



Staffordshire Pension Fund Climate-related Disclosures

Report prepared in alignment with the recommendations of the Taskforce on Climate-related Financial Disclosures (TCFD)

April 2021



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 and Appendix 1) are designed 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 the Environment Agency Pension Fund.

Figure 1: TCFD Disclosure Pillars



Staffordshire Pension Fund ('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 policy makers 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

The Fund has received an in-depth review of its climate risks under different climate change scenarios and across all asset classes from its pooling company, LGPS Central Ltd. The Fund is currently using the findings of this report to develop a more detailed Climate Strategy and a Climate Stewardship Plan, taking into account its own characteristics and its policy of engaging with companies to encourage the development of climate-resilient business strategies.

Ahead of the publication of the Climate Strategy, this Climate-related Disclosures report describes the way in which climate-related risks are managed currently. In the interests of being transparent with the Fund's beneficiaries and broader stakeholder base, this report also discloses the results of recent Carbon Risk Metrics Analysis and Climate Scenario Analysis undertaken on the Fund's assets. We expect to update the carbon risk metrics on an annual basis and publish them in an updated TCFD report, whereas we only expect to update the Climate Scenario Analysis on a bi-annual basis.

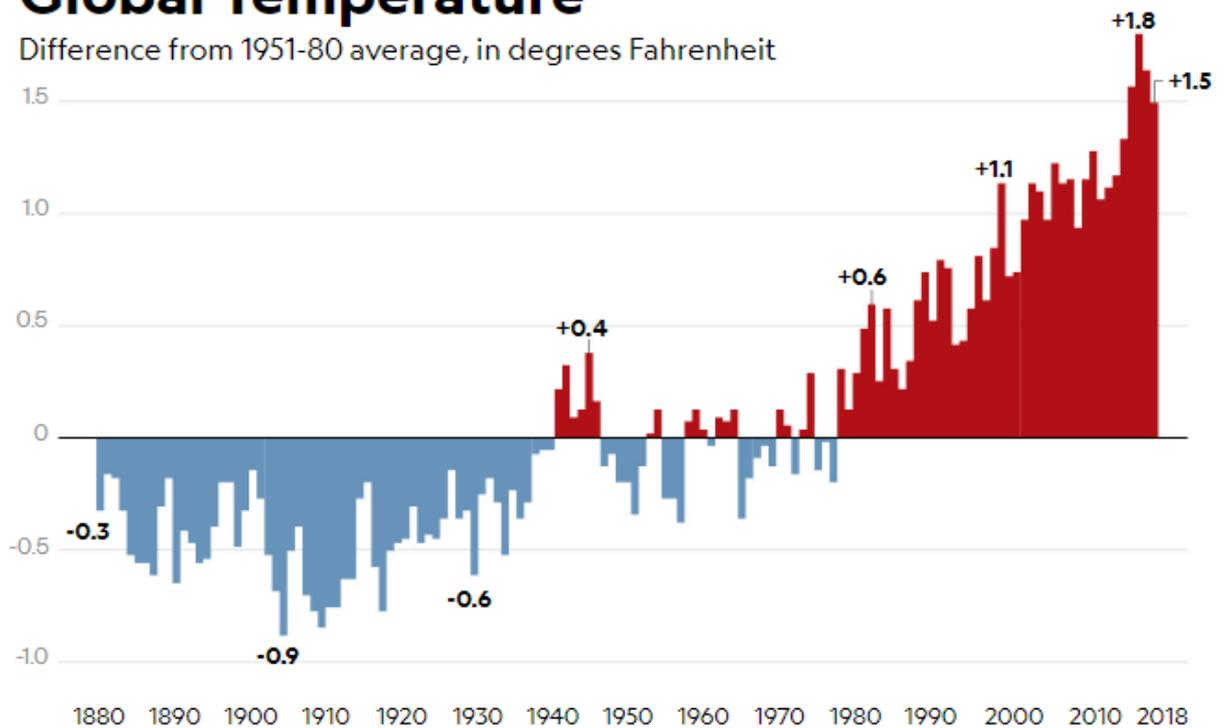
Climate-related risks

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 five 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 climactic 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 1951-80 average.

Global Temperature

Difference from 1951-80 average, in degrees Fahrenheit



Source: NASA

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.

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

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.

Source: United Nations Framework Convention on Climate Change.

