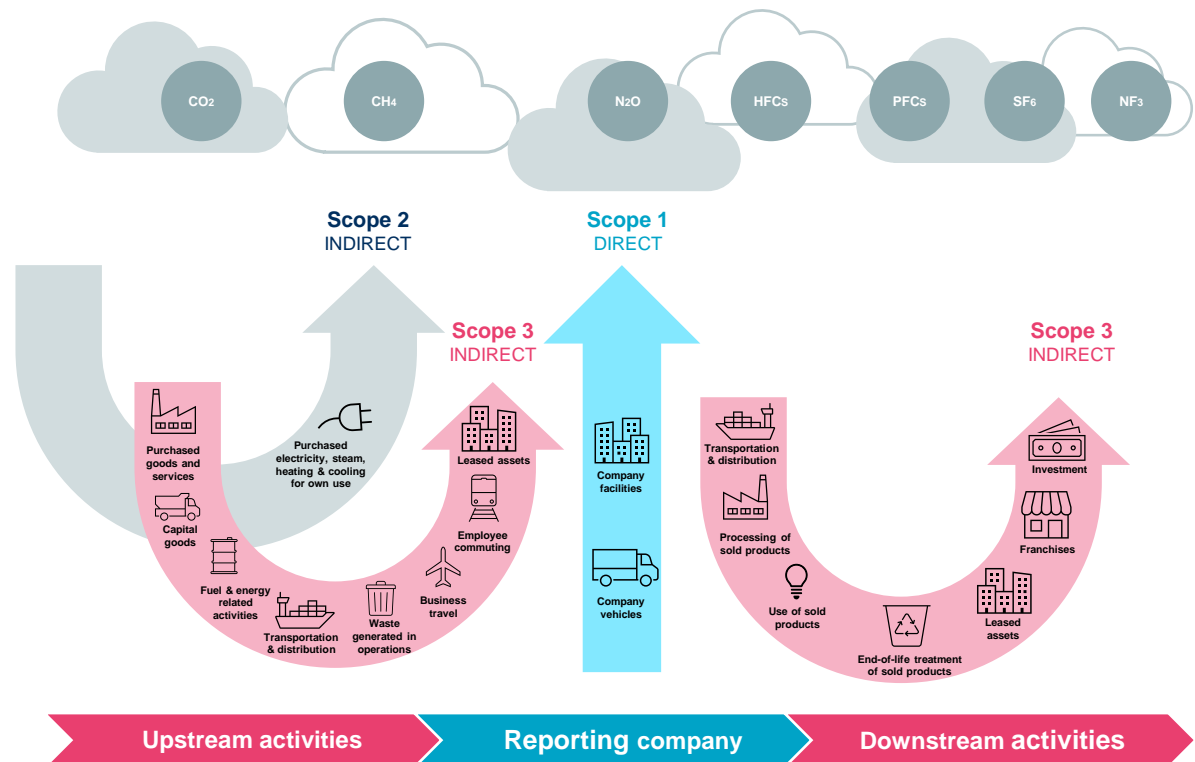
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Appendix 1 – Greenhouse gas emissions explained

Within the 'metrics and targets' section of the report, the emissions metrics relate to seven greenhouse gases – carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulphur hexafluoride (SF₆) and nitrogen trifluoride (NF₃). The figures are shown as "CO₂ equivalent" (CO₂e) which is the amount of carbon dioxide that would be equivalent to the excess energy being stored by, and heating, the earth due to the presence in the atmosphere of these seven greenhouse gases.

The metrics related to greenhouse gas emissions are split into the following three categories: Scope 1, 2 and 3. These categories describe how directly the emissions are related to an entity's operations. Scope 3 emissions often form the largest share of an entity's total emissions, but are also the ones that the entity has least control over.

- **Scope 1** greenhouse gas emissions are all direct emissions from the activities of an entity or activities under its control.
- **Scope 2** greenhouse gas emissions are indirect emissions from energy purchased and used by an entity.
- **Scope 3** greenhouse gas emissions are all indirect emissions from activities of the entity, other than scope 2 emissions, which occur from sources that the entity does not directly control.



