

Oxfordshire County Council Pension Fund Taskforce on Climate-related Financial Disclosures Report 2020/21

Introduction

This is the Pension Fund's first report under the Taskforce on Climate-related Financial Disclosures (TCFD) framework and fulfils the action from the Fund's Climate Change Policy Implementation Plan to produce a first report in 2020/21.

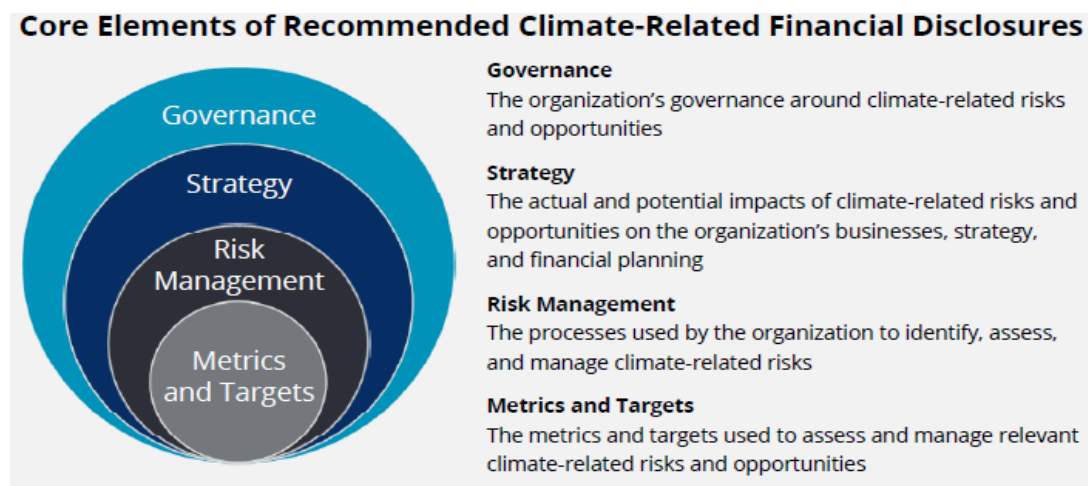
As well as reporting against the TCFD recommendations the report is intended to review the progress made against the Fund's Climate Change Policy and Implementation Plan which were agreed in June 2020.

Background

Mark Carney, when he was Chair of the Financial Stability Board, was instrumental in the launch of TCFD when it was created in 2015. In 2017 the TCFD released its recommendations for improved transparency by companies, asset managers, asset owners, banks, and insurance companies on how climate-related risks and opportunities are being managed. Supporters of the TCFD total over 2,300 organisations across 88 countries. The Task Force consists of 32 members from across the G20, representing both users and preparers of financial disclosures, and is currently chaired by Michael R. Bloomberg founder of Bloomberg L.P..

The TCFD was established to develop recommendations for more effective climate-related disclosures that could promote more informed investment, credit, and insurance underwriting decisions and, in turn, enable stakeholders to understand better the concentrations of carbon-related assets in the financial sector and the financial system's exposures to climate-related risks. The four core elements of the recommended disclosures are detailed in Figure 1 below.

Figure 1



(Recommendations of the Task Force on Climate-related Financial Disclosures, 2017)

The TCFD recommendations on climate-related financial disclosures are intended to be widely adoptable and applicable to organisations across sectors and jurisdictions.

In November 2020, the UK Government announced its ‘TCFD road-map’ with a commitment to roll out across the finance sector by 2025. This is underway with regulators having made, or being in the process of making, TCFD based reporting mandatory and have published guidance on the implementation of the recommendations relevant to the sector in question. Figure 2 below shows the announced TCFD implementation plans in the UK.

Figure 2

Financial Conduct Authority	Implementation Date
UK Listed Companies	2021
Asset Managers and Workplace Personal Pensions	2022
Large UK-Registered Private Companies	2023
Department for Work & Pensions (DWP)	
Occupational Pension Schemes	2021

At present there is no requirement for LGPS funds to report under TCFD or consultation on the implementation in the LGPS. However, the Ministry of Housing, Communities & Local Government has stated that it intends for TCFD reporting in the LGPS to become mandatory in 2023. The Pension Fund determined in its Climate Change Policy Implementation Plan that a TCFD report would be included in its 2020/21 Annual Report.

Below are details for the Fund under each of the TCFD’s recommended disclosures.

