

Taskforce on Climate-related Financial Disclosures (“TCFD”) Report for the year ending 31 March 2023

SSE Southern Group of the ESPS

Introduction

This report sets out the approach of the Group Trustee of the SSE Southern Group of the ESPS (“the Group”) with regard to assessing, monitoring and mitigating climate-related risks in the context of the Group Trustee’s broader regulatory and fiduciary responsibilities to their members.

The Group Trustee believe that climate change is a systemic risk and an immediate concern. To ensure a sustainable future and to safeguard economic growth, the Group Trustee believe that concerted global action is required to tackle the climate crisis. The Group is a long-term investor, and the Group Trustee believes that improved transparency on climate related matters will lead to improved investment decisions which in turn will improve member outcomes. This has created focus and an imperative to act.

Therefore, the Group Trustee is supportive of any initiative that helps improve disclosures and enhances transparency. The TCFD framework provides a structure for companies, asset managers, asset owners, banks and insurance companies to outline the steps they have undertaken to identify, manage and monitor climate related risks and opportunities. The framework is designed to increase comparability but allow sufficient flexibility to communicate the specific approach adopted by each entity. Therefore, the Group Trustee supports the TCFD recommendations.

From 1 October 2021, pension schemes above a certain size have been required to comply with the TCFD requirements for pension schemes. These requirements applied to the Group, as an over £1bn scheme from 1 October 2022. This is the Group’s first disclosure to the Taskforce on Climate-related Financial Disclosures and this statement is therefore expected to evolve over time as the approach and actions taken develop. Regulation does not require the Group to submit this report as an individual scheme. The Group is part of the Electricity Supply Pension Scheme (“ESPS”) and as the Scheme Trustee, Electricity Pension Trustee Limited (“EPTL”) are required to submit a TCFD report covering the ESPS in its entirety.

As such the Group submits this report to demonstrate its commitment to addressing climate change within the Group’s investment strategy, and the progress the Group has made with regards to Responsible Investment (“RI”) considerations. This builds on a large amount of work that the Group Trustee has been doing to address climate related risks throughout recent years.

As well as developing the Group’s own reporting for TCFD, the Group Trustee expects the Group’s underlying investment managers and service providers to be aligned with TCFD. The Group Trustee will continue to monitor this through the regular reporting carried out.

Signed on behalf of the Group: _____

Date: _____

Background

The Taskforce on Climate-related Financial Disclosures (TCFD) was commissioned in 2015 by Mark Carney in his remit as Chair of the Financial Stability Board. The TCFD was asked to develop voluntary, consistent climate-related financial disclosures that would be useful in understanding material climate-related risks. In 2017 the TCFD released its recommendations for improved transparency by companies, asset managers, asset owners, banks, and insurance companies with respect to how climate-related risks and opportunities are being managed. Guidance was also released to support all organisations in developing disclosures consistent with the recommendations, with supplemental guidance released for specific sectors and industries, including asset owners. For the pensions industry, relevant guidance has been produced by the Pensions Climate Risk Industry Group (PCRIG).

The Task Force's report establishes recommendations for disclosing clear, comparable and consistent information about the risks and opportunities presented by climate change. Their widespread adoption will ensure that the effects of climate change become routinely considered in business and investment decisions. Adoption of these recommendations will also help better demonstrate responsibility and foresight in their consideration of climate issues, leading to smarter, more efficient allocation of capital, and helping to smooth the transition to a more sustainable, low carbon economy.

The Task Force divided climate-related risks into two major categories: risks related to the transition to a lower-carbon economy; and risks related to the physical impacts of climate change. The TCFD report noted that climate-related risks and the expected transition to a lower carbon economy affect most economic sectors and industries, however, opportunities will also be created for organisations focused on climate change mitigation and adaptation solutions. The report also highlights the difficulty in estimating the exact timing and severity of the physical effects of climate change.



The Task Force structured its recommendations around four thematic areas that represent core elements of how organisations operate: governance; strategy; risk management; and metrics and targets. The four overarching recommendations are supported by recommended disclosures that build out the framework with information that will help investors/stakeholders understand how reporting organisations assess climate related risks and opportunities. The

disclosures are designed to make TCFD-aligned disclosures comparable, but with sufficient flexibility to account for local circumstances.

This report provides details of the Group's approach against the four pillars:

- **Governance:** The organisation's governance and oversight around climate-related risks and opportunities.
- **Strategy:** The actual and potential impacts of climate-related risks and opportunities on the organisation's business, strategy, and financial planning.
- **Risk management:** The process used by the organisation to identify, assess, and manage climate-related risks.
- **Metrics and targets:** The metrics and targets used to assess and manage relevant climate-related risks and opportunities.

Report Summary

We have set out a summary of this report and the key highlights across each of the four pillars of TCFD below.

- **Governance**

- The Group has a governance policy that sets out roles/responsibilities.
- The Group Trustee has a Responsible Investment (RI) policy in place – available on the member website – that sets out our approach to climate-related issues and key roles and responsibilities with respect to climate change and broader Responsible Investment.
- The Group Trustee consider climate change to be a key risk to the Group and so have embedded climate-related issues across the Group’s strategic decision-making and other governance processes. The Group Trustee has also adopted climate change as one of three key stewardship themes for engagement with investment managers.
- There are a number of parties that feed into the Group Trustee’s approach to climate change by way of advice, supporting implementation, training and other means. The Group Trustee retain overall responsibility for the approach that is taken but has delegated responsibility to the Group’s investment managers to assess and manage climate related risks and opportunities on a day-to-day basis for their respective portfolios that they manage on the Group’s behalf.

- **Strategy:**

- During the year the Group Trustee has incorporated climate risks into decision making alongside the other risk factors considered when assessing the Group’s strategy. In particular, climate risks have been considered as part of the triennial asset liability strategy review which was carried out following the 2022 actuarial valuation.
- The Group Trustee carried out scenario analysis to test the resilience of the Group’s investment and funding strategy under a range of possible climate scenarios. This analysis provided the Group Trustee with comfort that the current framework has a good degree of resilience to climate change.
- The Group Trustee meets quarterly with the Group’s investment managers (typically one manager per quarter) where the discussions cover RI considerations, including climate change. A log of these engagement activities is maintained and included in each Investment Committee meeting pack.
- The Group Trustee has assessed how ESG considerations are integrated into specific asset classes and individual mandates. For example, the Group Trustee has worked with their investment advisor and one of the appointed investment managers to better understand how to evolve the existing Buy & Maintain corporate bond mandate to incorporate explicit ESG related investment guidelines, to both reduce the Group’s exposure to climate risk and align the portfolio to the UN Sustainable Development Goals (SDGs). The Group Trustee has subsequently taken the decision to implement these ESG related guidelines to the Buy & Maintain corporate bond mandate. Following carbon footprinting analysis, it was clear that some of the underlying holdings within the mandate contributed disproportionately to the Group’s overall Weighted Average Carbon Intensity (WACI). The latest carbon footprinting analysis, carried out in May 2023, shows that implementing these changes, has meaningfully reduced the Group’s carbon footprint.

- **Risk management:**

- The Group Trustee has a risk management policy in place that shows how climate is taken into account in all Group processes and integrated into overall risk management.

- The Group Trustee has a clear approach to the management of risks posed to the Group, which includes climate-related risks.
- The Group Trustee has embedded the consideration of climate-related risks into its broader risk management approach and consider climate risks as part of all that it does (e.g. investment strategy reviews, engagement with managers etc.)
- **Metrics and targets:**
 - The Group Trustee has selected a number of climate metrics by which to measure the Group's position and exposure to climate risks and opportunities.
 - The Group has a Weighted Average Carbon Intensity ('WACI') as at 31 December 2022 of 141 tCO2/\$m Sales (Scope 1 and 2 emissions only). This is a reduction of c45% versus the position as at 31 December 2021 but lags the aggregate benchmark.
 - The Group Trustee has set a data quality target for 4 of the Group's mandates: LGIM Buy & Maintain corporate bonds, CBRE UK property, Insight High Grade ABS and Insight Secured Finance I.
 - The Group's 2022 climate report indicated that the short-term target to reduce Scope 1 and 2 WACI emissions by 15% by 2025 relative to the baseline (2020 and 2021 average) has been achieved.
 - The Group Trustee aims to achieve a net zero position for all Group assets by 2050. Whilst this is not currently a formal target, the Group Trustee will use this aim to guide decisions and targets to be set within the individual mandates.
- **Next steps:**
 - Regularly reviewing the Group Trustee's approach to climate change and thus the policies and processes in place to embed climate-related issues across the Group's management.
 - Review the specific short-, medium- and long-term time horizons to ensure they remain appropriate.
 - Consider whether the Group's climate scenario analysis needs to be refreshed on an annual basis.
 - Further develop the Group's risk management approach to climate-related risks and opportunities and include further detail on specific climate-related risks within the Group's risk register.
 - Undertake annual climate metric reporting against the chosen metrics for the Group and use this to both monitor performance against the agreed targets as well as aid the Group Trustee in its investment decision-making as appropriate.

The Group Trustee will provide an update on these steps within the next report. The below pages detail the climate risk disclosures for the Group year ending 31 March 2023. A glossary of specialist terms has been provided in the appendix to this report in case this is helpful.

Governance

The Group's Responsible Investment (RI) policy covers broader aspects than just climate change and considers the whole ESG spectrum. However, this does include climate change and the Group Trustee gives climate change due consideration given its financial materiality. While TCFD focuses on climate change, the relevant sections in the Group's RI policy may instead refer to ESG/RI considerations more broadly.

Governance Disclosure 1: Describe the Trustee's oversight of climate-related risks and opportunities

The Group Trustee has undertaken training on climate change, specifically in relation to meeting the TCFD requirements and on how the existing LGIM Buy & Maintain corporate bond portfolio could be made "RI-aware", during the year. The Group Trustee has also undertaken training in previous scheme years in relation to both TCFD and wider ESG topics. Further training will be undertaken as required in order to maintain the Group Trustees' knowledge and understanding of the topic and how it applies to the Group.