Appendix 2 – Climate scenario analysis

Scenarios considered and why the Trustee chose them

The Trustee carried out climate scenario analysis based on macro-economic data at 30 June 2021, calibrated to market conditions at 30 September 2021 (for DC) and 31 December 2021 (for DB) with the support of their investment consultants, LCP. The analysis looked at three possible scenarios:

Transition	Description	Why the Trustee chose it
Failed Transition	Paris Agreement goals not met; only existing climate policies are implemented and temperatures rise significantly.	To explore what could happen to the Fund's finances if carbon emissions continue at current levels and this results in significant physical risks from changes in the global climate that disrupt economic activity.
Paris Orderly Transition	Paris Agreement goals met; rapid and effective climate action (including using carbon capture and storage), with smooth market reaction.	To see how the Fund's finances could play out if carbon emission reduction targets are met in line with the Paris Agreement, meaning that the economy makes a material shift towards low carbon by 2030.
Paris Disorderly Transition	Same policy, climate and emissions outcomes as the Paris Orderly Transition, but financial markets are slower to react and then react abruptly.	To look at the potential impact on the Fund if carbon emission reduction targets are met in line with the Paris Agreement, but financial markets are volatile as they adjust to a low carbon economy.

The Trustee acknowledges that many alternative plausible scenarios exist, but found these were a helpful set of scenarios to explore how climate change might affect the Fund in future.

The intricacies of climate systems present considerable difficulties in modelling the impacts on pension schemes' assets and liabilities. This is particularly true in the Failed Transition scenario where over 4°C of warming is observed. Due to the unprecedented nature of such warming, it is challenging to encompass all potential consequences within the modelling process. Simplifications in the modelling, such as not allowing for tipping points, mean the actual impact on pension schemes is likely to be more significant than is currently being modelled. As long as these limitations are understood, the scenarios still provide valuable insights to inform climate risk assessment and management.

The scenarios' key features are summarised on the next page.

These scenarios show that equity markets could be significantly impacted by climate change with lesser but still noticeable impacts in bond markets. All three scenarios envisage, on average, lower investment returns and these result in a worse DB funding position and lower retirement outcomes for DC members.

Appendix 2 – Climate scenario analysis

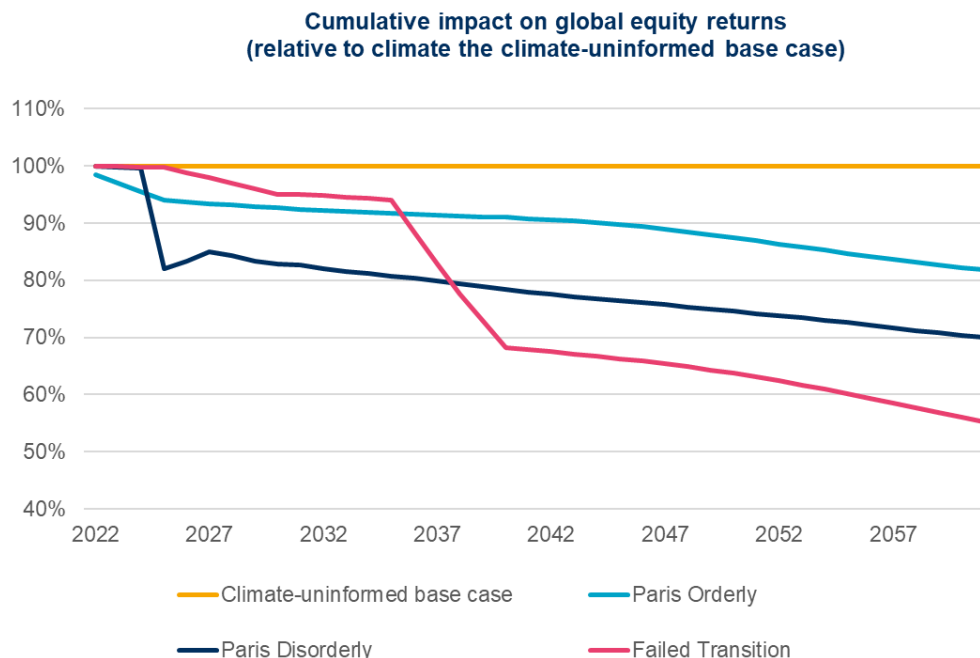
The climate scenarios considered by the Trustee

