

# Nottinghamshire Pension Fund Climate-related Disclosures

*Report prepared in alignment with the recommendations of the TCFD*



November 2022

## Introduction to the TCFD

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. 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. Official supporters of the TCFD total 930 organisations representing a market capitalisation of over \$11 trillion. Disclosure that aligns with the TCFD recommendations currently represents best practice.

The recommendations are based on the financial materiality of climate change. The four elements of recommended disclosures (see Figure 1 below) are designed so as to make TCFD-aligned disclosures comparable, but with sufficient flexibility to account for local circumstances. Examples of pension funds that have been early adopters of the TCFD recommendations include AP2, NEST, PGGM, RPMI Railpen, The Pensions Trust, and Environment Agency Pension Fund.

**Figure 1: TCFD Disclosure Pillars**



The Fund supports the TCFD recommendations as the optimal framework to describe and communicate the steps the Fund is taking to manage climate-related risks and incorporate climate risk management into investment processes. As a pension fund, we are long-term investors and are diversified across asset classes, regions and sectors, making us "universal owners". It is in our interest that the market is able to effectively price climate-related risks and that policymakers are able to address market failure. We believe TCFD-aligned disclosure from asset owners, asset managers, and corporates, is in the best interest of our beneficiaries.

## About this report

This report is Nottinghamshire Pension Fund's (NPF or 'the Fund') third climate-related disclosure report. It describes the way in which climate-related risks are currently managed within the Fund.

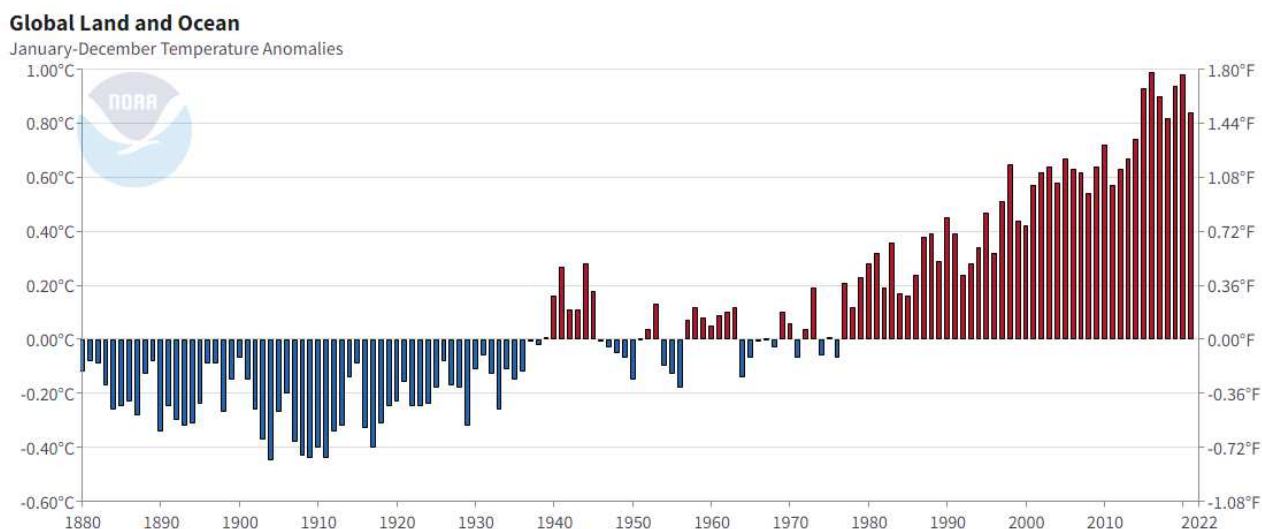
Since October 2020, NPF has received three Climate Risk Reports from the Fund's pooling company, LGPS Central Ltd. These reports provide an in-depth review of the Fund's climate risks under different climate change scenarios across all asset classes. The Fund uses the findings of these reports to inform the Climate Strategy.

In the interests of being transparent with the Fund's beneficiaries and broader stakeholder base, this report discloses the most recent Carbon Risk Metrics Analysis and Climate Scenario Analysis undertaken on the Fund's assets. We expect to update our Carbon Risk Metrics on an annual basis.