Governance

TCFD Recommended Disclosure – a. Describe the board’s oversight of climate-related risks and opportunities.

The Fund’s governance arrangements are set out in its Governance Policy Statement. All functions relating to the management of the Pension Fund have been delegated by Oxfordshire County Council to the Pension Fund Committee. As such, the Committee are responsible for the Fund’s long-term strategy.

The Pension Fund Committee are responsible for setting the Fund's Investment Strategy Statement which includes the approach to responsible investment. The Fund has an Independent Financial Adviser who provides investment advice to the Fund including on investment strategy.

Climate change is considered in the budget setting process in terms of training requirements, any climate related consultancy deemed beneficial, and climate related reporting requirements.

In June 2020 the Pension Fund Committee agreed a Climate Change Policy and Climate Change Policy Implementation Plan. Progress against the Policy and Implementation Plan is to be reported to Committee quarterly with a more detailed annual review. Climate Change is included as one of the four key items on the Pension Fund's Annual Business Plan.

Following agreement of the Policy a Climate Change Working Group was formed which currently comprises of Committee members, a Local Pension Board member, Fund officers, the Fund's Independent Financial Adviser, a scheme member representative, and member of the Fossil Free Oxfordshire campaign group. The Working Group aims to meet quarterly and report back to the Committee at its quarterly meetings.

As required by LGPS regulations The Pension Fund operates a Local Pension Board which meets on a quarterly basis. The Board's role is to ensure the efficient and effective governance and administration of the Fund, including compliance with relevant regulations and legislation that apply to the Fund.

The Fund, along with nine other LGPS funds, is a part of the Brunel Pension Partnership which develops investment portfolios that are made available to client funds to invest in. Under pooling requirements set by the government the Pension Fund is required to make all investments through Brunel while maintaining responsibility for asset allocation decisions. The key bodies where the Fund interacts with Brunel are the Client Group and Brunel Oversight Board where fund representatives and Brunel meet. Climate related risks and opportunities form a key part of the reporting received from Brunel on their portfolios and activities and Brunel has a dedicated responsible investment team.

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

Day-to-day management of the Fund's Climate Change Policy implementation is delegated to management through the Director of Finance and is required to report progress to the Pension Fund Committee quarterly. Management receive an annual carbon metrics report which informs its reporting to Committee.

Management meets regularly with its Fund managers and has established a cycle for fund manager attendance at Committee meetings. Management engage with Brunel and other Fund Managers on climate issues and receive and consider responsible investment, including climate related, reporting that is included in Fund Managers' quarterly reports. The Fund has an officer representative on the Brunel Responsible Investment Sub-Group and Cross-Pool Responsible Investment Group where

developments around climate issues are regularly discussed (e.g. metrics developments, engagement activities and results).

Management are responsible for developing and operating a training plan for Committee members and Officers to ensure appropriate skills and knowledge.

Strategy

TCFD Recommended Disclosure – a. Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.

The Pension Fund has liabilities that stretch decades into the future and so primarily takes a long-term view to investment decisions. Given the diversity and global nature of the Fund's investments almost all climate related risks and opportunities are relevant to the Fund. While some of the climate-related risks/opportunities apply to the Fund across its investments as a whole, others are specific to certain sectors or geographies and Fund Managers are required to consider the materiality of these.

The most significant long-term risk is the systemic risk across financial markets, including social and other factors, associated with climate change that could arise if actions are not taken to adhere to the Paris Agreement.

In terms of more specific and short/medium-term risks - stranded assets, physical risks (e.g. property), sovereign debt where countries are dependent on fossil fuel linked revenue, policy risk (e.g. carbon pricing), technology risk (obsolescence), changes in consumer behavior are all factors that can affect the Fund's investments. There is also a risk that the Fund develops its investment strategy around achievement of the Paris goals but the goals are not achieved meaning the Fund's investment strategy is misaligned with the reality of the actual climate path.

The Fund has identified climate related opportunities including the ability to reduce portfolio risk by identifying and taking action on assets at risk under Paris aligned scenarios and the potential to identify outperformance opportunities by investing in those companies whose business models/strategies are best aligned with Paris aligned scenarios. Additionally, investment opportunities exist in assets linked to the implementation of the Paris Agreement (e.g. clean energy infrastructure).

TCFD Recommended Disclosure – b. Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.