Scenarios as at 30 June 2021 – key features

Scenarios:	Faied Transition	Paris Orderly Transition	Paris Disorderly Transition
Low carbon policies	Continuation of current low carbon policies and technology trends	Ambitious low carbon policies, high investment in low-carbon technologies and substitution away from fossil fuels to cleaner energy sources and biofuel	
Paris Agreement outcome	Paris Agreement goals not met	Paris Agreement goals met	
Global warming	Average global warming is about 2°C by 2050 and 4°C by 2100, compared to pre-industrial levels	Average global warming stabilises at 1.6°C above pre-industrial levels	
Physical impacts	Severe physical impacts	Moderate physical impacts	
Impact on GDP	Global GDP is significantly lower than the climate-uninformed scenario in 2100. For example, UK GDP in 2100 predicted to be 50% lower than in the climate uninformed scenario.	Global GDP is lower than the climate-uninformed scenario in 2100. For example, UK GDP in 2100 predicted to be about 5% lower than in the climate-uninformed scenario.	In the long term, global GDP is slightly worse than in the Orderly Net Zero scenario due to the impacts of financial markets volatility.
Financial market impacts	Physical risks priced in over the period 2026-2030. A second repricing occurs in the period 2036-2040 as investors factor in the severe physical risks	Transition and physical risks priced in smoothly over the period of 2022-2025	Abrupt repricing of assets causes financial market volatility in 2025

Appendix 2 – Climate scenario analysis

These scenarios show that equity markets could be significantly impacted by climate change, as shown in the chart below, with lesser but still noticeable impacts in bond markets.



Over the long-term, and particularly beyond the time horizon modelled, the largest effects would be felt under the Failed Transition scenario. The modelling suggests that this would have greatest impact on the younger members of the DC section. On the face of it, the results suggest that the DB section is resilient in this scenario. This is due to the de-risked nature of the nature of the investment strategy, which has no equity exposure. Moreover, the DB section invests in a way that is designed to make it fairly immune to changes in interest rates and inflation in normal circumstances, which significantly reduces the volatility of its funding position. However, under climate scenarios with major economic disruption – such as the later years of the Failed Transition scenario – the Fund’s interest rate and inflation protection may break down, leaving it more exposed to climate risks. The median modelled outcomes do not illustrate this possibility.

Appendix 2 – Climate scenario analysis

Modelling approach

- The scenario analysis is based on a model developed by Ortec Finance and Cambridge Econometrics. The outputs were then applied to the Fund's assets and liabilities by LCP.
- The three climate scenarios are projected year by year, over the next 40 years.
- The results are intended to help the Trustee to consider how resilient the DB funding strategy, DB investment strategy and the DC default strategy are to climate-related risks.
- The Trustee discussed how future planned changes to the investment strategies for both Sections would change the analysis.
- The three climate scenarios chosen are intended to be plausible narratives of how the future could unfold, not "worst case". They are only three scenarios out of countless others which could have been considered. Other scenarios could give better or worse outcomes for the Fund.
- The results discussed in this report have been based on macro-economic data at 30 June 2021, calibrated to market conditions at 30 September 2021 (for DC) and 31 December 2021 (for DB).

For more information about the modelling approach, see page 40.

Modelling limitations

- The asset and liability projections shown reflect the Fund's current strategic journey plan. No allowance is made for changes that might be made to the funding or investment strategy as the climate pathways unfold, nor for action to be taken in response to the Fund achieving its long-term funding target.

- As this is a "top-down" approach, investment market impacts were modelled as the average projected impacts for each asset class. This contrasts with a "bottom up" approach that would model the impact on each individual investment held by the Fund's DB investment portfolio and DC default strategy. As such, the modelling does not require extensive scheme-specific data and so the Trustee was able to consider the potential impacts of the three climate scenarios for all of the Fund's DB assets and DC assets in the default strategy.
- In practice, the Fund's investments may not experience climate impacts in line with the market average.
- Like most modelling of this type, the modelling does not allow for all potential climate-related impacts and therefore is quite likely to underestimate some climate-related risks. For example, tipping points (which could cause runaway physical climate impacts) are not modelled and no allowance is made for knock-on effects, such as climate-related migration and conflicts. In addition, the model presumes that the UK government will remain solvent, thereby making no allowance for credit risk on government bonds. However, in a scenario where global warming exceeds 4°C, this assumption may no longer be valid.
- Medians from Ortec Finance's model outputs are used to project forward assets and liabilities, which means the results reflect the model's "middle outcomes" for investment markets under the three scenarios. Allowing for market volatility would result in better or worse model outputs than shown. Investment markets may be more volatile in future as a result of physical and transition risks from climate change, and this is not illustrated in the modelling shown.