## Climate-related risks

Human activities are estimated to have caused approximately 1.0°C of global warming above pre-industrial levels. Most of this warming has occurred in the past 35 years, with the seven warmest years on record taking place since 2010. Between the years 2006-2015, the observed global mean surface temperature was 0.87°C higher than the average over the 1850-1990 period. The overwhelming scientific consensus is that the observed climatic changes are the result primarily of human activities including electricity and heat production, agriculture and land-use change, industry, and transport.

**Figure 2: Graph showing Global Temperature Difference from 20<sup>th</sup> century average.<sup>1</sup>**



In order to mitigate the worst economic impacts of climate change, there must be a large, swift, and globally co-ordinated policy response. Despite this, the majority of climate scientists anticipate that given the current level of climate action, by 2100 the world will be between 2°C and 4°C warmer, with significant regional variations. This is substantially higher than the Paris Climate Change Agreement, which reflects a collective goal to hold the increase in the climate's mean global surface temperature to well below 2°C above preindustrial levels and to pursue efforts to limit the temperature increase to 1.5°C.

<sup>1</sup> NOAA National Centers for Environmental information, Climate at a Glance: Global Time Series, published October 2022, retrieved on November 14, 2022 from <https://www.ncei.noaa.gov/access/monitoring/climate-at-a-glance/global/time-series>

**Figure 3: Selected extracts from the Paris Agreement on climate change. Source: UNFCCC.**

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*Paris Agreement Article 2(1)a*

*Holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C above pre-industrial levels, recognizing that this would significantly reduce the risks and impacts of climate change;*

*Paris Agreement Article 2(1)c*

*Making finance flows consistent with a pathway towards low greenhouse gas emissions and climate-resilient development.*

*Paris Agreement Article 4(1)*

*In order to achieve the long-term temperature goal set out in Article 2, Parties aim to reach global peaking of greenhouse gas emissions as soon as possible, recognizing that peaking will take longer for developing country Parties, and to undertake rapid reductions thereafter in accordance with best available science, so as to achieve a balance between anthropogenic emissions by sources and removals by sinks of greenhouse gases in the second half of this century, on the basis of equity, and in the context of sustainable development and efforts to eradicate poverty.*

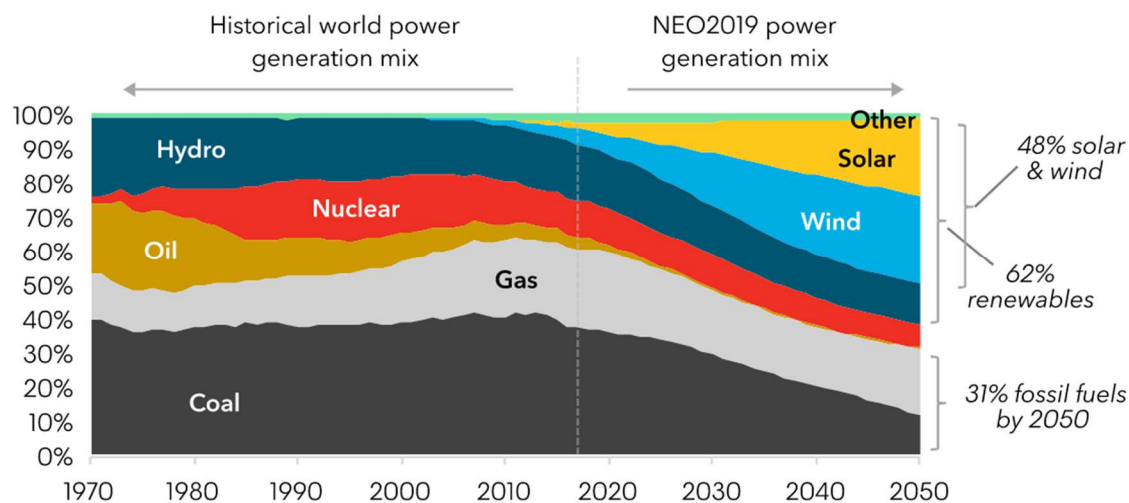
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Given its contribution to global greenhouse gas (GHG) emissions, the energy sector is expected to play a significant role in the long-term decarbonisation of the economy. Figure 4 suggests that in one climate scenario the proportion of coal, oil, and gas in the global power generation mix will shrink to 31% of the total by 2050. It is important to recognise however that not only is the supply of energy expected to be a factor in global decarbonisation, but the demand for energy plays a crucial role too. In addition, the behaviour of private and state-owned energy companies (not commonly invested in by UK pension funds) is as important as their publicly traded counterparts.

