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# Governance and reporting of climate change risk: guidance for trustees of occupational schemes

Part 1: Background	3
About this Guidance	3
PCRIG guidance on TCFD Recommendations	5
When this Guidance should be followed	5
Compliance with this Guidance	6
Part 2: Climate Change Governance Requirements – Overview	8
"As far as they are able"	8
Ongoing and Discrete Requirements	10
Level of the assessment	11
Risks and opportunities	12
Trustee knowledge and understanding of climate-related risks and opportunities	14
Part 3: Climate change governance and production of a TCFD Report	16
Purpose of disclosures	16
Content of a TCFD Report	16
Governance	17
Strategy	22
Scenario Analysis	26
Risk Management	31
Metrics	36
Targets	48
Part 4: Publication of a TCFD Report	50
Required elements	50
Optional elements	53
Annex: Principles for Effective Disclosures	54

# Part 1: Background

#### **About this Guidance**

- 1. From 1st October 2021, the Occupational Pension Schemes (Climate Change Governance and Reporting) Regulations (Northern Ireland) 2021¹ ("the Climate Change Governance and Reporting Regulations") introduced new requirements relating to reporting in line with the Task Force on Climate-related Financial Disclosures (TCFD) recommendations, to improve both the quality of governance and the level of action by trustees in identifying, assessing and managing climate risk.
- 2. The Occupational Pension Schemes (Climate Change Governance and Reporting) (Miscellaneous Provisions and Amendments) Regulations (Northern Ireland) 2021 ("the Miscellaneous Provisions Regulations") amended the Occupational and Personal Pension Schemes (Disclosure of Information) Regulations (Northern Ireland) 2014 ("the Disclosure Regulations") to introduce disclosure requirements relating to the reports required by the Climate Change Governance and Reporting Regulations.
- 3. From 1 October 2022, the Occupational Pension Schemes (Climate Change Governance and Reporting) (Amendment, Modification and Transitional Provision) Regulations (Northern Ireland) 2022<sup>2</sup> introduce new requirements to be met by trustees of schemes in scope of the Climate Change Governance and Reporting Regulations, by making amendments to those Regulations, in relation to the calculation and reporting of a metric which gives the alignment of the scheme's assets with the climate change goal of limiting the increase in the global average temperature to 1.5°C above pre-industrial levels.
- 4. In complying with the requirements in Part 2 of, and the Schedule to, the Climate Change, Governance and Reporting Regulations trustees are required to have regard to guidance issued from time to time by the Department for Communities<sup>3</sup>.

#### Legal status of this Guidance

5. This Guidance is Statutory Guidance produced under Articles 41A(7) and 41B(3) of the Pensions (Northern Ireland) Order 1995 ("the 1995 Order") and section 109(2A) of the Pension Schemes (Northern Ireland) Act 1993 ("the 1993 Act"), unless otherwise stated, and is in line with Guidance for England, Scotland and Wales.

<sup>&</sup>lt;sup>1</sup> <u>https://www.communities-ni.gov.uk/services/law-relating-social-security-northern-ireland-blue-volumes</u>

<sup>&</sup>lt;sup>2</sup> https://www.legislation.gov.uk/nisr/2022/209/contents/made

<sup>&</sup>lt;sup>3</sup> See Articles 41A(7) and 41B(3) of the Pensions (Northern Ireland) Order 1995. Articles 41A to 41C were inserted into that Order by paragraph 12(2) of Schedule 11 to the Pension Schemes Act 2021.

6. The guidance on trustee knowledge and understanding included at Part 2, paragraphs 33 to 41 is not Statutory Guidance but is intended as best practice. Trustees are not required to have regard to it, but are encouraged to do so.

#### **Expiry or review date**

- 7. This Guidance will be reviewed every 3 years and updated when necessary.
- 8. A review of the Guidance will consider, for possible inclusion, lessons from established and emerging best practice in the identification, assessment and management of climate risks and opportunities and in the production of TCFD reports (see paragraph 14), and improvements in data quality, modelling capabilities and completeness.