Appendix 2 – Climate scenario analysis

Impact of climate change on life expectancy for the DB Section

If a member lives longer, the Fund pays the member's DB pension for longer and therefore needs more assets to make the payments.

Like the economic impacts, the impact of climate change on life expectancy is highly uncertain. As part of the discussions on the climate scenario analysis, the Trustee considered the various possible drivers for changes in mortality rates with both positive and negative impacts expected in each of the scenarios considered.

Given the level of uncertainty, the Trustee noted that no specific allowance has currently been made in the scenario analysis, but that it would keep up to date on developments in this area and consider it further at the next actuarial valuation.

Failed Transition -2%	Paris Transition +2%
Life expectancy in the UK affected adversely	Life expectancy in the UK affected favourably
▼ Carbon emissions continue to rise, with more air pollution-related deaths.	▲ High investment in low carbon technology, reducing the use of fossil fuels, so carbon emissions reduce and air quality improves.
▼ Average temperatures become more extreme, with greater frequency and severity of adverse events, particularly heatwaves and harsh winters.	▲ Average temperature rises are more modest, with no significant change in extreme events.
▼ The UK population does not adequately adapt to the changing circumstances.	▲ Population adequately adapts to the changing circumstances (eg installation of air conditioning, insulation, flood defences)
▼ Shocks to UK GDP growth, leading to less public resources available for healthcare and the NHS. Advances in medical advances are limited.	▲ UK economy adapts to low carbon technology and grows more in the medium term, resulting in no adverse impact on availability of public resources for healthcare. Medical advances continue.
▼ Food supplies are restricted (both UK and imports), leading to less healthy diets.	▲ Improvements to general diets, such as reduced consumption of meat.
▼ Fuels costs increase, affecting people's lifestyles and health.	▲ Improvements in lifestyles, such as more cycling and general exercise.

Note: These effects are uncertain and the magnitude will differ between schemes. The lists of effects are not exhaustive.

Appendix 2 – Climate scenario analysis

Modelling approach – more details

- The scenario analysis is based on the ClimateMAPS model developed by Ortec Finance and Cambridge Econometrics, and was then applied to the Fund's assets and liabilities by LCP. The three climate scenarios were projected year by year, over the next 40 years.
- ClimateMAPS uses a top-down approach that consistently models climate impacts on both assets and liabilities, enabling the resilience of the DB Section's funding strategy to be considered. The model output is supported by in-depth narratives that bring the scenarios to life to help the Trustee's understanding of climate-related risks and opportunities.
- ClimateMAPS uses Cambridge Econometrics' macroeconomic model which integrates a range of social and environmental processes, including carbon emissions and the energy transition. It is one of the most comprehensive models of the global economy and is widely used for policy assessment, forecasting and research purposes. The outputs from this macroeconomic modelling – primarily the impacts on country/regional GDP – are then translated into impacts on financial markets by Ortec Finance using assumed relationships between the macroeconomic and financial parameters.
- Ortec Finance runs the projections many times using stochastic modelling to illustrate the wide range of climate impacts that may be possible, under each scenario's climate pathway. LCP takes the median (ie the middle outcome) of this range of impacts, for each relevant financial parameter, and adjusts it to improve its alignment with LCP's standard financial assumptions.
- LCP then uses these adjusted median impacts to project the assets and liabilities of the Fund to illustrate how the different scenarios could affect its funding level. The modelling summarised in this report used scenarios based on the latest scientific and macro-economic data at 30 June 2021, calibrated to market conditions at 30 September 2021 (for DC) and 31 December 2021 (for DB).
- The modelling included contributions assumed to be paid in line with the current Schedule of Contributions, and the Trustee discussed how future planned changes to the investment strategies for both Sections would change the analysis. For the DC Section, members' starting pots values were assumed to equal the average (median) value for Fund members at each exact age. As c95% of members are deferred, we have assumed zero contributions. No allowance was made for changes to the investment strategy or contributions in response to the climate impacts modelled.
- As this is a "top-down" approach, investment market impacts were modelled as the average projected impacts for each asset class, ie assuming that the Fund's investments are affected by climate risk in line with the market-average portfolio for the asset class. This contrasts with a "bottom up" approach that would model the impact on each individual investment held in the Fund's investment portfolio. As such, it does not require extensive scheme-specific data and so the Trustee was able to consider the potential impacts of the three climate scenarios for all of the Fund's assets.
- In practice, the Fund's investment portfolio may not experience climate impacts in line with the market average. The Trustee considers, on an ongoing basis, how Fund's climate risk exposure differs from the market average using climate metrics (which are compared with an appropriate market benchmark).
- Uncertainty in climate modelling is inevitable. In this case, key areas of uncertainty relating to the financial impacts include how climate change might affect interest rates and inflation, and the timing of market responses to climate change. ClimateMAPS, like most modelling of this type, does not allow for all climate-related impacts and therefore, in aggregate, is quite likely to underestimate the potential impacts of climate-related risks, especially for the Failed Transition scenario. For example, tipping points (which could cause runaway physical climate impacts) are not modelled and no allowance is made for knock-on effects, such as climate-related migration and conflicts.