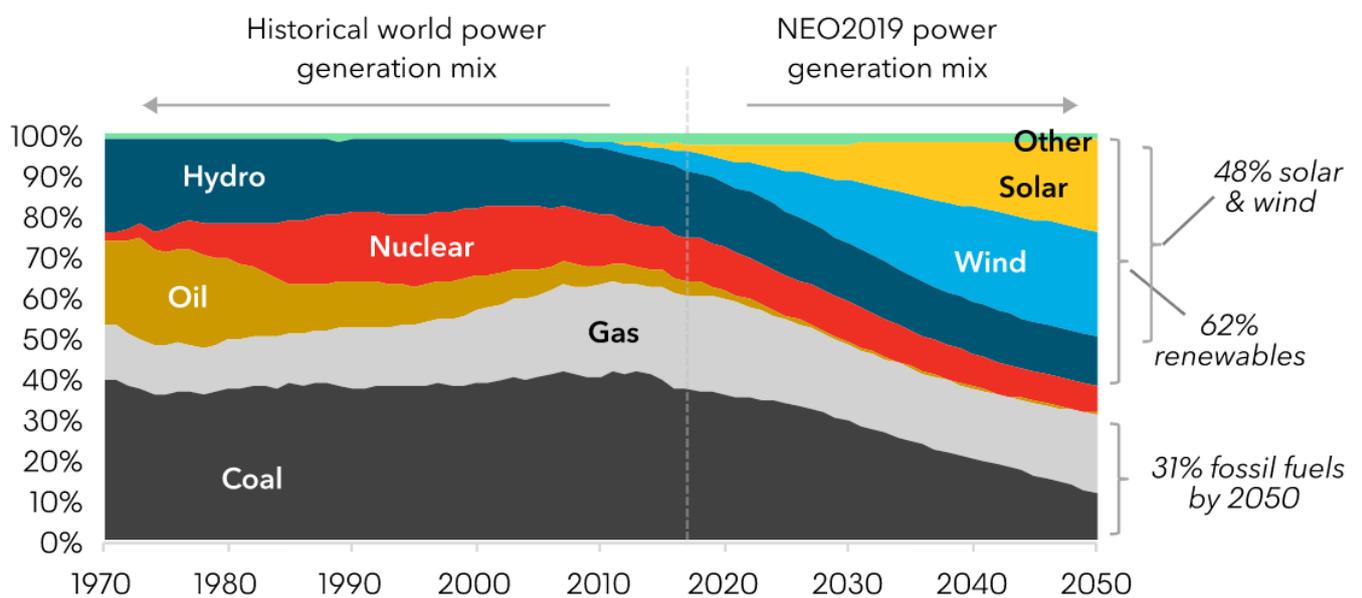
Given its contribution to global green-house gases (GHG) emissions, the energy sector is expected to play a significant role in the long-term decarbonisation of the economy. Figure 4 suggests that in one climate scenario, the proportion of coal, oil, and gas in the global power generation mix will shrink to 31% of 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: Bloomberg NEF.



Taskforce on Climate-related Financial Disclosures (TCFD)

The following sections describe how the Staffordshire Pension Fund demonstrates its alignment with the four recommended disclosures (also detailed in Appendix 1) based on the Taskforce on Climate-related Financial Disclosures (TCFD) framework.

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 Policy Statement*. Overall responsibility for managing the Fund lies with the full Council of Staffordshire County Council which has delegated the management and administration of the Fund to the Staffordshire Pensions Committee and Pensions Panel.

The Pensions Committee is responsible for approving the *Investment Strategy Statement (ISS)*. The ISS includes a formal investment belief on climate change, recognising it as a factor that could materially impact financial markets. The Pensions Committee and the Pensions Panel each meet quarterly. The Pensions Panel receives quarterly engagement and voting reports from its stewardship providers, LGPS Central Ltd, LAPFF and external investment managers as regular items on the meeting agenda.

In December 2020, the Fund received a Climate Risk Report which was presented to the Pensions Committee on 26 March 2021. This will support the formation of the Fund's Climate Strategy.

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 Assistant Director for Treasury and Pensions has primary day-to-day responsibility for the way in which climate-related investment risks are currently managed. As a primarily externally managed fund, the implementation of much of the management of climate-related risk is delegated onwards to investment portfolio

managers. External portfolio managers are monitored on a regular basis by the Pensions Panel.

In late 2020, Fund Officers received a Climate Risk Report which will enable the consideration of climate change within strategy setting, including asset allocation and asset selection. Receipt of a Climate Risk Report is expected to occur annually.

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 Policy tightening Consumer preferences	Resource scarcity Extreme weather events Sea level rise
Asset class	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 rises for coastal infrastructure assets or supply chain impacts for companies as a result of severe weather events.

The Fund has received a Climate Risk Report and will use its findings to develop a Climate Strategy.