The Group Trustee has a set of Responsible Investment (RI) beliefs in place for the Group, which include climate-related beliefs. These beliefs are documented in the Group's RI Policy and are reflected throughout the Statement of Investment Principles. The Group Trustee plans to review these beliefs at a high-level on an annual basis, with a more in-depth review being undertaken on a three-year basis.

The Group Trustee's RI policy outlines the Group's approach to climate-related issues and provides further details on oversight of climate risks and opportunities. The policy also sets out roles and responsibilities relating to climate-related issues and how these are brought to the Group Trustee's attention. This includes responsibility for ensuring all regulatory requirements are met and that the Group's governance processes are sufficient to ensure the proper management of all ESG related risks.

The Group's RI policy considers the whole ESG spectrum. However, this includes climate change, and the Group Trustee gives climate change due consideration given its financial materiality. Within this report, reference is made to climate change, however relevant sections in the RI policy may instead refer to ESG more broadly.

In fulfilling its duties, the Group Trustee delegates certain responsibilities to other parties.

The parties with a role in the Group's management, how they incorporate the identification, assessment and management of climate related risks and opportunities into that role and the methods the Group Trustee uses to assess each party is set out in this document and in the section below. Group Trustee effectiveness reviews are carried out regularly, which include assessment of the governance structures in place.

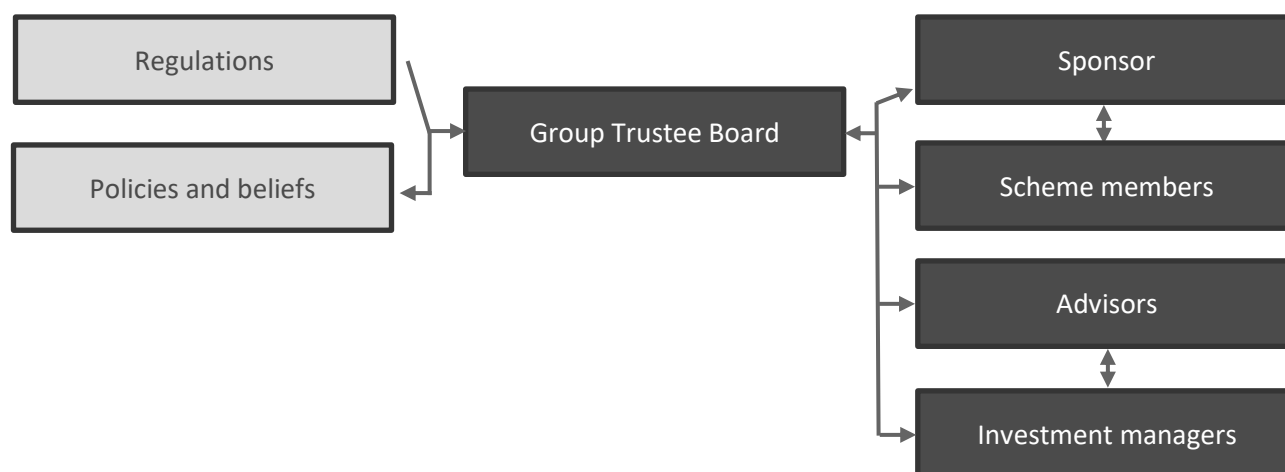
There are a number of responsibilities delegated to the investment managers of the Group's assets. These asset managers are monitored on an ongoing basis by the Group Trustee. The Group Trustee's investment advisor assists with the ongoing monitoring of the investment managers, including rating the approach of the managers with respect to climate related issues. Further details on these responsibilities are also included under Governance disclosure 2.

The Group Trustee maintains oversight of ESG-related risks and opportunities which are relevant to the Group through the governance processes in place. The Group Trustee maintains a governance document, which records the current structure, the parties involved in the Group's management and their roles in identifying, assessing and managing climate-related risks and opportunities. The governance structure and relationship between the respective parties within the Group are set out in this document and the section below.

The Group's sponsor, SSE, maintains its own climate change Policy and Sustainability report. The Group Trustee maintains an ongoing dialogue with the Sponsor to ensure both parties are aware of each other's

approach in this area. The Group Trustee ensures those issues relevant to the Group are considered where appropriate and aim to ensure synergy between the Group and Sponsor's approach to climate related issues.

The current governance structure of the Group and key relationships is illustrated in the chart below.



The Group Trustee have a dedicated section at each quarterly Investment Meeting which facilitates the necessary and appropriate discussion with regards to RI considerations. In fulfilling the Group Trustee's duty as described above, the Group Trustee delegates certain responsibilities to other parties (e.g. the Group's investment managers).

Governance Disclosure 2: Describe management's role in assessing and managing climate related risks and opportunities

There are a number of parties with a role in the Group's management and how they incorporate the identification, assessment and management of responsible investment, and in particular climate related risks and opportunities. These parties and their role in the Group's overall approach to climate-related issues, including the assessment and management of climate risks and opportunities, is set out below alongside the methods that the Group Trustee uses to assess each party. Ultimately, the Group Trustee has ownership of Group wide decisions. The Group Trustee however relies on input from its advisors and investment managers to assist with assessing and managing climate related risks and opportunities at the Group wide level. The Group Trustee has delegated responsibility to the Group's investment managers to assess and manage climate related risks and opportunities on a day-to-day basis for their respective portfolios that they manage on the Group's behalf.

It is also noted within the Group's RI policy those individuals and organisations (including the Group Trustee's advisors) that have oversight, accountability and manage responsibilities for climate-related risks.

Additionally, the Group Trustee maintain ongoing dialogue with the Group Sponsor, including regular updates provided by a Sponsor representative at Group Trustee meetings. This dialogue includes the Sponsor's approach to climate-related issues to ensure those relevant to the Group are considered where appropriate and ensure synergy between the Group and Sponsor's approach to climate related issues.

The Group Trustee

The Group Trustee has ownership of the overall investment strategy, including the implementation of the Group's RI Policy. The Group Trustee is expected to incorporate RI considerations into its management of the Group's assets, identifying and managing ESG related risks and opportunities in all areas including asset allocation decisions, manager appointments and its monitoring of the Group's current investment managers. In relation to RI, the Group Trustee aims to:

- Act in line with the beliefs and principles set out in the Group Trustee's agreed RI policy.

- Continue to progress towards becoming more active in all areas of RI.
- Meet the requirements of the new climate related regulations that came into force from October 2022.

In-house Pensions Team

The In-house SSE Pensions Team support the Group Trustee in the arranging of meetings and taking forward agreed actions between meetings. The Pensions Team also has responsibility to ensure appropriate levels of resource to complete all RI associated requirements, including TCFD reporting.

Investment Advisors

The Group's investment advisors, Hymans Robertson, are responsible for assisting the Group Trustee to ensure climate related risks and opportunities are embedded into all investment decisions. They provide advice and training to the Group Trustee regarding regulatory requirements and are expected to incorporate climate considerations into any advice regarding any strategy changes or manager appointment.

The Group Trustee has set objectives for its Investment Advisor which include objectives relating to the advisor's support in all RI considerations. The Investment Advisor is assessed against these objectives annually and the objectives themselves are assessed regularly to ensure they remain appropriate.

Actuarial Advisors

The Group's Actuarial advisors, Aon, are responsible for identifying any climate considerations which should be incorporated into the Group's funding strategy (both short and long term) and in the Group's integrated risk management plan. This will include the setting of individual financial and demographic assumptions.

Covenant Advisors

The Group Trustee's assessment of the covenant of the sponsor, SSE, is undertaken through ongoing dialogue with the Company as well as formal covenant reviews undertaken by Penfida. Penfida (and the Principal Employer as outlined above), within their reviews, are responsible for identifying any climate considerations which should be incorporated into the Group's strategic discussions and in the Group's integrated risk management plan.

Investment Managers

The Group's investment managers are expected to, and indeed responsible for, integrating ESG considerations, including climate change, to the extent possible, into their management of each of the Group's mandates. The Group's investment managers are expected to provide frequent reporting on ESG topics and provide updates at the quarterly manager meetings.

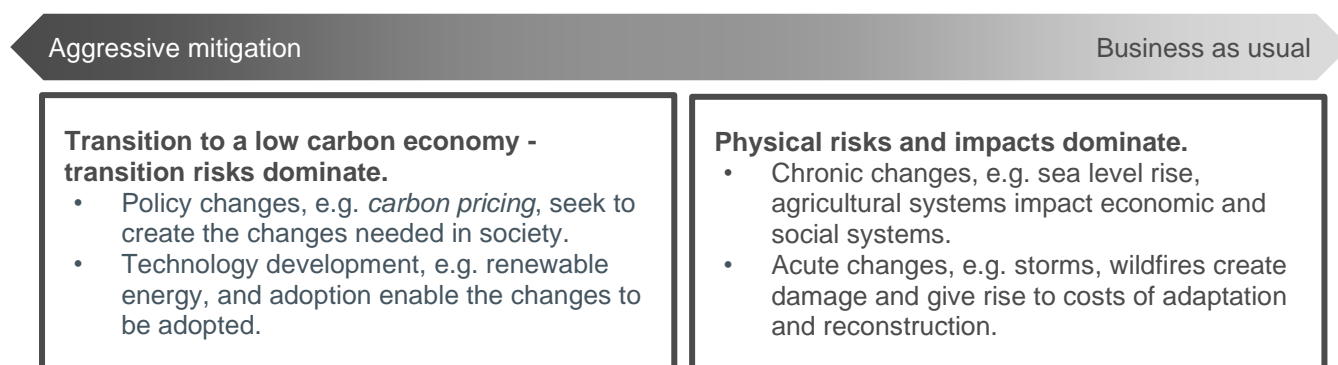
On the appointment of any new manager, the Group Trustee assesses each manager's RI capabilities, with assistance from their Investment Advisor, to determine if that manager's approach is aligned with the Group Trustee's RI Policy. Once appointed, the Group Trustee monitors all managers regularly, assessing each manager's RI processes and policy and challenges managers on any issues identified.

The Group Trustee also liaises with the investment managers in relation to RI matters, as required. The Group Trustee maintains a record which is updated based on information provided by and discussions held with the investment managers during Group Trustee meetings.