Climate Change is considered as part of the development of the Fund's Investment Strategy Statement which includes the Fund's strategic asset allocation. After each funding valuation undertaken by the actuary the Fund completes a fundamental review of its asset allocation which will consider climate related risk and opportunities. The Fund aims to incorporate climate change scenario analysis into the next fundamental review due in 2023. The fund uses diversification to manage investment risks but given the systemic nature of climate risks this limits its effectiveness under more extreme scenarios.

The Fund's Climate Change Policy states that where there are two investment options that broadly aim to deliver the same investment objective the Pension Fund will prioritise the option that delivers the best fit to its climate change commitment. For example, consistent with this principle the Fund moved ~5% of the Fund from regular market-cap index trackers to a low-carbon alternative in 2020.

Climate related risks and opportunities are considered when setting the Pension Fund's Business Plan and also informs discussions with Brunel around portfolio offerings and construction.

The Pension Fund has made a commitment to achieve net-zero emissions on its own operations by 2030.

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

The Fund is committed through its Climate Change Policy to keeping abreast of the latest scientific developments in respect of Climate Change to ensure that the Policy remains appropriate in its aim to align with the Paris Agreement.

Under a scenario where additional cuts in emissions are required to meet the Paris Agreement, and there was a global commitment to achieve this, the Fund would anticipate amending its target for emissions reductions across its investments accordingly and making any necessary changes to its asset allocation targets and/or investment portfolios.

Under a scenario where the Paris Agreement goals were to be overshot the Fund would consider making changes to its investments that align with this reality, this would likely include mitigating physical risks that would be associated with such a scenario. The Fund would also review whether there are changes the Fund could make, for example in engagement activity or policy advocacy, that could help correct the scenario back towards a Paris aligned one.

The Fund has not yet undertaken a scenario analysis exercise and acknowledges that this is a developing area. The Fund recognises the value of scenario analysis based on different climate scenarios and has committed to undertaking an exercise in its Implementation Plan, the results of which are to be incorporated into the Fund's fundamental asset allocation review due in 2023. Any scenario analysis would be intended to consider both the asset and liability implications for the Fund.

Risk Management

TCFD Recommended Disclosure – a. Describe the organization's processes for identifying and assessing climate-related risks.

Climate Change is included on the Fund's risk register which considers impact and likelihood in assigning a score. The risk register is reviewed on a quarterly basis and reported to Committee at each meeting. Officers consider regulatory, scientific and

political developments on climate change in particular those from recognised international bodies such as IIGCC, International Energy Agency, and UN Environmental Programme.

The Fund meets regularly with Brunel and discusses climate issues including any identified from the narrative reporting or climate metrics provided by Brunel.

Brunel in turn meet with their appointed fund managers who also have a responsibility to consider climate related risks and opportunities. For example, Brunel have a target for all companies held in their portfolios to achieve a Transition Pathway Initiative score of 4 or higher by 2022. The responsible Investment Sub-Group at Brunel provides an additional forum to discuss climate related risks with Brunel.

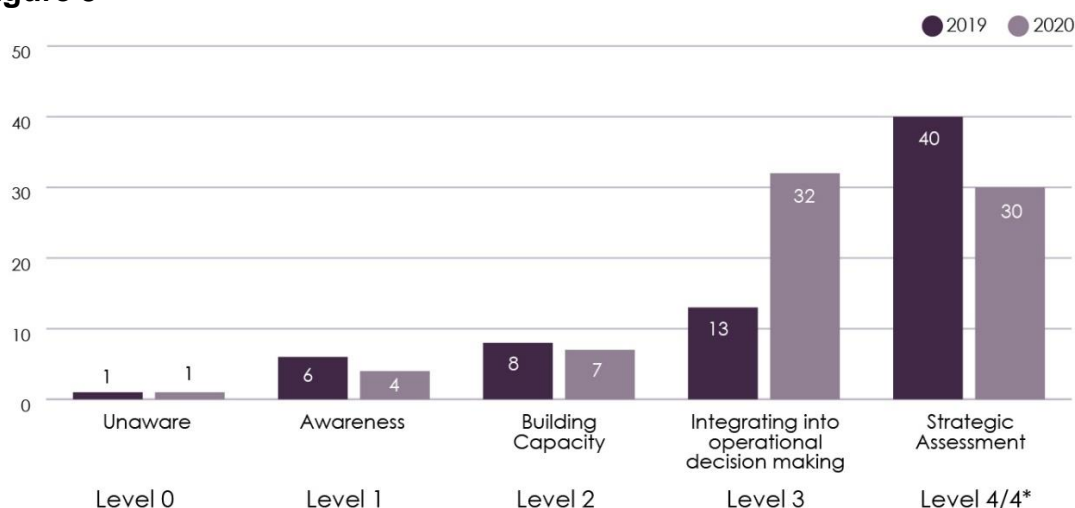
TCFD Recommended Disclosure – b. Describe the organization’s processes for managing climate-related risks.