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 is exploring options to further embed climate-related risks and opportunities into its investment strategy, including further reviewing potential investments in sustainable asset classes where this supports the Fund’s investment and funding objectives. The Fund made its first investment into sustainable global equities in April 2021.

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.

The Fund has engaged the expertise of an external contractor, Mercer LLC¹, to understand the extent to which the Fund’s risk and return characteristics may be affected by a set of plausible climate scenarios. This includes an estimation of the annual climate-related impact on returns (at fund and asset-class level). All asset classes are included in this analysis. The climate scenarios considered are 2°C, 3°C and 4°C.

Table 2: Annualised climate change impact on portfolio returns – 2030 and 2050².

Scenario	Timeline	Estimated climate impact on returns
2°C	2030	-0.01%
	2050	-0.10%
3°C	2030	-0.02%
	2050	-0.06%
4°C	2030	-0.10%
	2050	-0.12%

¹ Via LGPS Central Limited

² Extract above from Mercer Limited’s (Mercer) report “Climate Change Scenario Analysis” dated 30 October 2020 prepared for and issued to LGPS Central Limited for the sole purpose of undertaking climate change scenario analysis for Staffordshire 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.

According to the analysis summarised in Table 2, a 2°C scenario would not have a significant impact on the Fund’s returns considering a timeline to 2030. On a longer timeline to 2050, the model suggests that in a 2°C scenario the current asset allocation is sensitive to transition risks. The driver of this result is primarily the Fund’s high allocation to global equities, an asset class less well-aligned with the opportunity side of the low-carbon transition. A 4°C scenario is the worst of the three considered, detracting 0.12% annually on a timeline to 2050. The Fund is using the analysis to shape a Climate Strategy which will be agreed in due course.

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 a 2°C scenario tend to be the worst performers in a 4°C 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.

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 at the individual asset level. The Fund has received a Climate Risk Report which includes both top-down and bottom-up analyses. 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 to enable them to be compared to other investment risk factors (see *Portfolio Carbon Footprint/ Carbon Footprint* explanation in the Glossary for further detail).

As Fund investments are primarily externally managed, 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), in addition to that carried out by external investment managers. The Fund is, based on the Climate Risk Report recently received, devising 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 prioritisation of risks is determined based on the level of perceived threat to the Fund which, for climate-related risk, will likely depend on analyses including Climate Scenario Analysis and Carbon Risk Metrics. The Fund's approach to climate risk management will be further developed in its forthcoming Climate Strategy.

Although the Fund's Climate Strategy will involve more than just engagement and shareholder voting, stewardship activities will remain 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+. This initiative encourages the world's largest corporate greenhouse gas emitters to adopt the appropriate governance structures to effectively manage climate risk; decarbonise in line with the Paris Agreement, and disclose effectively using the TCFD recommendations.

Either through its own membership or through LGPS Central Ltd's membership, the Fund has several engagement partners that engage investee companies on climate risk.

Table 3: The Fund's Stewardship Partners

Organisation	Remit
	<p>The Fund is a 1/8th 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>In 2019, EOS conducted engagements on 238 climate change issues across its company universe.</p>



SPF 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.

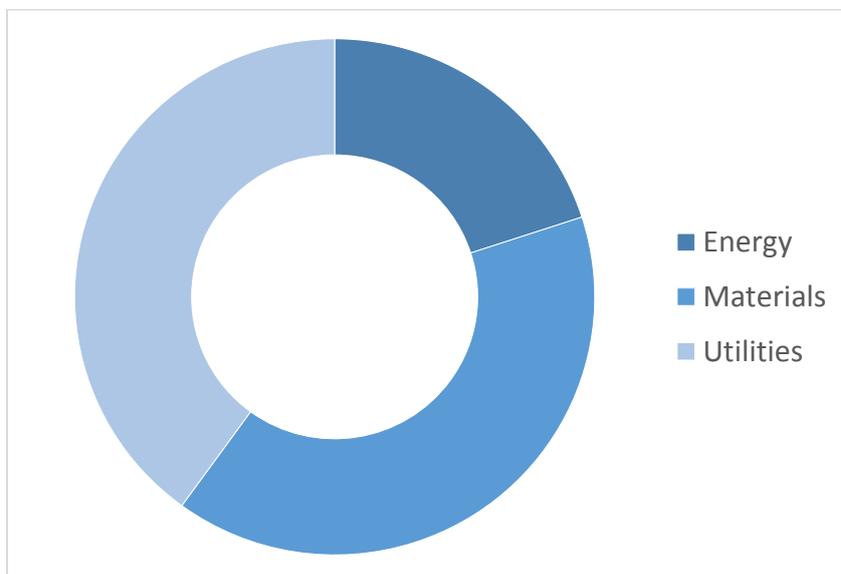
In 2019 LAPFF conducted over 150 engagements on climate change.