The issue faced by diversified investors (such as pension funds) is not limited to the oil & gas and power generation sectors, but also to downstream sectors. Investors focussing exclusively on primary energy suppliers could fail to identify material climate risks in other sectors. Research suggests that the oil & gas sector is not homogeneous with regards to climate risk: were climate policies to affect the oil price, those companies with assets lower down the cost curve are less likely to be financially compromised by those companies with higher-cost assets. Investors that assume each fossil fuel company bears an equal magnitude of climate-related risk could be led towards sub-optimal decision-making.

The Fund recognises that climate-related risks can be financially material, and that the due consideration of climate risk falls within the scope of the Fund's fiduciary duty. Given the Fund's long-dated liabilities and the timeframe in which climate risks could materialise, a holistic approach to risk management covering all sectors and all relevant asset classes is warranted.

**Figure 4: The Bloomberg New Energy Outlook global power generation mix. Source: BloombergNEF.**



## Disclosure Pillars

The TCFD Recommendations set out four disclosure pillars; Governance, Strategy, Risk Management and Metrics and Targets. This TCFD Report is structured in line with Asset Owner TCFD Recommendations by each pillar as follows.

## Governance

### TCFD Recommended Disclosure

#### a) Describe the board's oversight of climate-related risks and opportunities

Roles and responsibilities at the Fund are set out clearly in the Fund's *Governance Compliance Statement*. Overall responsibility for managing the Fund lies with the full Council of Nottinghamshire County Council which has delegated the management and administration of the Fund to the Nottinghamshire Pension Fund Committee.

The Nottinghamshire Pension Fund Committee ("the Committee") is responsible for preparing the Investment Strategy Statement (ISS) and Climate Strategy. The ISS includes the funds approach to responsible investment and recognises climate change as a factor that could have a serious impact on financial markets. The Climate Strategy is premised on 10 foundational evidence-based beliefs about climate risk, considering climate science, the energy transition, and climate stewardship. The Climate Change Strategy is reviewed on an annual basis. The Committee meets eight times a year, and reports from an Independent Adviser (which include advice on the Fund's approach to Responsible Investment) are received regularly.

As per the Climate Strategy, the Fund is committed to providing decision-makers with appropriate training, including specialised training on climate change.

The Local Pensions Board has an oversight role in ensuring the effective and efficient governance and administration of the Fund, including securing compliance with LGPS Regulations and any other legislation relating to the governance and administration of the Scheme.

TCFD Recommended Disclosure

**b) Describe management’s role in assessing and managing climate-related risks and opportunities.**

The Service Director for Finance, Infrastructure and Improvement, Group Manager Financial Services and Senior Accountant Pensions and Treasury Management have primary day-to-day responsibility for the way in which climate-related investment risks are currently managed. Where appropriate, the Fund’s pooling company, LGPS Central Ltd, assists in assessing and managing climate-related risks.

As detailed in the Climate Strategy, the Fund leverages partnerships and initiatives – including the Institutional Investors Group on Climate Change (IIGCC) – to identify and manage climate risk. The Service Director for Finance, Infrastructure and Improvement, the Group Manager Financial Services, and the Senior Accountant Pensions and Treasury Management are accountable to the Pensions Committee for delivery of the Climate Strategy.

As a primarily externally managed fund, the implementation of much of the management of climate-related risk is delegated onwards to portfolio managers. External portfolio managers are monitored on a regular basis by the Nottinghamshire Pension Fund Committee.

Since 2020 the Fund Officers have received an annual Climate Risk Report, which allows a view of climate risk throughout its total equities and fixed income portfolios, and identify further means for the Fun to manage its material climate risks.