Strategy

Strategy Disclosure 1: Describe the climate related risks and opportunities the Trustee has identified over the short, medium, and long-term

When considering the impact on the Group, climate risk can be defined as the potential impact on future financial returns that may arise from climate change. Climate risk is typically split into two parts – transition risk and physical risk. These risks may vary in likelihood and intensity over different time horizons and dependent on how quickly and well the world transitions to a low-carbon economy. This is laid out in the diagram below:



The Group is a long-term investor. Given the nature of climate change and the time-horizons over which impacts of climate change may be felt, it can be expected that climate risk will impact the Group in various ways. However, it is important first to define the different time-horizons which the Group Trustee may consider, in order to clarify whether the different risks and opportunities arising from climate change may impact the Group in the short-, medium- or long-term. In the context of the Group, the Group Trustee considers short, medium and long-term time horizons. The Group Trustee has defined what these time-horizons mean in more detail as set out below:

- **Short term:** period to the Group's next triennial actuarial valuation (31 March 2025, 2 yrs).
- **Medium term:** period to the Group's target date to be 100% funded on a gilts basis (31 March 2030, 7 yrs).
- **Long term:** period to broadly align with the duration of the Group's liabilities (31 March 2040, 17 yrs).

Transition risks are expected to feature more prominently over shorter periods. This view is predominately driven by the likely escalation in climate change regulation over the short to medium term. Over longer periods, the Group Trustee expects physical risks to feature increasingly – however the balance between the transition risks and physical risks experienced will depend on the approach taken to climate change and the speed with which the world transitions to a low-carbon economy. Both transition and physical climate risks will impact the Group during its lifetime. Risks relating to climate change are identified through the various processes involved in managing the Group, which are set out in the Risk Management section of this report. The Group Trustee maintains a climate risk dashboard which records risks identified through these processes and prioritises areas for action.

Climate risks may be identified, assessed and monitored in a number of different ways. These approaches include looking at climate risks and opportunities in detail for each asset in which the Group invests. The Group Trustee considers climate risks at both an overall strategy level as well as with respect to each asset in which the Group is invested. The Group Trustee then engage with their individual managers on these assets and discuss where improvements can be made.

The Group Trustee assess' climate related risks and opportunities when setting investment and funding strategy, taking into account covenant, to ensure a holistic and consistent approach. The table overleaf sets out a summary of the key ESG risks the Group Trustee has identified and monitors at a Group level. The Group Trustee also monitors these at an individual manager level, which is available in Appendix 3. The Group Trustee also considers how the impacts of these risks will manifest over the short-, medium- and long-term. Further

detail on the risk management processes in place for the Group are set out in the next section. The Group Trustee notes that climate-related risks and opportunities will evolve over time as more information and products come to the fore.

SSE Southern Group of the ESPS Climate Risks & Opportunities Dashboard - Group level							
Last update: Feb-23							
Risk Area	Climate Risks					Opportunities	
	Identified Risks	Impact			Mitigation/Actions	Action owner & Timescales for next steps	Identified Opportunities
		Short term	Medium term	Long term			
Investment	<p>Short/medium term, exposed to risk through remaining equity exposure and credit asset allocations.</p> <p>Medium to long term plans will see exposure to UK govt (through LDI), plus corporate bonds through Buy & Maintain mandate. Risk that ability of underlying investee companies in the credit portfolio to service debt could be impacted by transition or physical risks.</p>	Low	Medium	Medium	<p>Existing Buy & Maintain corporate bond mandate updated to incorporate explicit ESG related investment guidelines, to both reduce the Group's exposure to climate risk and align the portfolio to the UN Sustainable Development Goals (SDGs).</p> <p>Group to consider investing equity assets into ESG aligned passive tracker fund as part of strategy review in May 2023.</p> <p>Updated climate scenario analysis to be performed in line with triennial actuarial valuation.</p>	<p>Owner: Hymans/ Group Trustee Timescale: 2023 - revisit as part of strategy review in May 2023.</p>	<p>Limited beyond current planned actions given the Group's low risk strategy and funding position.</p> <p>As part of future de-risking potentially through buy-ins, we expect insurers will be seeking out climate positive opportunities as part of their own climate risk and opportunities assessments under TCFD, due to their long-term investment horizons and economies of scale.</p>
Funding	<p>Longevity impact from climate change and potential uncertainties in the funding assumptions.</p> <p>Impact of climate change on longevity trends will take time to emerge so might expect minimal impact short term with the greatest potential impacts longer term.</p> <p>Inflation and interest rate changes impact liabilities.</p>	Low	Low	Medium	<p>Strong funding level provides buffer to mitigate impact of future longevity improvements.</p> <p>Group has high levels of hedging to protect the funding level against movements in interest rates and inflation.</p> <p>Discuss with Aon how they are taking climate risk into consideration as Group Actuary, particularly as part of the valuation process.</p>	<p>Owner: Aon/ Hymans/ Group Trustee Timescale: ongoing but primarily as part of the 2025 valuation.</p>	<p>Potential for buy-ins to hedge proportion of longevity risk and mitigate risk.</p> <p>Otherwise limited.</p>
Covenant	<p>Risk of Sponsor not meeting climate risk targets which may impact profitability and strength of covenant. Longer term physical risks could impact Sponsor assets and infrastructure leading to destruction of value. Reliance on Sponsor covenant is limited because of the Group's funding position but could increase in importance if funding level were to fall due to other risks outlined above.</p>	Medium	Medium	Medium	<p>Strong funding position reduces Group's reliance on the Sponsor in the medium term. Group Trustee engages with the Sponsor on a regular basis as part of regular covenant monitoring. Sponsor has set strong business goals aligned to UN's Sustainable Development Goals and reports regularly against its targets. Sponsor has set net zero targets verified by Science Based Targets initiative. However, long-term success is reliant on achieving these targets, therefore flagged as Medium risk over the long term. Climate risk to be considered further in future covenant assessments.</p>	<p>Owner: Company/ Group Trustee Timescale: Ongoing - Group Trustee to engage with company in 2023 on progress against stated Net Zero targets. Consider whether further independent covenant assessment is required.</p>	Limited

Strategy Disclosure 2: Describe the impact of climate-related risks and opportunities on the organisation's business, strategy and financial planning.

The systemic nature of climate change risk has the potential to reduce returns across all asset classes and will have a macro-economic impact that could affect the entire Group. Equally, however, the need to transition to a low carbon economy and the innovation which that will require presents a number of potential investment opportunities.

Over recent years, the Group Trustee has dedicated considerable time and resource to ensuring that climate risk and opportunities are appropriately embedded within the investment processes. This has largely been in the form of engaging with the Group's investment managers and when setting investment strategy, considering the resilience of the strategy to climate change risks.

The Group Trustee has identified a number of actions that will be important to undertake to manage climate risk as well as progress against the targets and commitments that have been agreed for the Group.

Climate change and broader Environmental, Social and Governance ('ESG') issues have been included within the Group's risk register. Whilst this has been discussed in further detail within the risk management section of this report, the actions identified to manage and mitigate climate and ESG risks are set out below:

- Enhance the management of ESG issues and climate change, including new potential investment products;
- Monitor position of Government's approach to directing investment strategies via statutory guidance and legislation;
- Increase the visibility of the Group's approach to climate change risk.

The Group Trustee has already been undertaking a number of activities to support these actions and manage climate risk to the Group. These actions include:

- The Group Trustee meets quarterly with the Group's investment managers (typically one manager per quarter) where the discussions cover RI considerations, including climate change. A log of these engagement activities is maintained and included in each Investment meeting pack.
- A dedicated section for Responsible Investment matters is included on each quarterly investment meeting agenda.
- The Group Trustee has agreed climate targets and will monitor performance against these targets on an ongoing basis, with this performance being considered as part of regular strategy reviews.
- When assessing strategy changes to be taken for the Group, the Group Trustee has taken into account the climate risks and ESG characteristics of each mandate when selecting the types of investment to increase/reduce exposure to.
- The Group Trustee undertook climate scenario analysis in the review of investment strategy as part of the Actuarial Valuation (covered further in the section below).
- The Group Trustee conducts an annual ESG policy review which includes reviewing their managers' stewardship policies and practices. The Group Trustee also examines recorded evidence of the Group's equity managers' voting for, and against management where appropriate, including on climate issues.
- The Group Trustee conducted the Group's first carbon footprint and ESG report in May 2021 to better understand the Group's exposure to these risks, with the aim of setting tangible targets for reducing the Group's carbon footprint over time. The Group Trustee will perform this carbon footprinting exercise annually with a view to tracking progress over time.

- By including specific references to ESG and climate related risks within the objectives of the Group Trustee's investment advisors, the Group Trustee receives training as appropriate on the management of climate related risks and opportunities.
- The Group Trustee has assessed how ESG considerations are integrated into specific asset classes and individual mandates, for example:
 - The Group Trustee has worked with Hymans Robertson and one of the appointed investment managers to better understand how to evolve the existing Buy & Maintain corporate bond mandate to incorporate explicit ESG related investment guidelines, to both reduce the Group's exposure to climate risk and align the portfolio to the UN Sustainable Development Goals (SDGs). The Group Trustee has subsequently taken the decision to implement these ESG related guidelines to the Buy & Maintain corporate bond mandate. Following carbon footprinting analysis, it was clear that some of the underlying holdings within the mandate contributed disproportionately to the Group's overall Weighted Average Carbon Intensity (WACI). The latest carbon footprinting analysis, carried out in May 2023, shows that implementing these changes, has meaningfully reduced the Group's carbon footprint.
- The Group Trustee has also analysed how different managers identify and monitor climate related risks, which will continue to increasingly be factored into the assessment and selection of managers/mandates.

Recent actions that the Group Trustee took in order to address climate and ESG risk to the Group also includes the below.