The instruction of shareholder voting opportunities is an important part of climate stewardship. The Fund delegates responsibility for voting to LGPS Central or the Fund's directly appointed investment managers. For Fund assets managed by the former, votes are cast in accordance with LGPS Central's *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. For Fund assets managed by appointed external managers, votes will be cast in line with their own voting and responsible investment policies and in-line with industry best practice as set out in accepted governance codes.

The results of engagement and voting activities by all the Fund's investment managers are reported to the Fund and reviewed quarterly by the Pensions Panel through a specific Responsible Investment Report. LGPS Central's activities are reported in *Quarterly Stewardship Updates*, which are available on the LGPS Central website.

Based on its Climate Risk Report, the Fund will develop a Climate Stewardship Plan which, alongside the widescale engagement activity undertaken by LGPS Central, EOS at Federated Hermes, and LAPFF, will include targeted engagement at investee companies of particular significance to the Fund's portfolio.

Figure 5: Sectors included in proposed Climate Stewardship Plan



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 Pensions Committee and Pensions Panel. The Fund recognises “failure to follow responsible investment principles” as a key risk in the Funding Strategy Statement. The Fund has included Climate risk on the Fund’s Risk Register.

Climate risk will be further managed through the Fund’s Climate Strategy and Climate Stewardship Plan.

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 has recently received a report from LGPS Central Limited on carbon risk metrics for its listed equities portfolios, which represent 61.2% of the Fund’s total assets. The poor availability of data in asset classes other than listed equities prevents a more complete analysis at this time.

The carbon risk metrics analysis include:

- portfolio carbon footprints³,
- 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
- metrics assessing the management of climate risk by portfolio companies

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).

³ Following TCFD guidance we use weighted average portfolio carbon footprints.

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 Ltd the following table provides the carbon footprints of our equity portfolio⁴:

Table 4: Carbon risk metrics for the equity portfolio as at March 2021⁵

Portfolio Name	Benchmark	Carbon Footprint (tCO ₂ e/ \$m revenue)			Weight in Fossil Fuel Reserves (%)			Weight in Thermal Coal Reserves (%)			Weight in Clean Technology (%)		
		PF	BM	% Diff	PF	BM	% Diff	PF	BM	% Diff	PF	BM	% Diff
Total Equities	Blended Benchmark Total Equities ⁶	176.5	163.5	7.90%	6.39%	7.94%	-1.54%	2.61%	2.71%	-0.10%	33.80%	34.70%	-0.94%
Global Equities	FTSE All World	191.1	172.8	10.60%	5.07%	6.45%	-1.38%	2.32%	2.57%	-0.25%	34.7%	36.6%	-1.89%
UK Equities	FTSE All Share	111.8	122.2	-8.49%	12.18%	14.44%	-2.26%	3.88%	3.31%	0.57%	29.1%	26.4%	2.73%

As at 31 March 2020, the Fund's Total Equity portfolio is marginally more carbon intensive than the Total Equity Blended Benchmark. The report received from LGPS Central Ltd shows that this result is driven entirely by one portfolio with a significantly high carbon footprint. This portfolio aside, all the other active equity strategies outperform their benchmarks in terms of carbon footprint. The exposure of the Total Equity portfolio to fossil fuel producers is 1.54% lower than the benchmark. The

⁴ Analysis undertaken on the listed equities portfolios with holdings data as of 31 March 2020. The information in Table 4 was provided to the Fund in a report authored by LGPS Central Limited. In LGPS Central Limited's report, the Total Equities portfolio comprises the Total UK Equities and Total Global Equities portfolios weighted according to their size in GBP. The Total Global Equities portfolio contains four underlying portfolios managed for the Fund by LGPS Central, JP Morgan Asset Management, Longview Partners and LGIM. The Total UK Equities portfolio contains two underlying portfolios managed for the Fund by Standard Life Investments and LGIM.

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⁶ The benchmark for the Total Equities portfolio is composed of the underlying regional benchmarks, weighted in proportion to the current GBP amount invested in each underlying portfolio.

highest fossil fuel exposure is found in the UK Equity portfolio, though it is still 2.26% less exposed than the UK benchmark.

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

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 and practices. 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 30 October 2020 prepared for and issued to LGPS Central Limited for the sole purpose of undertaking climate change scenario analysis for Staffordshire 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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