## Strategy

TCFD Recommended Disclosure

**a) Describe the climate-related risks and opportunities the organisation has identified over the short, medium and long term.**

As a diversified asset owner, the range of climate-related risks and opportunities are multifarious and constantly evolving. A subset of risk factors is presented in Table 1.

**Table 1: Example Short, Medium & Long-Term Risks**

	Short & Medium Term	Long Term
Risks	Carbon prices Technological change	Resource scarcity Extreme weather events Sea level rise

	Policy tightening Consumer preferences	
<b>Asset class</b>	Listed equities Growth assets Energy-intensive industry Oil-dependent sovereign issuers Carbon-intensive corporate issuers	Infrastructure Property Agriculture Commodities Insurance

Short-term risks include stock price movements resulting from increased regulation to address climate change. Medium-term risks include policy and technology leading to changes in consumer behaviour and therefore purchasing decisions – the uptake in electric vehicles is an example of this. Long-term risks include physical damages to real assets and resource availability. Examples would include increased sea level rise for coastal infrastructure assets or supply chain impacts for companies as a result of severe weather events.

#### TCFD Recommended Disclosure

**b) Describe the impact of climate-related risks and opportunities on the organisation’s business, strategy and financial planning.**

Although the Fund is diversified across asset classes, regions, and sectors, it is recognised that climate risk is systemic and is unlikely to be eliminated through diversification alone.

The Fund’s Climate Change Strategy sets out the Fund’s approach to managing the impact of climate-related risks. The main management techniques within investment strategy are: measurement and observation; policy review; asset allocation; selection and due diligence; purposeful stewardship; and transparency and disclosure.

The Fund is exploring options to further embed climate-related risks and opportunities into its investment strategy, including reviewing potential investments in sustainable asset classes where this supports the Fund’s investment and funding objectives.

#### TCFD Recommended Disclosure

**c) Describe the resilience of the organisation’s strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.**

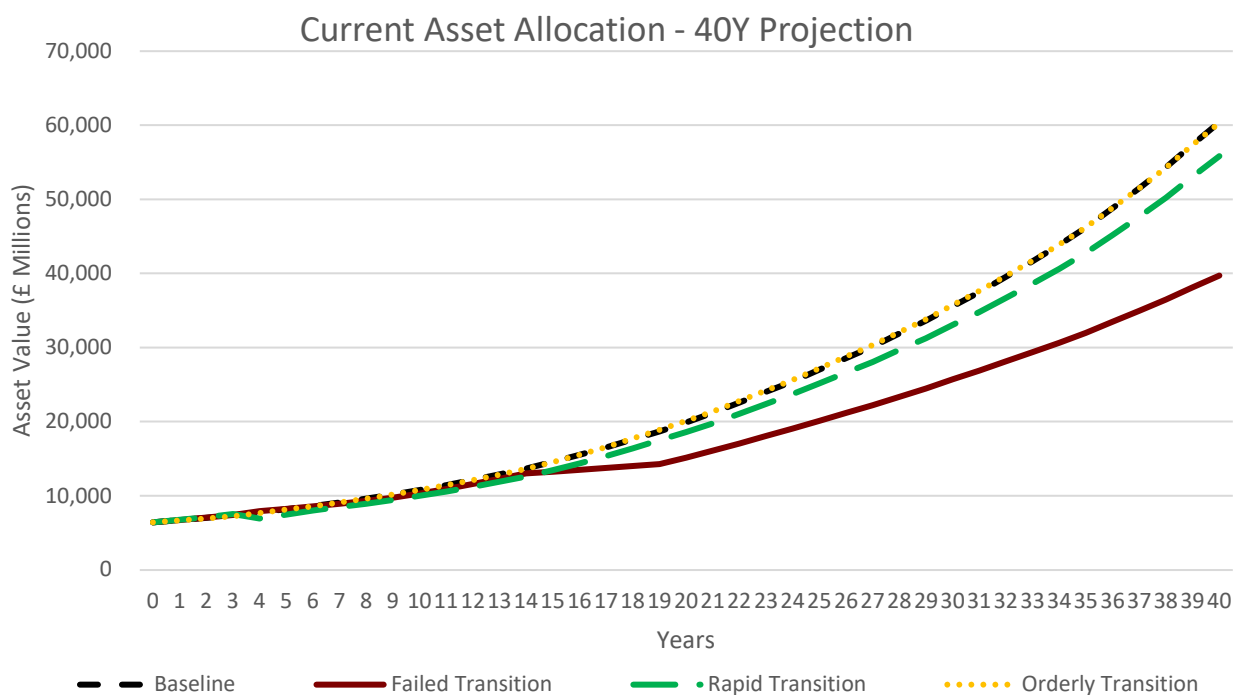
In 2022 the Fund engaged the expertise of an external contractor, Mercer LLC, to understand the extent to which the Fund’s risk and return characteristics could come to be affected by a set of plausible climate scenarios. This includes an estimation of the annual climate-related impact on returns (at the fund and asset-class level). All asset classes are included in this analysis. The climate scenarios considered are Rapid Transition, Orderly Transition and Failed Transition. This analysis is carried out every 2 to 3 years and the results of the 2022 analysis are provided below.