Appendix 3 – Further information on climate-related metrics

1. Listed equities and corporate bonds

Notes for data sourced from MSCI (shown on pages 17-32)

Emissions are attributed to investors using “enterprise value including cash” (ie EVIC, the value of equity plus outstanding debt plus cash).

The total GHG emissions figures omit any companies for which data was not available. For example, if the portfolio was worth £200m and emissions data was available for 70% of the portfolio by value, the total GHG emissions figure shown relates to £140m of assets and the portfolio’s carbon footprint equals total GHG emissions divided by 140. In other words, no assumption is made about the emissions for companies without data.

The science-based targets metric equals the % of portfolio by weight of companies that have a near-term carbon emissions reduction target that has been validated by the Science Based Targets initiative (SBTi). The MSCI database does not distinguish between companies which do not have an SBTi target and companies for which MSCI does not check the SBTi status, so the coverage for this metric is equal to the % of the portfolio with an SBTi target.

Emissions data coverage and quality

Where coverage of the portfolio analysed is less than 100%, this is because the MSCI database:

- Does not cover some holdings (eg cash, sovereign bonds, bonds that have recently matured, shares in companies no longer listed when the analysis was undertaken);
- Does not hold emissions data for some portfolio companies because the company does not report it and MSCI does not estimate it; and/or
- Does not hold EVIC data for some portfolio companies, so emissions cannot be attributed between equity and debt investors.

The last of these reasons is usually the main explanation for the fairly low coverage of bond portfolios.

The MSCI database records whether emissions data is reported or estimated, and which estimation method has been used, but not whether companies’ reported emissions have been independently verified. Our investment consultant has asked MSCI to introduce this distinction. Where emissions data is estimated, MSCI uses one of three methods.

- For electric utilities, MSCI’s estimate of Scope 1 emissions is of direct emissions due to power generation, calculated using power generation fuel-mix data.
- For companies not involved in power generation, which have previously reported emissions data, MSCI starts with a company-specific carbon intensity model.
- For other companies, MSCI uses an industry segment-specific carbon intensity model, which is based on the estimated carbon intensities for 1,000+ industry segments.

For Scope 3 emissions, we have chosen to use MSCI’s estimated emissions even where reported emissions are available. This provides greater consistency than using a mixture of reported and estimated emissions. Analysis of reported Scope 3 emissions suggests that the data quality is currently low: data is volatile and often out of date, with relatively few companies reporting on all types of Scope 3 emissions. In contrast, MSCI estimates all types of Scope 3 emissions for most companies in its database, for a recent reporting year and using a consistent approach.

MSCI is a leading provider of climate-related data, so we would expect the coverage to compare favourably with other data sources. Our investment consultant is engaging with MSCI to encourage them to improve EVIC coverage for debt issuers and to distinguish between companies which do not have an SBTi target and companies for which it does not check the SBTi status.