- When undertaking the triennial investment strategy review to assess the appropriateness of the Group's investment strategy the Group Trustee considered the alignment to the agreed climate-related investment beliefs. As part of this review, the Group Trustee also considered an ESG aware global equity portfolio with a manager renowned for their leading RI capabilities to form part of the Growth portfolio.
- The Group Trustee's assumptions for the 2022 valuation considered the potential impact of climate risk on the Group's liabilities on an implicit basis, amongst other future uncertainties. The Group Trustee also engaged with their appointed covenant advisor on the potential impact that climate-related risks and opportunities may have on the covenant of the Sponsor.
- The Group Trustee has estimated the costs of the additional work undertaken to meet the requirements under the TCFD as well as additional actions that they may wish to undertake as part of the Group's financial planning and budget. However, there is an expectation that these costs will be negated over time through the reduced risk and improved position of the Group over time through lower impacts of climate change as well as taking advantage of climate-related opportunities.

Further examples of the actions that the Group Trustee has been undertaking are included across other sections of this report.

Strategy Disclosure 3: Describe the resilience of the organisation's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario

In order to test the resilience of the Group's funding and investment strategy to climate risk, The Group Trustee carried out climate scenario analysis, considering the Group's assets and market conditions as at 28 February 2023, liabilities projected from the March 2022 valuation. This analysis was undertaken to assess the resilience of the Group's combined funding and investment strategy over the short-, medium- and long-term time horizons to a number of different climate scenarios with a focus on both upside and downside funding outcomes. These climate scenarios estimate the impact to the Group of temperature rises equivalent to 1.5°C, 2°C and 4°C above pre-industrial times, as detailed in the scenario graphic below. The Group Trustee have used these three

scenarios, as working in conjunction with their investment advisor, they believe these to be an appropriate assessment of the broad range of potential outcomes.

The scenario analysis was based on top-down analysis of the Group’s strategy, using a model produced by the Group’s investment advisor, Hymans Robertson. The scenario analysis considers the potential impact on funding outcomes under three scenarios, which differ by how quickly and decisively the world responds (or fails to respond) to climate change. The table below summarises these scenarios and how they correlate to the variance of the world’s transition to a low carbon economy as outlined under Strategy disclosure 1.

Aggressive mitigation			Business as usual
Green Revolution	Delayed Transition	Head in the Sand	
Concerted policy action starting now e.g. carbon pricing, green subsidies Public and private spending on “green solutions” Improved disclosures encourage market prices to shift quickly Transition risks in the short term, but less physical risk in the long term High expectation of achieving <2°C warming	No significant action in the short-term, meaning the response must be stronger when it does happen Shorter and sharper period of transition Greater (but delayed) transition risks but similar physical risks in the long term High expectation of achieving <2°C warming	No or little policy action for many years Growing fears over ultimate consequences leads to market uncertainty and price adjustments Ineffective and piecemeal action increases uncertainty Transition risks exceeded by physical risks Low/no expectation of achieving <2°C warming	



Climate Scenarios – Strategies tested

The Group Trustee is planning to implement a revised investment strategy following the completion of the recent triennial valuation. Therefore, in testing the resilience of the Group’s overall strategy to climate change, the Group Trustee performed climate scenario analysis allowing for the proposed changes to the investment strategy – both for the immediate evolution and those proposed for each of the de-risking triggers – so the analysis formed part of the Group Trustee’s decision-making process as to which investment strategies the Group should adopt moving forward. The Group Trustee considered:

- The potential impact of various climate scenarios on the revised investment strategy as proposed for immediate adoption following the completion of the 2022 triennial actuarial valuation; and
- The potential impact of various climate scenarios on the future investment strategies proposed under the Group’s updated de-risking framework following the completion of the 2022 triennial actuarial valuation.

Climate Scenarios – Outputs

The Group Trustee considered two key outputs when understanding the resilience of the Group to each of the climate scenarios:

- ‘Likelihood of success’: this means the probability that the Group will be 100% funded (i.e. assets are at least equivalent to the liabilities) over the relevant time periods.
- ‘Average of worst 5% of funding levels over X years’: this means the possible fall in the funding level over the relevant time periods in the worst 5% of cases.

The output from the analysis is set out in the following tables.

Strategy	Impact of climate scenario of likelihood of success		
	Short term 2 years	Medium Term 7 years	Long term 17 years
Proposed strategy	Base: 17% Green revolution: +1% Delayed transition: -1% Head in the sand: -1%	Base: 48% Green revolution: 0% Delayed transition: -4% Head in the sand: -1%	Base: 71% Green revolution: 0% Delayed transition: +1% Head in the sand: -3%
92.5% trigger	Base: 26% Green revolution: +1% Delayed transition: -1% Head in the sand: -3%	Base: 56% Green revolution: -1% Delayed transition: -4% Head in the sand: -2%	Base: 76% Green revolution: -2% Delayed transition: +2% Head in the sand: -2%
95.0% trigger	Base: 36% Green revolution: +1% Delayed transition: -1% Head in the sand: -3%	Base: 61% Green revolution: -2% Delayed transition: -4% Head in the sand: -2%	Base: 79% Green revolution: -2% Delayed transition: +1% Head in the sand: -3%
97.5% trigger	Base: 53% Green revolution: +1% Delayed transition: 0% Head in the sand: 0%	Base: 69% Green revolution: 0% Delayed transition: -3% Head in the sand: -2%	Base: 83% Green revolution: -1% Delayed transition: +1% Head in the sand: -5%
100% trigger	Base: 69% Green revolution: +1% Delayed transition: 0% Head in the sand: +1%	Base: 77% Green revolution: +1% Delayed transition: -1% Head in the sand: -1%	Base: 87% Green revolution: -2% Delayed transition: 0% Head in the sand: -4%

Strategy	Average of worst 5% of funding levels		
	Short term 2 years	Medium Term 7 years	Long term 17 years
Proposed strategy	Base: 78% Green revolution: 0% Delayed transition: 0% Head in the sand: +1%	Base: 69% Green revolution: -1% Delayed transition: -1% Head in the sand: 0%	Base: 43% Green revolution: -4% Delayed transition: +3% Head in the sand: -9%
92.5% trigger	Base: 82% Green revolution: 0% Delayed transition: 0% Head in the sand: +1%	Base: 74% Green revolution: -1% Delayed transition: -1% Head in the sand: 0%	Base: 55% Green revolution: -3% Delayed transition: +2% Head in the sand: -7%
95.0% trigger	Base: 85% Green revolution: 0% Delayed transition: 0% Head in the sand: +1%	Base: 78% Green revolution: -1% Delayed transition: -1% Head in the sand: 0%	Base: 63% Green revolution: -1% Delayed transition: +1% Head in the sand: -4%
97.5% trigger	Base: 88% Green revolution: 0% Delayed transition: 0% Head in the sand: +1%	Base: 81% Green revolution: -1% Delayed transition: -1% Head in the sand: 0%	Base: 69% Green revolution: -1% Delayed transition: +1% Head in the sand: -2%

100% trigger	Base: 91% Green revolution: 0% Delayed transition: 0% Head in the sand: +1%	Base: 84% Green revolution: -1% Delayed transition: -1% Head in the sand: 0%	Base: 74% Green revolution: 0% Delayed transition: +1% Head in the sand: -2%
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Climate Scenarios – Conclusions

The key takeaway is that the investment strategies in the proposed de-risking framework are all relatively resilient to the climate stresses applied. This is the case over all of the time periods modelled, with a c7% range (-5% to +2%) of impact on probability of success around the central base case.

Over the medium term, 7-year horizon, the “delayed transition” scenario has the greatest impact on funding outcomes (limited progress on climate preparations in the short term, with a sharp transition in the medium term that is highly disruptive for the global economy).

Over the longer term, the head in the sand scenario is most impactful on funding outcomes. Understandably, the variability around the base case increases over the long term (17yrs), as the economic impacts from climate change are expected to be more pronounced over longer horizons.

It is important that, in absence of a strong belief of which climate scenario may transpire in practice, the Group continues to factor climate risk into all strategic, asset class and investment manager considerations and decision making.

Based on the output of the scenario analysis, the Group Trustee agreed to continue with the approach outlined above and integrate climate risk and opportunities into decision making where appropriate. This analysis will be carried out on at least a triennial basis, alongside each future investment strategy review and triennial Actuarial Valuation. In the interim years, the Group Trustee will consider whether to refresh the analysis, stating whether or not they choose to do so and why in the relevant TCFD report covering that period.

Risk Management

Risk Management Disclosure 1: Describe the organisation's processes for identifying and assessing climate related risks.

As part of the Group Trustee's responsibility for the setting and implementation of the Group's Responsible Investment Policy, the Group Trustee must ensure that ESG related risks, including climate change, are identified, assessed and effectively managed. Therefore, it is crucial that the management of these risks is integrated into the overall risk management of the Group. The Group Trustee delegates aspects of this responsibility to other parties, but retains overall oversight, as set out previously in the Governance section of this report. Below, where we have referred to ESG risks more broadly, this will include consideration of climate change risks.

The Group's risk management framework takes the form of a Risk Register which is monitored periodically.

At a simple level, the Group Trustee's risk management process comprises identification, assessment, monitoring and control of risk. The Group Trustee currently takes a top-down approach to risk management, which uses their strategic objectives as the starting point for their risk management process.

Climate risks are identified by Group Trustee and their advisors as appropriate. Information from a number of sources is used to help identify risks and the Group Trustee and their advisors are responsible for identifying risks as appropriate. Once risks are identified, they are then evaluated and prioritised based on the overall threat posed to the Group. This helps the Group Trustee build up a picture of the Group's risks more widely and where climate-related risks sit in the overall risk management framework.

The Group Trustee will also undertake risk analysis at the individual asset level. This is known as a bottom-up analysis. In this instance, the Group's investment managers are also responsible for the identification and assessment of climate related risks and opportunities. This approach will use available information to assess the potential impact of climate-related risks to investment performance.