The Fund is responsible for asset allocation decisions and sets its asset allocation targets to be consistent with the Fund’s Climate Change Policy. Where the Fund identifies investment needs that are not currently deliverable from Brunel portfolios there is a process for the creation of new portfolios.

Voting and engagement form an important part of the Fund’s management of climate-related risks. Engagement on behalf of the Pension Fund primarily takes place through Brunel, their appointed fund managers, and their engagement provider, in accordance with the approach set out in Brunel’s Climate Change Policy to which the Fund is able to input. Voting is undertaken on behalf of the Fund by Brunel utilising the expertise of their voting and engagement provider and appointed managers.

Brunel’s approach to voting escalation sees an initial vote against the reappointment of a company Chair escalate to other board members where they have not met their climate disclosure expectations. These expectations will increase over time with the aspiration of all their material holdings being on TPI Level 4 by 2022 and having made meaningful progress to alignment with a 2 degree or below pathway. In some sectors, e.g. oil and gas, they will aim to stimulate more rapid change. Figure 3 below shows the available TPI scores for 2019 and 2020 across Brunel’s listed equity portfolios.

Figure 3



The Fund, through Brunel and the Fund's membership of IIGCC, is involved in the Development of Paris Aligned Portfolios under the IIGCC's net zero framework. It is intended that this work will lead to all portfolios offered by Brunel being Paris aligned.

The Fund believes that in some areas, particularly around public policy engagement, it is beneficial for the Fund to act with like-minded investors. As such, the Fund is a member of investor groups whose aims are aligned with those of the Fund in respect of Climate Change (Climate Action 100+, Institutional Investors Group on Climate Change, Local Authority Pension Fund Forum).

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

Climate Change is included on the Fund's risk register which is a standing item at the quarterly Committee meetings. Climate change is a key topic included as part of the training plan to ensure appropriate skills and knowledge for those making decisions.

In appointing third parties, such as the Fund's Independent Financial Adviser, the Fund will set out requirements around responsible investment as appropriate.

Climate Change is also considered by the Fund's actuaries when undertaking their funding valuation.

Metrics and Targets

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

Metrics reported in this section are from the Fund's 2020 Carbon Metrics Report. The report includes equity and fixed income assets covering ~62% of the Fund's overall investment portfolio. The Fund is working to improve reporting across other

asset classes, including private markets, so that the level of coverage can be increased.

The Fund currently uses the following metrics to assess climate related risks and opportunities at both an aggregate and listed portfolio level:

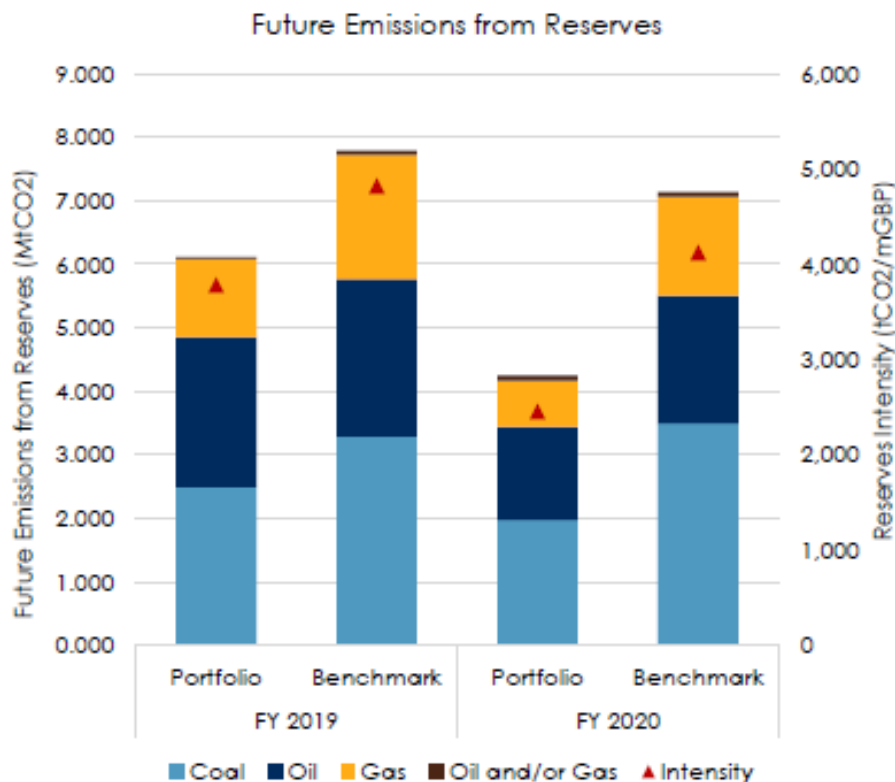
- Weighted Average Carbon Intensity
- Fossil Fuel Revenue Exposure
- Fossil Fuel Reserves Exposure
- Future Emissions from Reserves
- Disclosure Levels (Scope 1 Emissions)