Appendix 3 – Further information on climate-related metrics

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2. UK government bonds and LDI

Government bond metrics are calculated on a different basis to other asset classes, so cannot be compared with them and should not be aggregated with them. They are typically much higher than emissions metrics for corporate debt.

Note that manager estimates of emissions data may differ materially from those calculated by LCP due to differences in methodologies, sources of data and/or dates of calculation.

The Scope 1+2 emissions intensity has been calculated as:

$$\frac{\text{total GHG emissions produced in Country A}}{\text{PPP-adjusted GDP of Country A}}.$$

Scope 3 emissions intensity has been calculated similarly, except that the emissions are those embodied in goods and services imported by the country and consumed within the country (rather than re-exported), rather than emissions produced in the country.

In both cases, Total greenhouse gas emissions have been calculated as:

$$\text{emissions intensity} * \text{value of your investment in government bonds}.$$

These are measures of the country’s reliance on greenhouse emissions. There can be issues of double counting across the portfolio where the country’s emissions double count the country’s company emissions already accounted for within other asset classes.

For the LDI mandate, derivatives have been treated as an investment in an equivalent gilt. Greenhouse gas emissions have been calculated for the gilt exposure (including the repo loan amount) but not the swap positions. This is in line with the Trustee’s understanding of the typical interpretation of the DWP guidance by investment managers and consultancies as not requiring estimation of emissions for swap exposures at this time.

Appendix 4 – Glossary

Actuarial valuation – an actuarial valuation is an accounting exercise performed to estimate future liabilities arising out of benefits that are payable to members of a DB pension scheme, typically once every three years. In the actuarial valuation exercise, a liability payout at a future date is estimated using various assumptions such as discounting rate and salary growth rate.

Alignment – in a climate change context, alignment is the process of bringing greenhouse gas emissions in line with 1.5°C temperature rise targets. It can be applied to individual companies, investment portfolios and the global economy.

Asset class – a group of securities which exhibit broadly similar characteristics. Examples include equities and bonds.

Avoided emissions – these are reductions in greenhouse gas emissions that occur outside of a product's life cycle of value chain, but as a result of the use of that product. For example, emissions avoided through use of a wind turbine or buildings insulation.

Bond – a bond is a security issued to investors by companies, governments and other organisations. In exchange for an upfront payment, an investor normally expects to receive a series of regular interest payments plus, at maturity, a final lump sum payment, typically equal to the amount invested originally, or this amount increased by reference to some index.

Buy-in – DB pension scheme trustees may choose to “buy-in” some of their scheme's expected future benefit payments by purchasing a bulk (ie one covering many individuals) annuity contract with an insurance company. This allows the trustees to reduce their scheme's risk by acquiring an asset (the annuity contract) whose cash flows are designed to meet ie “match” a specified set of benefit payments under the pension scheme. The contract is held by the trustees and responsibility for the benefit payments remains with the trustees. Common uses of buy-in arrangements have been to cover the payments associated with current pensioners or a subset of those members. Contracts to meet payments to members who are yet to become pensioners can also be purchased.

Buy-out – DB pension scheme trustees may choose to “buy-out” some or all of their scheme's expected future benefit payments by purchasing a bulk (ie one covering many individuals) annuity contract from an insurance company. The insurer then becomes responsible for meeting pension benefits due to scheme members (effected ultimately by allocating to each scheme member an individual annuity contract). Following a full buy-out, (ie one covering all scheme members) and having discharged all of the trustees' liabilities, the pension scheme would normally be wound up.

Carbon emissions - These refer to the release of carbon dioxide, or greenhouse gases more generally, into the atmosphere, for example from the burning of fossil fuels for power or transport purposes.

Carbon footprint – In an investment context, the total carbon dioxide or greenhouse gas emissions generated per amount invested (eg in £m) by an investment fund. Related definitions are used to apply the term to organisations, countries and individuals

Climate change adaptation – steps taken to adapt to the physical effects of climate change such as improving flood defences and installing air conditioning.

Climate change mitigation – steps taken to limit climate change by reducing greenhouse gas emissions, for example by shifting to renewable sources of energy – such as solar and wind – and by using less energy and using it more efficiently.