ESG and, in particular, climate related risks can be identified by various parties including the Group Trustee, investment managers or the Group's advisors as part of the ongoing management of the Group. ESG risks are identified as part of the following processes:

- **Investment strategy reviews** – The Group Trustee considers ESG risks as part of the Group's regular investment strategy reviews that are carried out alongside each Actuarial Valuation and refreshed on an annual basis. These reviews cover the extent to which social, environmental and governance considerations are taken into account in the selection, retention and realisation of investments. The Group's Investment Advisors are expected to integrate ESG considerations into their strategy advice and to highlight any key risks that are included within any potential investment strategy.
- **Valuations and covenant reviews** – The Group Trustee also considers ESG risks as part of the triennial Actuarial Valuation process ensuring that this analysis considers the funding, covenant and investment risks in a joined up way. The Group Actuary will incorporate the consideration of ESG risks in the actuarial assumptions advice and any projections which are considered to evaluate the possible long-term funding outcomes for the Group. When assessing the employer's covenant the Group Trustee takes into account the ESG risks to the employer.
- **Considering asset classes** – When assessing new asset classes, potential ESG risks are assessed and discussed as part of the training provided to the Group Trustee. Key ESG risks are taken into account when comparing alternative options.
- **Selection of investment managers** – When appointing a new investment manager, the Group's Investment Advisor provides information and their view on each manager's ESG policy and capabilities. Each manager is also asked to provide information regarding their own ESG risk management processes as

part of the selection process. This information allows the Group Trustee to identify potential risks when comparing potential providers. The Group's policy also requires Investment Managers to engage on ESG issues and only divest once attempts to engage have been exhausted or for reasons other than ESG/ climate related issues.

- **Individual mandates and investments** – The Group Trustee also undertake risk analysis at the individual asset level and have adopted enhanced management of ESG issues and climate change, including new potential investment products. In this instance, the Group's investment managers are responsible for the identification and assessment of ESG, including climate related, risks and opportunities and will be expected to identify and disclose these risks to the Group Trustee in the following ways:
 - As part of their regular reporting as investment strategy is subject to regular review by the Group Trustee;
 - During their presentations when meeting with the Group Trustee;
 - By providing climate metric data in line with the TCFD requirements; and
 - By providing any relevant scenario analysis.

The Group Trustee meets with each of the Group's current investment managers regularly to gain an in-depth understanding of each managers' process and the risks inherent in each of the mandates. At these meetings each manager is asked to identify their view of the key ESG related risks facing the portfolio at that time. This assessment may be qualitative or quantitative depending on the type of mandate and data available. Any key risks identified are discussed by the Group Trustee and monitored on an ongoing basis within the climate risk dashboard.

We note that evaluation of ESG related risks and opportunities is based on relevant information and tools being available, as well as the quantification of ESG and climate-related risks and opportunities being a developing area based on continuously emerging information and evolving best practice. The Group Trustee actively engage with all managers to promote improvement in this area.

Risk Management Disclosure 2: Describe the organisation's process for managing climate-related risks

Once risks are identified and added to the Risk Register, they are then evaluated and prioritised based on the overall threat posed to the Group.

The Group Trustee prioritise risks based on the size, scope and materiality of the risk event. This includes rating the likelihood and impact of the risk event to produce a score reflecting the threat that the risk event poses to the Group, then making a decision on the appropriate action (mitigation, control or acceptance) based on this score and available courses of action. Rating the risk's likelihood and impact may be informed by scenario analysis and calculated metrics where relevant. This helps the Group Trustee build up a picture of the Group's risks more widely and where ESG risks sit in the overall risk management framework.

Risks and opportunities should be considered in absolute terms and in relation to the risk appetite of the Group. Risk appetite can be defined in terms of a willingness to take risk or the acceptability of risk.

Once the risks facing the Group have been considered and prioritised, mitigation strategies will be established and monitored to ensure that they remain effective. The Group Trustee will delegate the management of certain risks to other parties, as set out in the Governance section. Risks that are deemed to be high in likelihood, impact, or both after allowing for mitigating controls are deemed to take priority for future action.

An action in the context of risk management will aim to either introduce an additional control to mitigate the likelihood of a risk occurring or reduce the impact of a risk should it occur. This discussion will also consider whether additional Group Trustee training is required.

Expectations of investment managers

The Group Trustee's expectations of the investment managers with regard to the integration of ESG risks are set out in the Group's Statement of Investment Principles (SIP) and Responsible Investment policy. The Group Trustee monitors the ESG activities of all managers through regular reporting and meetings, as set out above.

In summary, the Group Trustee will expect all of its investment managers to:

- be aware of the investment risks and opportunities associated with climate change;
- incorporate climate considerations into the investment decision making practices and processes; and
- monitor and review companies and assets in relation to their approach to climate change.

The Group Trustee engages with current investment managers where risks have been identified to agree a plan of action. This may include setting specific targets for certain mandates and more regular monitoring of mandates at higher risk. In some circumstances, this could include instructing managers to disinvest from certain investments, e.g. sectors or geographical regions, or by disinvesting from specific investment mandates. A carbon footprint and ESG review is also undertaken and reported to the Group Trustee to assist with engagement.

The Group Trustee maintains an ESG log which is updated based on the information provided by, and the discussions held with, the Group's investment managers.

In addition, the Group Trustee, with the assistance of its Investment Advisors, prepares an annual Implementation Statement which assesses the engagement and voting activities of investment managers and is used to monitor managers' activities in this area.

The Group's approach to stewardship is also a key aspect of the management of climate-related risk. The Group Trustee expects their investment managers to consider and take appropriate steps to manage climate-related risks within their funds, including engagement with underlying investee companies on their management of climate risks.

The Group Trustee has a documented policy that sets out the processes by which investee companies are engaged with on climate-related issues. This is done through delegated engagement via the investment managers and ongoing monitoring of this engagement activity undertaken by the Group Trustee and their investment advisor. This includes understanding the asset managers' approach to voting in relation to climate-related issues and engaging with those asset managers where the Group Trustee feels that the manager's approach is not aligned with the Group Trustee's agreed objectives for the Group.

The Group Trustee receives annual reports from their investment advisor on engagement and voting activities of investment managers and use these to monitor performance in line with the agreed beliefs and resulting expectations for investment managers as well as any requirements within mandates in place. Where investment managers are not performing in line with expectations, the Group Trustee engages further with the manager to understand why and work to improve the performance, further to which the Group Trustee will consider undertaking a formal review if this does not occur.

Risk Management Disclosure 3: Describe how processes for identifying, assessing and managing climate-related risks are integrated into the organisation's overall risk management

As set out under Risk Management Disclosure 1, the management of ESG risks is integrated into the Group's current risk management processes in the following ways, with all risks considered in the context of the overall risks inherent in any strategy:

- **Valuations and covenant reviews** – When assessing the employer's covenant the Group Trustee reviews the employer's plans to manage the ESG risks identified. The Group Trustee considers the extent to which any adjustment is needed to the funding approach or strategy as a result of any ESG risks identified through the "identifying" stage described above. This will be considered in the context of the investment and covenant risks faced by the Group and may consider the appropriateness of actuarial assumptions and of overall security provided to the Group.
- **Setting strategy and choosing asset classes** – Determining whether exposure to any asset class should be reduced, increased or avoided in light of the ESG risks identified.
- **Selection of investment managers** – The Group Trustee considers whether or not to invest with managers whose mandates are expected to introduce an unacceptable level of risk or who do not have adequate processes for the identification and management of ESG risks.
- **Monitoring current investment managers / individual mandates and investments** – The Group Trustee expects the Group's investment managers to manage the ESG risks identified within their own mandates by:
 - Integrating the analysis of these risks into the overall assessment of any potential investment (where this is possible to do e.g. in actively managed mandates).
 - Engaging with investee companies where risks have been identified, to understand and encourage their management of ESG and in particular climate related risks.

The Group Trustee sets the overall strategy and risk budget for the Group and covers responsible investment matters, including the integration of climate change within the Group's investment strategies.

Climate change is included within the Group's risk register in the context of the risk of the investment strategy or investment managers underperforming. Relevant controls and mitigating actions are also documented. The risk register is reviewed periodically by the Group Trustee.

As set out above the Group will regularly monitor and challenge all of its investment managers to support any formal Net Zero commitments made and the targets set by the Group. This will also include a review of the voting and engagement activities carried out in respect of climate change.

Consistent with the Group's investment strategy, engagement is also a long-term approach with the goal for companies and economies globally to be carbon neutral by 2050 and to enable those companies to transition effectively to a carbon neutral economy.

Climate risks are identified by the Group Trustee and their advisors as appropriate. These risks are then added to the Group's risk register which forms part of the Group's overarching Integrated Risk Management approach and framework. This includes rating the likelihood and impact of the risk event to produce a score reflecting the threat that a potential climate risk event poses to the Group, then deciding on the appropriate action (mitigation, control, or acceptance) based on this score and available courses of action. Appropriate controls and mitigating actions are determined and put in place as part of the process to add these risks to the Risk Register.

Metrics and targets

Metrics and targets Disclosure 1: Disclose the metrics used by the organisation to assess climate-related risks and opportunities in line with its strategy and risk management process

The Group Trustee receives carbon footprinting analysis and wider ESG reporting from Hymans Robertson on an annual basis. The monitoring carried out covers a variety of climate-related metrics based on the underlying stocks held within the Group's mandates. The Group Trustee believes it is important to consider a variety of metrics on a holistic basis, covering both forward and backward-looking metrics.

Carbon equivalent risk metrics will expect to form an important part of the Group's investment decision-making process to measure, manage and disclose climate risk. The selected metrics will also aid the Group Trustee in identifying opportunities for further engagement with investment managers and underlying investee companies.

This report focusses on the mandatory metrics which all pension schemes are asked to monitor and report against for TCFD purposes. The Group Trustee appreciates that no single metric is perfect and therefore monitors a suite of metrics. This approach enables the Group Trustee to take a more holistic view of the risks facing the Group's investment strategy.

The TCFD requirements have set out clearly defined expectations for the categories of metrics that must be measured and reported on. For clarity, the Group Trustee has set out those requirements below:

- One **absolute emissions metric** is to be chosen and monitored;
 - There is only one choice of absolute emissions metric – Total Greenhouse Gas (GHG) emissions.
- One **emissions intensity metric** is to be chosen and monitored;
 - There is a choice of Carbon Footprint or Weighted Average Carbon Intensity for the emissions intensity-based metric.
- An **additional climate change metric** that is non-emissions based;
 - There is a wide variety of outcome based and process-based metrics that may be chosen.
- A **forward-looking portfolio alignment metric**:
 - There are three different portfolio alignment metrics that may be chosen.