Whilst the Fund does not have a specific fossil fuel reserves exposure reduction target, it does support seeking to reduce exposure over time.

Fossil fuel reserves exposure and future emissions from reserves are useful insights into potential downstream scope 3 emissions and can be used as an indicator of potential stranded asset risks.

Figure 4 below shows fossil fuel reserves exposure for the Fund as at 31 December 2019 and 31 December 2020.

Figure 4



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

The Pension Fund's Carbon Metrics report discloses scope 1, 2 and upstream first tier scope 3 emissions for all listed equity portfolios.

TCFD Recommended Disclosure – c. Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.

The Fund has an annual reduction target for GHG emissions across its investment portfolios of 7.6%. This target was met for the year ending 31 December 2020 as set out in the section below. Actions taken over the year included moving a proportion of the Fund's assets, representing 5% of the overall fund, held in passive equities to a low-carbon passive fund, and the transition of an active global equities portfolio to a global sustainable equities portfolio, representing approximately 9% of the overall Fund.

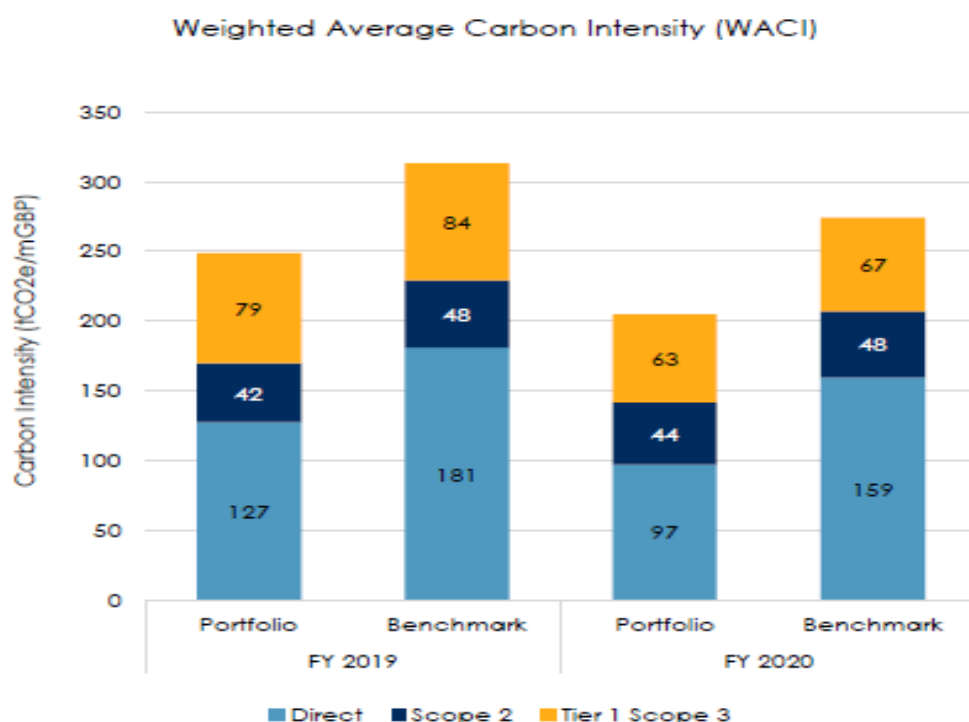
Climate Change Policy Implementation Plan Progress

Emissions Reduction Target

The Fund's Climate Change Policy Implementation Plan set a target to reduce Greenhouse Gas Emissions by 7.6% per annum based on the 2019 UN Environment Programme annual Emissions Gap Report. This was set to be consistent with the Fund's Policy commitment to be aligned to the 1.5°C temperature goal of the Paris Agreement with limited or no overshoot.