Covenant – the ability and willingness of the sponsor to make up any shortfall between a DB scheme's assets and the agreed funding target.

Credit – long-term debt issued by a company, also known as corporate bonds. Corporate bonds carry different levels of credit risk which is indicated by their rating and credit spread.

Defined Benefit (DB) – a pension scheme in which the primary pension benefit payable to a member is based on a defined formula, frequently linked to salary. The sponsor bears the risk that the value of the investments held under the scheme fall short of the amount needed to meet the benefits.

Appendix 4 – Glossary

Defined Contribution (DC) – a pension scheme in which the sponsor stipulates how much it will contribute to the arrangement which will depend upon the level of contributions the member is prepared to make. The resultant pension for each member is a function of the investment returns achieved (net of expenses) on the contributions and the terms for purchasing a pension at retirement. In contrast to a defined benefit scheme, the individual member bears the risk that the investments held are insufficient to meet the desired benefits.

Debt – money borrowed by a company or government which normally must be repaid at some specified point in the future.

Default strategy – the fund or mix of funds in which contributions in respect of a DC member will be invested in the absence of any explicit fund choice(s) of that member.

Environmental, social and governance (ESG) – an umbrella term that encompasses a wide range of factors that may have been overlooked in traditional investment approaches. Environmental considerations might include physical resource management, pollution prevention and greenhouse gas emissions. Social factors are likely to include workplace diversity, health and safety, and the company's impact on its local community. Governance-related matters include executive compensation, board accountability and shareholder rights.

Equity – through purchase on either the primary market or the secondary market, company equity gives the purchaser part-ownership in that company and hence a share of its profits, typically received through the payment of dividends. Equity also entitles the holder to vote at shareholder meetings. Note that equity holders are entitled to dividends only after other obligations, such as interest payments to debt holders, are first paid. Unlike debt, equity is not normally contractually repayable.

Ethical investment – an approach that selects investments on the basis of an agreed set of environmental, social and governance (ESG) criteria that are motivated by ethical considerations. These can be positive – eg choosing companies involved in water conservation or negative – eg not choosing companies involved in the arms trade.

Fiduciary obligations – a legal obligation of one party (a fiduciary) to act in the best interest of others. Fiduciaries are people or legal entities that are entrusted with the care of money or property on behalf of others. They include pension scheme trustees.

Fossil fuels – fuels made from decomposing plants and animals, which are found in the Earth's crust. They contain carbon and hydrogen, which can be burned for energy. Coal, oil, and natural gas are examples of fossil fuels.

Funding position – a comparison of the value of assets with the value of liabilities for a DB pension scheme.

Gilts – bonds issued by the UK government. They are called gilts as the bond certificates originally had a gilt edge to indicate their high quality and thus very low probability of default

Greenhouse gas (GHG) emissions (scopes 1, 2 and 3) – gases that have been and continue to be released into the Earth's atmosphere. Greenhouse gases trap radiation from the sun which subsequently heats the planet's surface (giving rise to the "greenhouse effect"). Carbon dioxide and methane are two of the most important greenhouse gases. See also Appendix 1.

Gross Domestic Product (GDP) – this is the value of all goods and services produced in a country over a given period, typically a year.

Investment mandate – see pooled mandate and segregated mandate

Integrated risk management – Integrated risk management is an approach used by DB pension scheme trustees to identify, manage and monitor the wide range of risks (relating to investment, funding and covenant) which might impact the chances of meeting their scheme's overall objectives

Liabilities – obligations to make a payment in the future. An example of a liability is the pension benefit 'promise' made to DB pension scheme members, such as the series of cash payments made to members in retirement. The more distant the liability payment, the more difficult it often is to predict what it will actually be and hence what assets need to be held to meet it.

Appendix 4 – Glossary

LDI (Liability Driven Investment) – an investment approach which focusses more than has traditionally been the case on matching the sensitivities of a DB pension scheme's assets to those of its underlying liabilities in response to changes in certain factors, most notably interest rate and inflation expectations.

Net zero – this describes the situation in which total greenhouse gas emissions released into the atmosphere are equal to those removed. This can be considered at different levels, eg company, investor, country or global.