The Group Trustee has chosen to monitor the metrics set out in the table overleaf.

Type	Metric	Measurement
Absolute Emissions Metric	Total Greenhouse Gas (GHG) emissions	The total volume of scope 1 and scope 2 emissions from the Group's assets – Measured in tons of CO _{2e} .
Emissions Intensity Based Metric	Carbon footprint	The total volume of scope 1 and scope 2 emissions per unit of capital invested from the Group's assets – Measured in tons CO _{2e} per £m invested.
	Weighted Average Carbon Intensity (WACI)	The total volume of scope 1 and scope 2 emissions per unit of sales for each portfolio company, weighted by the size of allocation to each company within the Group's assets – Measured in tons CO _{2e} per \$m revenue generated.
Additional climate change metric (non-emissions based)	Data quality – A measure of the level of actual and estimated data available from the Group's managers.	% of portfolio at year end for which engagement / voting on climate risk has been substantial;
		% of board meetings per year where climate risk is a substantial agenda item;
		% of portfolio at year end for which climate related metrics of acceptable quality were obtained.
Portfolio alignment metric	Binary target measurements	% of underlying assets that have specific net zero targets

Many climate-related metrics are based on the level of Greenhouse Gas (GHG) emissions that are related to a particular asset or investment. Greenhouse Gas emissions are categorised into 3 scopes:

- **Scope 1** – All direct GHG emissions from sources owned or controlled by the company (e.g., emissions from factory operations).
- **Scope 2** – Indirect GHG emissions that occur from the generation of purchased energy consumed by the company.
- **Scope 3** – Indirect emissions that arise as a consequence of the activities of the company e.g. supply chains and the use and disposal of their products. These are sometimes the greatest share of a carbon footprint, covering emissions associated with business travel, procurement, production of inputs, use of outputs, waste and water.

Although the Group Trustee aims to gather scope 3 data for the Group's investments where available, this is currently not well reported on, and so the Group Trustee has split out the scope 3 data in this year's report where available in order to be more clear as to where data gaps lie/due to lack of information received by managers/due to lack of reported data.

The Group Trustee acknowledges that there are limitations in the data available from investee companies on emissions of greenhouse gases, particularly for scope 3 emissions as noted above. Where these limitations in data exist, the data may be estimated or not yet reported/missing. The Group Trustee will seek to obtain information, where it is currently missing, for future assessments. In the meantime, the results of the above metrics have been understood to be reflective of the portfolio, but the limitations of data availability is noted when using the metrics for decision-making purposes.

Metrics and targets Disclosure 2: Disclose Scope 1, Scope 2 and if appropriate Scope 3 greenhouse gas (GHG) emissions and the related risks

The table below sets out a summary of the greenhouse gas emissions data provided by the Group Trustee's investment managers and the measurement of each metric using this data. Due to the nature of some mandates and the difficulty in collecting emissions data on a more frequent basis, the data provided is not all at the same date. Data has been sourced from a combination of the investment managers and the Group Trustee's investment advisor, utilising data from a third party source for listed assets.

Asset Class	Manager	Long-term importance	Date of measurement	Total carbon emissions – Scope 1+2 (tCO ₂)	Carbon footprint – Scope 1+2 (tCO ₂ /£m invested)	WACI – scope 1+2 (tCO ₂ /\$m sales)
Global Equities (Passive)	SSGA	Low	31/12/22	8,051	262	218
Global Equities (Active)	Baillie Gifford	Low	31/12/22	2,101	78	140
Property ^[i]	CBRE	Low	31/12/21	692	0.02	0.003
Corporate Bonds (B&M)	LGIM	High	31/12/22	22,579	72	156
Corporate Bonds (Passive)	SSGA	Low	31/12/22	7,678	64	81
Asset Backed Securities (ABS)	Insight	High	N/A	11,399 ^[ii]	N/A	N/A
Secured Finance	Insight	High	N/A	102 ^[ii]	N/A	N/A
Illiquid Debt	Partners	Very low	N/A	N/A	N/A	N/A
Liability Driven Investment (LDI) ^[iii]	LGIM	High	31/03/23	86,546	59	132

Notes: Figures rounded to nearest whole number. Total carbon emissions is calculated as carbon footprint multiplied by size of the Group's holding in £m [i] Property analysis as at 31 December 2021 as 2022 data was not available at the time of writing. The carbon footprint and WACI of the property portfolio has been calculated as tCO₂/m² of floor space. [ii] Data coverage is very limited across the mandates [iii] In our experience, LDI data is available but comes heavily caveated and with numerous disclaimers/limitations. Given the strategic importance of LDI to UK private sector DB schemes we expect LDI managers will face significant pressure from the industry to improve their disclosure but is currently unable to be aggregated with other carbon data. Total carbon emissions for LDI mandate includes leveraged positions and carbon footprint is measured in tCO₂/ \$m invested.

The methodology for scope 3 emissions is currently less well defined than for scope 1 and 2 emissions; therefore, this has been kept separate from the table above. Additionally, in part due to the complexities of measuring scope 3 emissions in a consistent way, data for scope 3 emissions is a lot harder to gather from the fund managers and underlying investee companies. As a result, and as may be expected, the Group's assets have poorer coverage of scope 3 data than for scope 1 and 2. The scope 3 emissions, where available, have been set out in the table below.

Asset Class	Manager	Long-term importance	Date of measurement	Total carbon emissions – Scope 3 (tCO ₂)	Carbon footprint – Scope 3 (tCO ₂ /\$m invested)	WACI – scope 3 (tCO ₂ /\$m sales)
Global Equities (Passive)	SSGA	Low	31/12/22	47,633	1,549.6	1,279.1
Global Equities (Active)	Baillie Gifford	Low	31/12/22	8,192	303.7	675.0
Property^[i]	CBRE	Low	31/12/21	6,831	0.01	0.01
Corporate Bonds (B&M)	LGIM	High	31/12/22	109,233	348.8	492.1
Corporate Bonds (Passive)	SSGA	Low	31/12/22	118,308	986.1	706.2
Asset Backed Securities (ABS)^[ii]	Insight	High	N/A	N/A	N/A	N/A
Secured Finance^[iii]	Insight	High	N/A	N/A	N/A	N/A
Illiquid Debt^[iii]	Partners	Very low	N/A	N/A	N/A	N/A
Liability Driven Investment (LDI)^[iii]	LGIM	High	N/A	N/A	N/A	N/A

Notes: Figures rounded to nearest whole number. Carbon footprint is measured in \$m invested for scope 3 emissions as £m is not available from the third party data supplier for scope 3 emissions. Total carbon emissions is calculated as carbon footprint multiplied by size of the Group's holding in £m [i] Property analysis as at 31 December 2021 as 2022 data was not available at the time of writing. The carbon footprint and WACI of the property portfolio has been calculated as tCO₂/m² of floor space. [ii] Scope 3 data was not available at the time of writing. The Group Trustee will continue to engage with the relevant managers to drive improvements in data coverage and quality going forward, with a view to including more meaningful figures in future reports.

The other metrics chosen by the Group Trustee for the Group's assets were also measured over the period, as shown in the table below.

Asset Class	Manager	Date of measurement	% of underlying assets that have specific net zero targets	% of portfolio at year end for which engagement / voting on climate risk has been substantial	% of board meetings per year where climate risk is a substantial agenda item	% of portfolio at year end for which climate related metrics of acceptable quality were obtained
Global Equities (Passive)	SSGA	31/03/23	c.65%	c.16%	c.19% (year to 31 December 2022)	c.85%
Global Equities (Active)	Baillie Gifford	31/03/23	c.24%	c.24% engagement / c.7% voting	N/A	c.80%
Property	CBRE	N/A	100%	N/A	N/A	N/A
Corporate Bonds (B&M)	LGIM	31/03/23	c.28%	c.32%	N/A	c.66%
Corporate Bonds (Passive)	SSGA	31/03/23	c.53%	N/A	N/A	c.95%
Asset Backed Securities (ABS)	Insight	N/A	N/A	N/A	N/A	N/A
Secured Finance	Insight	N/A	N/A	N/A	N/A	N/A
Secured Finance II	Insight	N/A	N/A	N/A	N/A	N/A
Illiquid Debt	Partners	N/A	N/A	N/A	N/A	N/A
Liability Driven Investment (LDI)	LGIM	N/A	N/A	N/A	N/A	N/A

Notes: Data from Investment Managers.

Currently, a proportion of the Group's holdings are unable to be measured across the different metrics. This is in part due to the nature of some investments and the difficulties in measuring climate metrics across these types of investments. Some of the Group's investment managers also do not currently monitor these metrics, particularly the non-emissions based metrics, and so are unable to provide data at this point in time. As part of ongoing dialogue with managers, the Group Trustee will strive to improve the managers' provision of non-emissions data over time, to ensure it receives a fuller picture of the Group's position.

In attempts to address this, the Group Trustee has discussed this with Insight at the Q1 2023 Investment Meeting as well as set data quality targets for the Group's mandates with Insight of which the manager is aware. Data availability and quality will remain a topic for discussion when meeting with the manager.

Metrics Data – Group level

The carbon data included within this section only considers the SSGA RAFI, Baillie Gifford, LGIM B&M and SSGA corporate bond mandates. As at 31 December 2022, these mandates accounted for c28% of the Group's assets. Data for the Group's other mandates were either unable to be measured or unable to be aggregated with other mandates.

The Group has a Weighted Average Carbon Intensity ('WACI') as at 31 December 2022 of 141 tCO₂/\$m Sales. This is a reduction of c45% versus the position as at 31 December 2021 but remains higher relative to an equivalent figure of 89 for the corresponding composite Group benchmark.

The Group's equity holdings contribute 61% to the total WACI despite representing only 11% of assets considered in the analysis. The SSGA RAFI mandate is the largest contributor with the SSGA corporate bond mandate the best performer when considering its contribution to total WACI relative to its size.