The scenarios are defined according to the change since pre-industrial times in mean global surface temperatures. A rapid transition scenario leads to a 1.5°C temperature increase by 2100, and is



characterised by sudden divestments on a global scale in 2025 in order to align society to the Paris Agreement goals. An early and smooth transition is represented by a 1.6°C temperature increase by 2100, with the markets pricing-in dynamics occur gradually over four years. A failed transition is represented by a temperature increase of 4.3°C by 2100, with severe physical and extreme weather events and the markets pricing in these risks.

**Graph 2: Cumulative Return Projections by Climate Change Scenario.<sup>2</sup>**



The analysis shows that over medium- to long-term, a successful transition is imperative for the Fund as its asset allocation fare better under Rapid and Orderly transition scenarios versus the Failed transition. Over the long term for nearly all investors a successful transition leads to enhanced projected returns when compared to scenarios associated with higher temperature outcomes due to lower physical damages.

Translating Climate Scenario Analysis into an investment strategy is a challenge because there is a wide range of plausible climate scenarios; the probability of any given scenario is hard to determine, and; the best performing sectors and asset classes in an orderly scenario tend to be the worst performers in a failed scenario and vice versa. Despite the challenges, the Fund believes in seeking out the best available climate-related research in order to make its portfolio as robust as possible.

<sup>2</sup> Extract above from Mercer Limited's (Mercer) report "Climate Change Scenario Analysis" dated October 2022 prepared for and issued to LGPS Central Limited for the sole purpose of undertaking climate change scenario analysis for Nottinghamshire Pension Fund. Other third parties may not rely on this information without Mercer's prior written permission. The findings and opinions expressed are the intellectual property of Mercer and are not intended to convey any guarantees as to the future performance of the investment strategy. Information contained herein has been obtained from a range of third party sources. Mercer makes no representations or warranties as to the accuracy of the information and is not responsible for the data supplied by any third party.

## Risk Management

### TCFD Recommended Disclosure

#### **a) Describe the organisation's process for identifying and assessing climate-related risks.**

The Fund seeks to identify and assesses climate-related risks at the total Fund level and the individual asset level. The Fund's 2020 and 2021 Climate Risk Reports include a combination of both top-down and bottom-up analyses<sup>3</sup>. The Fund recognises that the tools and techniques for assessing climate-related risks in investment portfolios are an imperfect but evolving discipline. The Fund aims to use the best available information to assess climate-related threats to investment performance.

As far as possible climate risks are assessed in units of investment return, in order to compare with other investment risk factors.

As a primarily externally-managed pension fund, the identification and assessment of climate-related risks is also the responsibility of individual fund managers appointed by the Fund. Existing fund managers are monitored on a regular basis.

Engagement activity is conducted with investee companies through selected stewardship partners including LGPS Central, EOS at Federated Hermes, and LAPFF (see below). Based on the findings of its Climate Risk Report, the Fund has devised a Climate Stewardship Plan in order to focus engagement resources on the investments most relevant to the Fund.

### TCFD Recommended Disclosure

#### **b) Describe the organisation's process for managing climate-related risks.**

The Fund manages climate risk in different ways according to the nature, duration, magnitude and time horizon of the risk itself. As set out in the Fund's Climate Strategy, the main management techniques are: measurement and observation; policy review; asset allocation; selection and due diligence; purposeful stewardship; and transparency and disclosure.