Figure 5 below shows the Fund's Weighted Average Carbon Intensity as at 31 December 2019 and 31 December 2020. These were 248 and 204 respectively representing **an annual reduction of 17.7%**.

Figure 5



The Fund recognises that there are a range of different metrics to assess emissions related to investment portfolios all of which have their own merits and drawbacks. At present the Fund is reporting on WACI (as recommended by TCFD) as this can be used across all listed portfolios, irrespective of allocations and therefore can be decision useful in assessing the relative carbon emission efficiency (per million pounds) of portfolios when attributing the impacts of strategic asset allocation decisions.

However, WACI has limitations in being used to assess progress against the Fund's emissions reduction target, principally because it is an efficiency measure and so while efficiency may improve this does not mean actual emissions are necessarily reducing.

An additional issue across all metrics is the use of scope 3 emissions where data quality and double counting, when using full scope 3 emissions, both make its use challenging. At present the Fund's WACI data includes Scope 1, Scope 2, and first tier Scope 3 emissions (upstream emissions).

Since the Fund set its Policy there have been a number of key reports released assessing progress towards delivery of the Paris Agreement and the pathways to net-zero.

The 2020 Emissions Gap report was released in December 2020. The report did not release an update to the required annual reduction in GHG emissions. The report notes an expected reduction in emissions of around 7% in 2020 as a result of the COVID-19 pandemic. However, this reduction is only expected to be temporary unless countries adopt a recovery plan that supports strong decarbonization. In the

absence of any evidence-based reason to update the Fund's existing emissions reduction target no change is proposed at the current time.

In 2021 the International Energy Agency issued a report Net Zero by 2050. The report explores pathways to achieve net-zero by 2050 focusing on the Roadmap they believe to be most feasible. The report notes that the gap between rhetoric and action on climate change needs to close and that what is required is a total transformation of the energy systems that underpin our economies. In terms of emissions reductions the roadmap used in the report requires emissions reductions of 4.6% annually between 2020 and 2030.

What is clear from both reports is that despite some progress on the commitments made by governments to cut emissions they are still insufficient if the Paris Agreement goals are to be delivered. The current Climate Action Tracker estimate for the global temperature increase by 2100 based on Paris Agreement pledges and targets is 2.4°C, still significantly above the 1.5°C target. Even including targets announced by countries but not submitted to the United Nations Framework Convention on Climate Change warming is still expected to be at least 2°C by 2100.

Both reports are also clear that there is still time for a technically feasible, cost-effective, and socially acceptable pathway to achieve net zero by 2050. However, the pathways are narrow and extremely challenging and require a step up in the commitments and actions of all stakeholders across the globe. Warming is already estimated at 1.2°C in 2020 and the window for taking action before the Paris Agreement becomes unachievable is closing with every year where insufficient action is taken leading to more challenging requirements for future years.

In November 2021 the UK will host COP26 where it is hoped that momentum on improving climate action can be maintained.

Other Implementation Plan Items

The Fund's Implementation Plan sets out several actions over the near-term that the Fund has determined will enable it to deliver on its Climate Change Policy. Progress against each of these is summarised below.

Work with Brunel to establish whether alternative passive, or similar, equity funds are available that better deliver on the Policy than current options available to the Fund.

Brunel have worked with their client funds to develop a range of index-tracking portfolios that meet the EU criteria to be classified as a Climate Transition Benchmark or Paris Aligned Benchmark. It is intended that a report considering the use of these portfolios by the Fund will be considered by the Pension Fund Committee at its September 2021 meeting.

Brunel are due to make available a Sustainable Global Equities portfolio shortly. The Pension Fund had initially planned to transition the c.£250m global equity mandate currently managed by UBS to the Brunel Global Core Equities portfolio. While all of Brunel's portfolios operate under their Climate

Policy, the Sustainable Global Equity portfolio focuses on identifying companies that are part of the solution to material sustainability challenges.

The Pension Fund Committee determined to move the full global equity mandate managed by UBS to the Brunel Sustainable Global Equities portfolio. The transition was completed in September 2020.

Consider the renewable infrastructure weighting when making future allocations to the Brunel Infrastructure portfolio.