The Group's Baillie Gifford mandate (based on 31 December 2022) has consistently been less carbon intensive than an equivalent investment in the corresponding benchmark over the past five years with the opposite true for the SSGA RAFI holding.

As discussed in the strategy section within disclosure 2, the Group Trustee has worked with Hymans Robertson and one of the Group's appointed managers to evolve the existing LGIM Buy & Maintain corporate bond mandate to incorporate explicit ESG related investment guidelines, to both reduce the Group's exposure to climate risk and align the portfolio to the UN Sustainable Development Goals (SDGs). This resulted in a significant decrease in the WACI of c58% compared to 31 December 2021 data for the mandate.

Despite taking steps to reduce the Group's carbon risk metrics, the results indicate that the Group underperforms the aggregate benchmark. As such, the Group Trustee will look for further ways to improve these results and the Group expects to update its carbon risk metrics data on an annual basis.

In future reports, the Group Trustee will monitor the metrics on an at least annual basis and identify whether performance has improved or deteriorated over time. Where performance has deteriorated, the Group Trustee will engage further to understand the reasoning and undertake any appropriate remedial actions. The metrics will also be used to monitor the Group's performance in line with climate-related targets (see Metrics and Targets Disclosure 3).

The Group Trustee acknowledge that at this point, limited data is available on industry wide comparisons and the Group Trustee has relied heavily on the benchmark set for each fund and the market knowledge of its advisors in understanding how well the funds are performing and whether further improvements could be made at this stage.

Metrics and targets Disclosure 3: Describe the targets used by the organisation to manage climate-related risks and opportunities and performance against targets

Given the nature of the assets and availability of data, the Group Trustee consider targets on a mandate-by-mandate basis in order to appropriately reflect the action that can be taken and the key priorities for that

mandate. For example, for some mandates the current priority is to improve data in the first instance to enable the Group Trustee to set more meaningful targets, whereas for other mandates, agreeing a path towards carbon emissions reduction and net zero for all holdings is the key priority.

Emissions reduction targets

The Group Trustee will report on the performance of the following targets as far as the Group Trustee is able to do so in line with TCFD requirements. The Group Trustee aims to achieve:

- 50% reduction in Scope 1 and 2 WACI emissions by 2030, using the average WACI from the Group's carbon reports for 2020 and 2021 as the base line;
- 15% reduction in Scope 1 and 2 WACI emissions by 2025 relative to the baseline.

From the Group's 2022 climate report, there has been a reduction in Scope 1 and 2 WACI emissions by c40% compared to the baseline position as described above (2022: 141 versus 233 baseline). This was largely driven by the change to incorporate explicit ESG related investment guidelines into the existing LGIM B&M corporate bond mandate. This has resulted in the 2025 emissions reduction target already being surpassed. The Group Trustee continue to explore options for incorporating climate aligned mandates where possible and are in the process of onboarding an ESG tilted global passive equity mandate. The Group Trustee will review the targets each year to ensure they remain appropriate.

Data Quality Target

Given the current low levels of data available from some of the Group's investment managers and the Group Trustee's focus on engagement with managers to improve this data, the Group Trustee has set a data quality target for some of the Group's mandates where data availability is most limited.

To date, the Group Trustee has agreed the following targets for the Group's investment mandates:

- LGIM Buy & maintain to achieve a data quality score of 3 within the next 2 years (up from 2 at present day).
- CBRE UK property mandate to achieve a data quality score of 3 within the next 5 years (up from 2 at present day).
- For the two mandates currently scoring 1 for data quality that are of long-term strategic importance to the Group (Insight High Grade ABS, Insight Secured Finance I), both mandates to achieve a score of at least 2 within the next 5 years. It should be noted that data coverage and transparency across these asset classes is very limited and any wider industry changes (e.g. development of methods for ABS metrics estimation) would help in achieving this goal.

The Group Trustee notes that efforts in improving data quality will be significantly limited by third parties' ability and willingness to provide data. As such, the Group Trustee will use regular engagement with the managers as the main action to improve availability and quality of the climate data. The Group Trustee agreed to use the scoring system outlined below for monitoring and assessing the managers' progress, and setting data quality targets. Please note that all percentages refer to portfolio coverage, i.e., the % of portfolio where given type of data is available.

Score	Emissions data requirements	Current mandate score*
4 – Excellent	At least 90% of actual data available OR >95% overall coverage including at least 75% actual data	SSGA RAFI, Baillie Gifford
3 – Good	At least 65% actual data available OR >75% overall coverage including at least 50% actual data	SSGA corporate bonds
2 – Adequate	At least 45% of actual data available OR >75% overall coverage using estimates	CBRE Property, LGIM Buy & Maintain corporate bonds, LGIM LDI

1 – Poor	Less than 45% of actual data available OR <75% overall coverage using estimates	Insight High Grade, Secured Finance I, Partners Group Private Debt
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*Source: Investment Managers and the Group's carbon footprinting report (MSCI). Coverage only considers emissions data. Accurate as at November 2022.

Net zero ambition

In addition to the targets above, the Group Trustee aims to achieve a net zero position for all Group assets by 2050. Whilst this is not currently a formal target, the Group Trustee will use this aim to guide decisions and targets to be set within the Group's individual mandates.

The Group Trustee is comfortable that this is in line with its fiduciary responsibility to the Group and its members. The Group Trustee's key aim is to make a real-world impact on global emissions, which will be achieved through engagement with the Group's investment managers in relation to their policies and processes, as well as the reallocation of capital where appropriate. The Group Trustee will continue to work with the Group's managers to gather the relevant data to allow well informed targets to be put in place which are appropriate for each asset class. The Group Trustee expects different parts of the portfolio to follow different trajectories as it works towards this aim. This commitment is based on the expectation that governments and policy makers will deliver on their commitments to achieve the 1.5°C temperature goal of the Paris Agreement.

Targets Summary

The Group Trustee will undertake an annual review of the targets, including interim targets, to ensure that they remain appropriate and challenging, given the ever changing, economic, environmental and technological environment. These reviews will look for opportunities to introduce Net Zero targets where this is considered reasonable.

As the above targets were set during the 2022/2023 scheme year, the Group Trustee are not yet able to report performance against all targets. Progress against these targets and any other targets set for the Group's other mandates will be included in future reports.

The ability for diversified investors (such as pension funds) to set meaningful climate targets is inhibited by the limited availability of credible methodologies and data currently available. Like most investors, the Group is supportive of the development of target-setting methodologies, and of the increasing completeness of carbon datasets. The Group wishes to set meaningful and challenging climate targets for its investment portfolio and work is underway to assess options within the limitations of currently available data.

Appendix 1 – Responsible Investment Glossary

Fiduciary responsibilities: The responsibilities of the Group Trustee to act in the best interests of the Group's beneficiaries (i.e. Group members).

Systemic risk: Systematic risk refers to a risk that impacts the entire market, not just a particular stock or industry.

Carbon neutral: Carbon neutrality is the state where the amount of carbon emissions being emitted is balanced out by the removal of the same amount of emissions. It can be achieved through carbon offsetting.

Net Zero: Net zero refers to the amount of all greenhouse gases (which includes but is not limited to carbon dioxide) being emitted being equal to those removed. It typically also includes reduction of total emissions as much as possible, with only the remaining unavoidable emissions being offset.

Carbon pricing: Carbon pricing assesses and quantifies the external costs of greenhouse gas emissions, for example damage to crops or loss of property from flooding and sea level rises, and relays these costs back to the source of the emissions through a price, usually in the form of a price on the carbon dioxide (CO₂) emitted.

Macro-economic: The area of economics concerning with large-scale (e.g. national or international) or general economic factors, such as interest rates and inflation.

Low carbon economy: An economy based on energy sources that produce low levels of greenhouse gas (GHG) emissions.

Stewardship Code: The UK Stewardship Code 2020 sets high stewardship standards for those investing money on behalf of UK savers and pensioners, and those that support them. 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. To become a signatory to the Code, organisations must submit to the FRC a Stewardship Report demonstrating how they have applied the Code's Principles in the previous 12 months.

Scope 1: All Direct Emissions from the activities of an organisation or under their control. Including fuel combustion on site such as gas boilers, fleet vehicles and air-conditioning leaks.

Scope 2: Indirect Emissions from electricity purchased and used by the organisation. Emissions are created during the production of the energy and eventually used by the organisation.

Scope 3: All Other Indirect Emissions from activities of the organisation, occurring from sources that they do not own or control. These are usually the greatest share of the carbon footprint, covering emissions associated with business travel, procurement, waste and water.

IIGCC: Institutional Investor Group on Climate Change: membership body for investor collaboration on climate change, comprising 330+ members, mainly pension funds and asset managers responsible for €39+ trillion in assets under management.

Responsible Investment: The integration of ESG factors into investment decision making and asset stewardship practices.

Transition pathways: Technologically achievable, scientifically-derived, decarbonisation roadmaps which are being developed for high-emissions sectors.

Financial Stability Board

The Financial Stability Board is an international body that monitors and makes recommendations about the global financial system. It was established after the G20 London summit in April 2009 as a successor to the Financial Stability Forum.

Greenhouse Gases (“GHG”)

Greenhouse gases are gases in the Earth’s atmosphere that are capable of absorbing infrared radiation and thereby trap and hold heat in the atmosphere. The main greenhouse gases are:

- water vapour
- carbon dioxide (“CO₂”)
- methane (“CH₄”)
- nitrous oxide (“N₂O”).

Weighted Average Carbon Intensity

A measure of a portfolio’s exposure to carbon-intense companies. This is expressed in terms of tons of CO₂ equivalent emitted per million dollars of revenue, weighted by the size of the allocation to each company. Is measured using scope 1 + scope 2 emissions. Scope 1 emissions are those from sources owned or controlled by the company, typically direct combustion of fuel as in a furnace or vehicle. Scope 2 emissions are those caused by the generation of electricity purchased by the company.

Total Carbon Emissions

This represents the portfolios estimated Scope 1 + Scope 2 greenhouse gas emissions. This is expressed in terms of thousand tons of CO₂ equivalent emitted by the companies invested in by the portfolio, weighted by the size of the allocation to each company.