Engagement and shareholder voting are an important aspect of the Fund's approach to managing climate risk. The Fund expects all investee companies to manage material risks, including climate change, and the Fund believes that climate risk management can be meaningfully improved through focussed stewardship activities by investors.




The Fund supports the engagement objectives of the Climate Action 100+ initiative, whereby companies adopt the appropriate governance structures to effectively manage climate risk, decarbonise in line with the Paris Agreement, and disclose effectively using the TCFD recommendations. In September 2020, CA100+ introduced a Benchmark Framework which identifies ten key indicators of success for business alignment with a net zero emissions future and goals of the Paris Agreement.

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<sup>3</sup> Climate Scenario Analysis only included in the 2020 Climate Risk Report.

Either through its own membership or through LGPS Central’s membership, the Fund has several engagement partners that engage investee companies on climate risk which are described in the following table.

**Table 3: The Fund’s Stewardship Partners**

Organisation	Remit
	<p>The Fund is a 1/8<sup>th</sup> owner of LGPS Central.</p> <p>Climate change is one of LGPS Central’s stewardship themes, with quarterly progress reporting available on the website.</p> <p>The Responsible Investment Team at LGPS Central engages companies on the Fund’s behalf, including via the Climate Action 100+ initiative.</p>
	<p>EOS at Federated Hermes is engaged by LGPS Central to expand the scope of the engagement programme, especially to reach non-UK companies.</p>
	<p>NPF is a long-standing member of the Local Authority Pension Fund Forum (LAPFF). LAPFF conducts engagements with companies on behalf of local authority pension funds.</p>

The instruction of shareholder voting opportunities is an important part of climate stewardship. The Fund’s votes are executed by its asset pool (LGPS Central) according to a set of Voting Principles, to which the Fund contributes during the annual review process. LGPS Central’s Voting Principles incorporate climate change, for example by voting against companies that do not meet certain thresholds in the Transition Pathway Initiative (TPI) scoring system. LGPS Central has co-filed shareholder resolutions that relate to climate change. LGPS Central co-filed climate-related shareholder resolutions at the meetings of BP Plc, Barclays Plc, and Credit Suisse.

The Fund reports quarterly on its voting activities. These reports are publicly available on the Pension Fund website. In addition LGPS Central reports quarterly on its voting and engagement activities. These reports are publicly available via the LGPS Central website.

Based on its first Climate Risk Report, the Fund has developed a Climate Stewardship Plan which, alongside the widescale engagement activity undertaken by LGPS Central, investment managers, EOS at Federated Hermes, and LAPFF, includes targeted engagement with eight investee companies of particular significance to the Fund’s portfolio. Wherever feasible, the engagement objectives are designed to be SMART (Specific, Measurable, Actionable, Relevant and Time-bound) to enable the Fund to adequately assess a company’s progress. The Fund believes that all companies should align their business activities with the Paris Agreement on climate change.

**Table 4: Companies included in the Climate Stewardship Plan**

Company	Sector
BHP	Materials
BP	Energy
CRH	Materials
ExxonMobil	Energy

Glencore	Materials
Rio Tinto	Diversified Mining
Shell	Energy
TotalEnergies	Energy
Anglo American <sup>4</sup>	Materials

#### TCFD Recommended Disclosure

**c) Describe how processes for identifying, assessing and managing climate-related risks are integrated into the organisation's overall risk management.**

Both 'mainstream' risks and climate-related risks are discussed by the Committee. While specific macro-economic risks are not usually included in isolation, the Fund has deemed climate risk to be sufficiently significant and therefore included it on the Fund's Risk Register. Climate risk is further managed through the Fund's Climate Stewardship Plan.

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<sup>4</sup> Anglo-American is not currently in the plan, but is a recommended addition following the 2022 Climate Risk Report.