Offsetting – the process of paying someone else to avoid emitting, or to remove from the atmosphere, a specified quantity of greenhouse gases, for example through planting trees or installing wind turbines. It is sometimes used to meet net zero and other emission reduction targets.

Paris Agreement – the Paris Agreement is an international treaty on climate change, adopted in 2015. It covers climate change mitigation, adaptation and finance. Its primary goal is to limit global warming to well below 2°C, preferably to 1.5°C, compared to pre-industrial levels.

Physical risk – these are climate-related risks that arise from changes in the climate itself. They include risks from more extreme storms and flooding, as well as rising temperatures and changing rainfall patterns.

Pooled mandate – a feature of a collective investment vehicle whereby an investor's money is aggregated (ie "pooled") with that of other investors to purchase assets. Investors are allotted a share of those assets in proportion to their contribution. Ownership is represented by the number of "units" allocated – eg if the asset pool is worth £1m and there are 1m units then each unit is worth £1. Pooled funds offer smaller investors an easy way to gain exposure to a wide range of investments, both within markets (eg by buying units in a UK equity fund) as well as across markets (eg by buying units in both a UK equity fund and a UK corporate bond fund).

Portfolio alignment metric – this measures how aligned a portfolio is with a transition to a world targeting a particular climate outcome, such as limiting temperature rises to well below 2°C, preferably to 1.5°C, as per the Paris Agreement. Assessments using these metrics consider companies' and governments' greenhouse gas (GHG) emissions reduction plans and likelihood of meeting them, rather than current, or the latest reported, GHG emissions.

Purchasing Power Parity (PPP) – the PPP is a theory of long-term equilibrium in exchange rates based on relative prices. For example, if the price of a basket of goods in the UK is £100 and the same basket costs \$200 in the USA, then the PPP exchange rate would be £1:\$2. The PPP rate and the actual market exchange rate can differ.

Responsible Investment (RI) – the process by which environmental, social and governance (ESG) issues are incorporated into the investment analysis and decision-making process, and into the oversight of investments companies through stewardship activities. It is motivated by financial considerations aiming to improve risk-adjusted returns.

Science-based targets – targets to reduce greenhouse gas emissions that are in line with what the latest climate science deems necessary to meet the goals of the Paris Agreement.

Science-Based Targets initiative (SBTi) – an organisation that sets standards and provides validation for science-based targets set by companies and investors.

Scenario analysis – a tool for examining and evaluating different ways in which the future may unfold.

Scope 1, 2 and 3 – a classification of greenhouse gas emissions. See Appendix 1.

Segregated mandate – a segregated investment approach ensures that an investor's investments are held separately from those of other investors. This approach offers great flexibility – for example, the investor can stipulate the precise investment objective to be followed and can dictate which securities can or cannot be held.

Self-select – in contrast with a default fund, a self-select fund within a DC scheme is one of a range of funds that members can choose to invest in.

Stakeholder – an individual or group that has an interest in any decision or activity of an organisation. The stakeholders of a company include its employees, customers, suppliers and shareholders.

Statutory obligations – statutory obligations are those obligations that do not arise out of a contract, but are imposed by law.

Appendix 4 – Glossary

Stewardship – stewardship is the responsible allocation, management and oversight of capital to create long-term value for clients and beneficiaries leading to sustainable benefits for the economy, the environment and society. It is often implemented via engagement with investee companies and exercising voting rights.

Stranded assets – assets that have suffered an unanticipated loss of value before the end of their expected useful economic life. The term is most often applied to fossil fuel investments in the context of climate policy, where legislative and market developments may result in assets being worth less than the value recorded on company balance sheets.

Sustainable investing - an approach in which an assessment of the environmental and social sustainability a company's products and practices is a key driver in the investment decision. ESG analysis therefore forms a cornerstone of the investment selection process.

Taskforce on Climate-related Financial Disclosures (TCFD) – a group of senior preparers and users of financial disclosures from G20 countries, established by the international Financial Stability Board in 2015. The TCFD has developed a set of recommendations for climate-related financial risk disclosures for use by companies, financial institutions and other organisations to inform investors and other parties about the climate-related risks they face.

Transition risk – these are climate-related risks that arise from the transition to a low-carbon economy and can include changes in regulation, technology and consumer demand.