TCFD: Taskforce on Climate-Related Financial Disclosures.

Appendix 2 – Climate Scenario Modelling - Reliances and Limitations

This modelling is a form of asset-liability modelling (“ALM”).

The Group Trustee’s advisor’s ESS (Economic Scenario Service) produces stochastic projections for a wide array of asset class returns and other economic factors, which can be used as part of any quantitative risk management exercise - whether that be carrying out asset-liability modelling (ALM), strategic asset allocations (SAA), or any other exercise designed to quantify financial risk exposure. The ESS models are regularly updated to capture the latest market conditions and are maintained and documented by a dedicated specialist team. The models don’t make explicit assumptions for climate change or any other economic/political factors like trade wars, pandemics, etc.

However, climate change can be factored in indirectly by weighting the existing ESS outputs to ‘tilt towards’ possible climate scenarios. For each climate scenario, a weight is calculated for each of the 5,000 projections run for the ALM exercise so that the projections with higher volatility in the specified time period are emphasised in that scenario.

All scenarios involve a period of ‘stress’, which happens at different points over the selected modelling horizon. Each period of stress encompasses a combination of transition and physical risks, but whereas the early periods are assumed to be nearly all transition risk, the later periods include more physical risk as the impact of climate change is felt. It has therefore been assumed that the later the stress happens, the more intense the climate risk impact will be.

The approach taken is to assess the impact of climate change on the whole range of projected outcomes for the Group’s funding position (assets and liabilities combined) and the Group Trustee has not carried out detailed analysis of the impact on the assets and liabilities independently. The impact of the various scenarios tested is that the range of funding outcomes becomes wider and more uncertain, rather than having a direct impact on Group assets or liabilities independently.

Please note that impact of climate change on longevity and sponsor covenant is **not** included in the analysis.

Appendix 3 – Climate Risk Dashboard – asset class level

SSE Southern Group of the ESPS Climate Risks & Opportunities Dashboard - Manager level									
Last update: Feb-23									
Asset class	Manager/ Current allocation	Materiality of asset class in the long-term strategy	Identified Risks	Impact			Mitigation/Actions		Identified Opportunities
				Short term	Medium term	Long term	Identified	Action owner & Timescales for next steps	
Active Equity	Baillie Gifford 2.5%	Low/ Medium Due to be removed before hitting 100% de-risking trigger.	<p>'Large exposure to US and Emerging Markets (c.68%) where climate reporting and disclosure typically lags Europe.</p> <p>Relatively concentrated portfolio with 91 holdings and top 10 accounting for c28% of portfolio. Potential of magnified impact of increased regulation on certain sectors/ regions</p> <p>Exposure (c.21%) to energy, industrials and materials sectors which could be most acutely impacted by effects of climate change.</p>	Medium	N/A	N/A	<p>Group Trustee has set Group wide emissions targets as part of TCFD regulations which includes this mandate.</p> <p>Group considering switching global equity allocation to Global ESG aligned tracker fund.</p> <p>Manager is engaging with companies on adequate carbon disclosure with goal for all companies to have at least scope 1 and 2 emissions available by end 2023.</p> <p>Manager is engaging with companies on adequate carbon reduction targets with 2030 target for over 90% of companies to have appropriately robust targets in place.</p>	Owner: Group Trustee/ Hymans Timescale: end 2025	<p>'Mandate invests in companies that will play a part in contributing to net zero transition.</p> <p>Manager is often large shareholder so can influence companies on net zero strategy.</p> <p>Manager has produced TCFD report for the mandate including assessment of transition role and net zero commitments for underlying holdings.</p> <p>Paris-aligned version of mandate available.</p>
Passive Equity	State Street 2.5%	Low/ Medium Due to be removed before hitting 100% de-risking trigger.	<p>Large exposure to US and Emerging Markets (c.60%) where climate reporting and disclosure typically lags Europe.</p> <p>Exposure to utilities, industrials, energy and materials sector (c.30%) which could be most acutely impacted by effects of climate change.</p>	Medium	N/A	N/A	<p>Group Trustee has set Group wide emissions targets as part of TCFD regulations which includes mandate.</p> <p>Group considering switching global equity allocation to Global ESG aligned tracker fund.</p> <p>Manager has set target to increase AUM invested in material sectors (carbon intensive sectors) that are achieving net zero or aligned to net zero to 100% by 2040.</p> <p>Manager aims to ensure 70% of emissions in material sectors are net zero, aligned with a net zero pathway or subject of direct or collective engagement and stewardship action and increase this to at least 90% by 2030.</p>	Owner: Group Trustee/ Hymans Timescale: end 2025	<p>Manager expanded their expectations on climate disclosures and published disclosure expectations for effective climate transition plans.</p> <p>Manager updated voting policy to note they will vote against directors when expectations aren't met.</p>

Property	CBRE 5.0%	Low To be removed in a phased way.	<p>Holdings are fully concentrated in the UK, which fully exposes itself to risk of increasing regulation in the UK.</p> <p>Potential for new emissions and efficiency regulations to negatively impact holdings</p> <p>Exposure to tenants whose business and therefore rents may be impacted following the impacts of transition risks.</p> <p>Risk of stranded assets, not meeting the green transition criteria.</p> <p>Tax imposed on property owners for carbon embodied in the buildings.</p>	Low	N/A	N/A	<p>Group Trustee has set manager data quality improvement target over the next 5 years and will engage with manager at Investment Meetings on this.</p> <p>Manager is in the process of finalising its firm-wide climate report, aligned with TCFD which will include Firm-level updates on carbon emissions targets.</p>	Owner: CBRE Timescale: end 2028 for data quality target	Limited
Buy & Maintain Corporate Bonds	LGIM 17.5%	High Likely to form part of the Group's long term strategy	<p>Large exposure to US issuers where climate reporting and disclosure typically lags Europe.</p> <p>Risk that ability of underlying investee companies to service debt could be impacted by both transition and physical risks given mandate forms part of Group's long term strategy.</p>	Low	Low	Medium	<p>Group Trustee has set Group wide emissions targets as part of TCFD regulations which includes mandate.</p> <p>Group Trustee has set manager data quality improvement target over the next 2 years and will engage with manager at Investment Meetings on this.</p> <p>Group incorporated explicit ESG related investment guidelines for mandate, to both reduce the Group's exposure to climate risk and align the portfolio to the UN Sustainable Development Goals (SDGs).</p> <p>See LDI section for LGIM company-wide actions.</p>	Owner: Group Trustee/ Hymans	Limited beyond steps already taken
Corporate Bonds (Passive)	State Street 7.5%	Low Unlikely to form part of long term strategy	<p>Relatively high exposure to corporate utilities sector c.10%, which could be impacted by effects of climate change.</p> <p>Risk that ability of underlying investee companies to service debt could be impacted by shorter term transition risks.</p>	Low	N/A	N/A	<p>Group Trustee has set Group wide emissions targets as part of TCFD regulations which includes mandate.</p> <p>Manager is currently working to develop a framework and appropriate targets. No formal commitments have yet been disclosed.</p>	Owner: State Street Timescale: end 2025	<p>Manager expanded their expectations on climate disclosures and published disclosure expectations for effective climate transition plans.</p> <p>Manager updated voting policy to note they will vote against directors when expectations aren't met.</p>

Asset-Backed Securities (ABS)	Insight 2.5%	High Likely to form part of the Group's long term strategy	Missing or very limited coverage for majority of portfolio. No standard approach for data reporting on asset-backed securities.	Low	Medium	Medium	<p>Group Trustee has set manager data quality improvement target over the next 5 years and will engage with manager at Investment Meetings on this.</p> <p>Securities tend to be short term.</p> <p>Manager working to improve data availability including working with other managers in structured finance space to agree consistent approach.</p> <p>Company wide target in place to reach corporate Net Zero carbon emission for AUM by 2050 or sooner</p>	Owner: Insight Timescale: end 2028 for data quality target	Limited
Secured Finance	Insight 2.5%	High Likely to form part of the Group's long term strategy	Missing or very limited coverage for majority of portfolio. No standard approach for data reporting on secured finance assets.	Low	Medium	Medium	<p>Group Trustee has set manager data quality improvement target over the next 5 years and will engage with manager at Investment Meetings on this.</p> <p>Manager working to improve data availability including working with other managers in structured finance space to agree consistent approach.</p> <p>Company wide target in place to reach corporate Net Zero carbon emission for AUM by 2050 or sooner</p>	Owner: Insight Timescale: end 2028 for data quality target	Limited
Illiquid Debt	Partners Group 0%	Very low. Portfolio currently in run-off	Most of the holdings have matured, with only less than 30 active loan holdings remaining.	Low	N/A	N/A	<p>Manager has made a firm level commitment to the Paris Agreement and managing its investment portfolio towards the objectives of this agreement.</p> <p>Manager increasingly used ESG margin ratchets in the loan documentation to influence the investee businesses' carbon approach.</p>	Owner: Partners	Limited

LDI	LGIM 60%	High. Will be significant element of the Group's long term strategy	<p>Climate change impact on government borrowing and expenditures</p> <p>Government not meeting its climate objectives.</p> <p>No standardised approach for reporting on derivative climate exposure - given could be facing counterparties using profits to fund carbon intensive businesses.</p>	Low	Medium	Medium	<p>Government has set Paris Accord aligned emissions targets.</p> <p>LDI strategies form large part of LGIM's AUM and so incentive for manager to improve data coverage and ESG reporting for LDI.</p> <p>LGIM were a founding signatory to the Net Zero Asset Managers Initiative (NZAMI) and as part of this have set an interim net zero alignment target of 70% of AUM by 2030 (excluding derivatives and government bonds)</p> <p>Proprietary software 'Destination@Risk' used to measure climate risks in investors' portfolios.</p> <p>Expects investee companies to have climate transition plan in place which disclose short, medium and long term emission targets that are aligned to a 1.5oC transition.</p>	Owner: LGIM Timescale: TBC	Possibility to invest in more green gilts to lower carbon emissions exposure.
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