## Metrics and Targets

### TCFD Recommended Disclosure

**a) Disclose the metrics used by the organisation to assess climate-related risks and opportunities in line with its strategy and risk management process.**

The Fund receives annual reports from LGPS Central Ltd which set out the carbon risk metrics for its listed equities and fixed income portfolios. The poor availability of data in unlisted asset classes prevents a more complete analysis at this time. As the data quality for fixed income remains low at only 45%, this data has also been excluded from this report. Data quality for listed equities remains imperfect, the application of a wide range of metrics (as listed below) still allows for a meaningful analysis.

The carbon risk metrics analysis includes:

- portfolio carbon footprints<sup>5</sup>
- financed emissions of the portfolio<sup>6</sup>
- weight of portfolios invested in companies with fossil fuel reserves
- weight of portfolios invested in companies with thermal coal reserves
- weight of portfolios invested in companies whose products and services include clean technology
- weight of the portfolio invested in companies that have set net zero targets
- metrics assessing the management of climate risk by portfolio companies

The full results of these analyses fall beyond the scope of this TCFD report, but are outlined in detail in the published Climate Risk Report. These carbon risk metrics aid the Fund in assessing the potential climate-related risks to which the Fund is exposed, and identifying areas for further risk management, including company engagement and fund manager monitoring. The Fund additionally monitors stewardship data (see above).

### TCFD Recommended Disclosure

**b) Disclose Scope 1, Scope 2, and if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks. TCFD Guidance:** *Asset owners should provide the weighted average carbon intensity, where data are available or can be reasonably estimated, for each fund or investment strategy.*

In line with the TCFD guidance and following receipt of a report from LGPS Central Limited we provide below the carbon footprints of the Fund's total equities.<sup>7</sup>

<sup>5</sup> Following TCFD guidance we use weighted average portfolio carbon footprints.

<sup>6</sup> Calculated by multiplying the attribution factor by a company's emissions, giving a figure of the absolute tons of CO<sub>2</sub> for which an investor is responsible.

<sup>7</sup> Analysis undertaken on the listed equities portfolios with holdings data as of 31<sup>st</sup> March 2022. The information in Table 5 was provided to the Fund in a report authored by LGPS Central Limited. In LGPS Central

**Table 5: Carbon risk metrics for the equity portfolio as of 31<sup>st</sup> March 2022<sup>8</sup>**

		Financed Emissions (tCo2e)	Carbon Footprint (tCO2e/\$M revenue)			Weight in Fossil Fuel Reserves %			Weight in Thermal Coal Reserves %			Weight in Clean Technology %		
Portfolio Name	Benchmark	PF	PF	BM	% Diff	PF	BM	% Diff	PF	BM	% Diff	PF	BM	% Diff
Quoted Equities Asset Class	Quoted Equity Blended Benchmark	267,640	123.3	149.3	-17.40%	9.34%	9.96%	-0.62%	3.28%	3.47%	-0.19%	33.36%	34.35%	-0.99%

The Fund's total Equities portfolio is 17.4% more carbon efficient than the blended benchmark. This means that, on average, for every \$m of economic output companies produce, the Fund's investee companies emit 17.4% fewer GHG emissions than the companies in the blended benchmark. The Total Equities portfolio has a slightly lower exposure to both fossil fuel reserves and thermal coal reserves than its blended benchmark, but also has less weight in clean technology.

Whilst the Fund's carbon risk metrics results show the Fund already 'outperforms' its benchmarks, the Fund is proactively exploring ways to further embed climate risk management in its investment decision making. The Fund expects to update its carbon risk metrics data on an annual basis.

#### TCFD Recommended Disclosure

#### **c) Describe the targets used by the organisation to manage climate-related risks and opportunities and performance against targets.**

The ability for diversified investors (such as pension funds) to set meaningful climate targets is inhibited by the paucity of credible methodologies and data currently available. Like most investors, the Fund is supportive of the development of target-setting methodologies, and the increasing completeness of carbon datasets. The Fund 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.

Limited's report, the Total Equities portfolio comprises the Total Active Equities and the Total Passive Equities portfolios weighted according to their size in GBP. The Total Active Equities portfolio contains two underlying portfolios managed for the Fund by LGPS Central. The Total Passive Equities portfolio contains six underlying portfolios managed for the Fund by LGIM and one underlying portfolio managed by LGPS Central.