Brunel is currently scoping its forthcoming (cycle 3) private market investment strategies. The strategies include the commitments to pro-actively seek climate and sustainable solutions, including but not limited to renewable infrastructure, as part of broader allocations.

Investigate an appropriate metric for measuring the proportion of assets invested in climate mitigation and adaptation.

The Fund continues to work with Brunel in developing an appropriate metric and determining the criteria used to identify investments in climate mitigation and adaptation. This links to wider work being undertaken by various governments including the EU who have developed an EU Taxonomy and the UK which has established a Green Technical Advisory Group to advise the government on the establishment of a UK taxonomy that sets the criteria for an investment to be defined as environmentally sustainable.

Once an appropriate metric has been developed the Fund will also explore setting a target in terms of the % of the Fund invested in climate solutions. The IIGCC is currently undertaking a piece of work looking at enabling the setting of science-based targets for investments in climate solutions with a report expected in October 2021.

The Pension Fund will work with Brunel to set appropriate targets and measures of success in relation to engagement activity undertaken on the Fund's behalf.

Brunel also have a target for all their material holdings to achieve a Transition Pathway Initiative score of at least 4 by 2022 and are targeting engagement and voting action against those companies whose scores are not improving or are falling.

Brunel's voting and engagement provider Hermes EOS have a target outcome that companies' strategies and actions are aligned to the goals of the Paris Agreement. Hermes use four milestones to measure and monitor progress:

Milestone 1 Concern raised with company

Milestone 2 Acknowledgement of the issue

Milestone 3 Development of a credible strategy to address the concern

Milestone 4 Implementation of a strategy or measures to address the concern

The effectiveness of the engagement approach operated by Brunel will be formally reviewed as part of the 2022 stocktake of their Climate Change Policy and the Pension Fund will contribute to this review.

A key component of the engagement approach is to encourage companies to set plans and objectives to align with net-zero.

Progress is being made, for example:
52% of Climate Action 100+ focus companies are now targeting net zero at some level, although we acknowledge more detail on delivery is needed.

Brunel provides updates on the engagements with companies every quarter and more detailed analysis on an annual basis in the Responsible Investment and Stewardship Outcomes Report.

Concluding in Autumn 2022, Brunel and its clients will undertake a climate stocktake against the policy, objectives, and targets.

Work with Brunel to identify, or develop if not available, appropriate metrics, across all investment portfolios, to monitor the successful implementation of the Policy.

Work on metrics is ongoing and is expected to be an evolving process that incorporates developments in available data with the aim of increasing the accuracy and relevance of metrics as well as increasing the level of portfolio coverage.

While metrics are available for listed equities and bonds there is currently a lack of data available for the majority of other assets particularly in a format that allows aggregation at portfolio level. There are some industry developments in this area that could be useful to the Fund, for example the Carbon Risk Real Estate Monitor that has been developed for real estate assets.

Brunel are working with their private market managers to produce climate data that can be used to measure alignment with climate goals.

Consider the merits of joining investor groups whose aims align with those of the Pension Fund as set out in the Policy.

The Fund has become members of The Institutional Investors Group on Climate Change (IIGCC) and Climate Action 100+. In February 2021 the Fund signed the IIGCC's Paris Aligned Investments Initiative: Net Zero Asset Owner Commitment, joining other global investors in committing to investing in support of the goal of global net zero emissions by 2050.

Investigate options for portfolio scenario analysis based on different climate change scenarios so that this can be incorporated in the next fundamental asset allocation review in 2023.

The Fund continues to target production of a report to feed into the 2023 fundamental asset allocation review exercise. This would enable the Fund to include

scenario analysis in its 2023 TCFD report at which point it is anticipated to be a mandatory requirement from MHCLG.

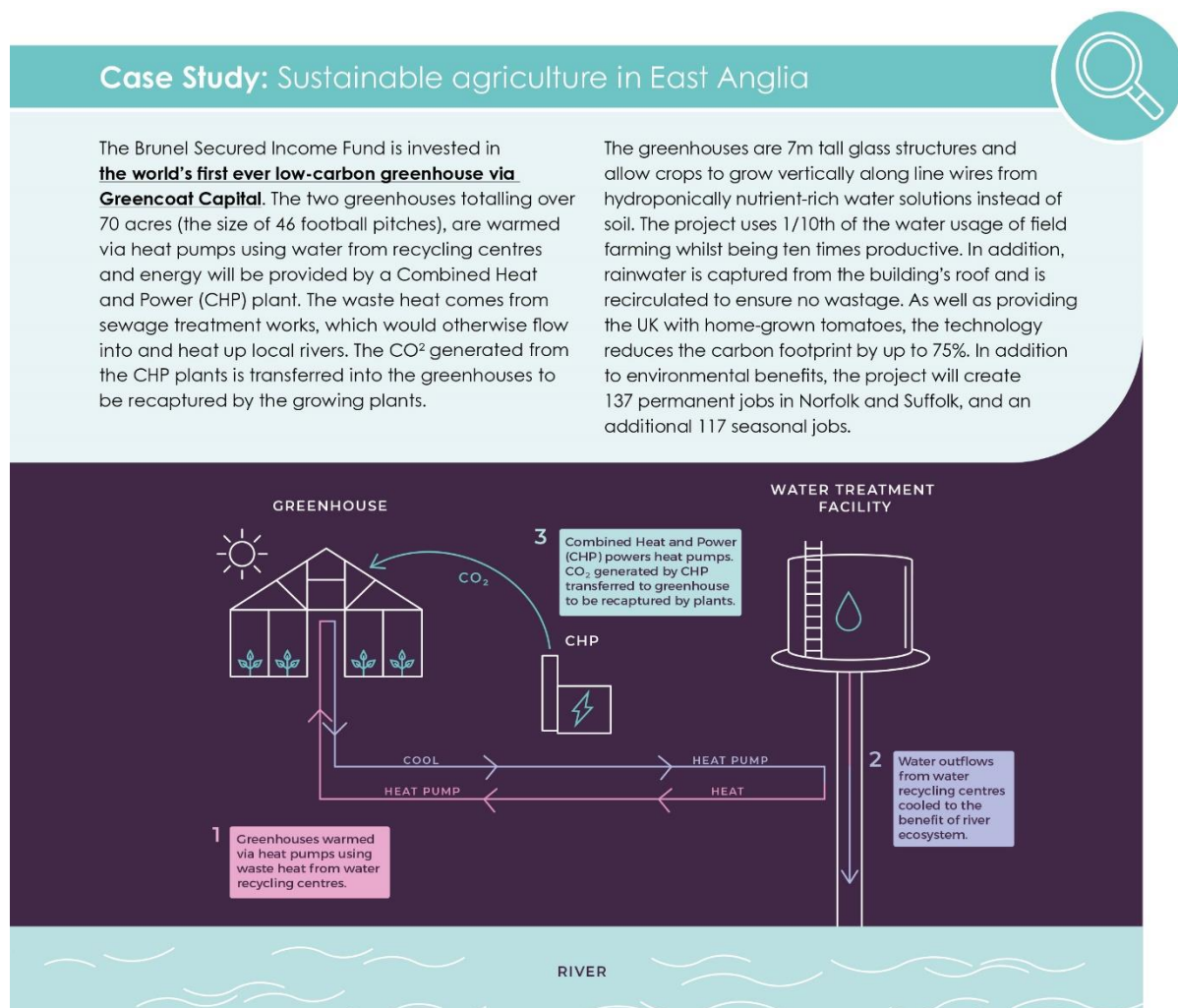
The Fund is exploring options for scenario analysis with Brunel and a discussion at the Brunel Client Group on a possible shared solution is planned.

As well as addressing the Pension Fund's investments the Policy also sets a target for the Pension Fund to be carbon neutral on its own operations by 2030.

The Fund continues to work within Oxfordshire County Council's wider goal to achieve net zero emissions by 2030 across the whole organisation of which the Pension Fund is part. The Fund intends to report data on this and actions taken in future updates.

Case studies

Below are two examples of investments with a climate focus within the Brunel portfolios the Pension Fund is invested in.



Case Study: Capital Dynamics Eagle Shadow Mountain Solar Project



Capital Dynamics has acquired Eagle Shadow Mountain Solar Project. Located near Clark County, Nevada, Eagle Shadow Mountain is the first of two clean energy projects in the region due for completion at the end of 2021.

The site is located on the Moapa River Indian Reservation and is expected to generate up to 400 new jobs during the 18-month construction period. The

Moapa River Indian Reservation has a population of less than 250 tribal residents called the Moapa Band of Paiutes. Capital Dynamics will work closely with members of the tribe and will rely heavily on their rich talent pool for both building and operating the solar and storage plants.