<sup>8</sup> Certain information ©2021 MSCI ESG Research LLC. Reproduced by permission.

## Appendix 1

TCFD Recommendations for Asset Owners (source: TCFD)

### Governance

Recommended Disclosure (a) Describe the board's oversight of climate-related risks and opportunities.

Recommended Disclosure (b) Describe management's role in assessing and managing climate-related risks and opportunities.

### Strategy

Recommended Disclosure (a) Describe the climate-related risks and opportunities the organisation has identified over the short, medium, and long term.

Recommended Disclosure (b) Describe the impact of climate-related risks and opportunities on the organisation's businesses, strategy, and financial planning.

Recommended Disclosure (c) Describe the resilience of the organisation's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.

### Risk Management

Recommended Disclosure (a) Describe the organisation's processes for identifying and assessing climate-related risks.

Recommended Disclosure (b) Describe the organisation's processes for managing climate-related risks.

Recommended Disclosure (c) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organisation's overall risk management.

### Metrics and Targets

Recommended Disclosure (a) Disclose the metrics used by the organisation to assess climate-related risks and opportunities in line with its strategy and risk management process.

Recommended Disclosure (b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks.

Recommended Disclosure (c) Describe the targets used by the organisation to manage climate-related risks and opportunities and performance against targets.

## Appendix 2: Glossary

**Clean Technology/ Weight in Clean Technology:** the weight of a portfolio invested in companies whose products and services include clean technology. Products and services eligible for inclusion include Alternative Energy, Energy Efficiency, Green Building, Pollution Prevention, Sustainable Water.

**Coal Reserves/ Portfolio exposure to thermal coal reserves:** the weight of a portfolio invested in companies that own thermal coal reserves.

**Engagement:** dialogue with a company concerning particular aspects of its strategy, governance, policies, practices, and so on. Engagement includes escalation activity where concerns are not addressed within a reasonable time frame.

**Fossil Fuel Reserves/ Portfolio exposure to fossil fuel reserves:** the weight of a portfolio invested in companies that own fossil fuel reserves.

**Physical risk/ climate physical risk:** the financial risks and opportunities associated with the anticipated increase in frequency and severity of extreme weather events and other phenomena, including storms, flooding, sea level rise and changing seasonal extremities.

**Portfolio Carbon Footprint/ Carbon Footprint:** A proxy for a portfolio's exposure to potential climate-related risks (especially the cost of carbon), often compared to a performance benchmark. It is calculated by working out the carbon intensity (Scope 1+2 Emissions / \$M sales) for each portfolio company and calculating the weighted average by portfolio weight.

**Scope 1 Greenhouse Gas Emissions:** Direct emissions from owner or sources controlled by the owner, including: on-campus combustion of fossil fuels; and mobile combustion of fossil fuels by institution-controlled vehicles.

**Scope 2 Greenhouse Gas Emissions:** Indirect emissions from the generation of purchased energy

**Scope 3 Greenhouse Gas Emissions:** Indirect emissions that are not controlled by the institution but occur as a result of that institutions activities. Examples include commuting, waste disposal and embodied emissions from extraction.

**Stewardship:** the promotion of the long-term success of companies in such a way that the ultimate providers of capital also prosper, using techniques including engagement and voting.

**Transition risk/ climate transition risk:** the financial risks and opportunities associated with the anticipated transition to a lower carbon economy. This can include technological progress, shifts in subsidies and taxes, and changes to consumer preferences or market sentiment.

**Voting:** the act of casting the votes bestowed upon an investor, usually in virtue of the investor's ownership of ordinary shares in publicly listed companies.



### Appendix 3: Important Information

Extract above from Mercer Limited's (Mercer) report "Climate Change Scenario Analysis" dated August 2022 prepared for and issued to LGPS Central Limited for the sole purpose of undertaking climate change scenario analysis for Nottinghamshire Pension Fund. Other third parties may not rely on this information without Mercer's prior written permission. The findings and opinions expressed are the intellectual property of Mercer and are not intended to convey any guarantees as to the future performance of the investment strategy. Information contained herein has been obtained from a range of third party sources. Mercer makes no representations or warranties as to the accuracy of the information and is not responsible for the data supplied by any third party.

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