#### **Audience**

- 9. This Guidance is for trustees who are subject to the requirements in Part 2 of, and the Schedule to, the Climate Change Governance and Reporting Regulations, as described below. Once the requirements are fully phased in, this will include trustees of both money purchase and non-money purchase schemes with £1bn or more in "relevant assets". It will also include trustees of all authorised master trusts and authorised schemes (once established) providing collective money purchase benefits, in both the accumulation and decumulation phases.
- 10. Trustees of schemes whose relevant assets are £5bn or more at the end of their first scheme year ending on or after 1 March 2020 will be subject to the climate change governance requirements from 1 October 2021 or, if later, from the date they obtain audited accounts in relation to that scheme year (in this Guidance referred to as the "first wave").4
- 11. Trustees of authorised master trusts will be subject to the governance requirements from 1 October 2021 or, if later, the date the trust becomes authorised. Trustees of authorised schemes (once established) providing collective money purchase benefits will be subject to the governance requirements from the date the scheme is authorised.
- 12. Trustees of schemes which are not captured by the first wave and whose relevant assets are £1bn or more at the end of their first scheme year ending on or after 1 March 2021 will be subject to the governance requirements from 1 October 2022 or, if later, the date they obtain audited accounts in relation to that scheme year (in this Guidance referred to as the "second wave").
- 13. Trustees of schemes captured by neither the first nor second waves whose relevant assets are £1bn or more at the end of a scheme year which falls on or after 1 March 2022 will be subject to the governance requirements from the

<sup>4</sup> Ear-marked schemes, which are not required to produce audited accounts, are subject to the requirements from 1 October 2021, where they have relevant assets of ≥£5bn and from 1 October 2022 where they have relevant assets of ≥ £1bn.

- beginning of the scheme year which is one scheme year and one day after the scheme year end date when the relevant assets were £1bn or more.
- 14. Trustees must produce and publish a report ("TCFD report"), containing the information required by Part 2 of the Schedule to the Climate Change Governance and Reporting Regulations, within 7 months of the end of any scheme year in which they were subject to the climate change governance requirements. Regulation 6(2) provides for limited exceptions to this requirement.
- 15. Where a scheme's relevant assets fall below £500m on any subsequent scheme year end date, the trustees will cease to be subject to the climate change governance requirements with immediate effect (unless the scheme is an authorised scheme). The trustees must still publish their TCFD report for the scheme year which has just ended within 7 months of the scheme year end date, unless one of the exceptions in regulation 6(2) applies.
- 16. The circumstances in and timing by which trustees fall in and out of scope of the requirements are further detailed in the Climate Change Governance and Reporting Regulations. The purpose of this Guidance is not to restate those legal requirements, but instead to help trustees understand how to meet them when they apply.
- 17. Trustees of other schemes may also find this Guidance helpful when implementing climate change risk governance and reporting on a voluntary basis.

# PCRIG guidance on TCFD Recommendations

18. The Pensions Climate Risk Industry Group (PCRIG) has produced non-statutory guidance<sup>5</sup> for trustees on ways to approach improving their scheme's climate governance and TCFD disclosures. Whilst it is not mandatory for trustees to consider or follow the PCRIG's guidance, trustees may find its practical nature very helpful. For example, it sets out the types of action trustees may wish to consider following an assessment of climate risks and opportunities (which is beyond the scope of this Guidance). It also suggests wider resources that trustees may find helpful for scenario analysis amongst other topics. Trustees may therefore find it helpful to consider the PCRIG's guidance in addition to this Statutory Guidance.

# When this Guidance should be followed

19. The Climate Change Governance and Reporting Regulations require the trustees of schemes in scope to:

<sup>&</sup>lt;sup>5</sup> Aligning your pension scheme with the Taskforce on Climate-Related Financial Disclosures recommendations – <a href="https://www.gov.uk/government/publications/aligning-your-pension-scheme-with-the-taskforce-on-climate-related-financial-disclosures-recommendations">https://www.gov.uk/government/publications/aligning-your-pension-scheme-with-the-taskforce-on-climate-related-financial-disclosures-recommendations</a>

- implement climate change governance measures and produce a TCFD report containing associated disclosures; and
- publish their TCFD report on a publicly available website, accessible free of charge.
- 20. The amendments made to the Disclosure Regulations by the Miscellaneous Provisions Regulations require trustees who must produce a TCFD report to, among other things:
  - include the website address of the TCFD report in the Annual Report;
  - tell members that the TCFD report has been published and where they can locate it by including this information in the Annual Benefit Statement and, for defined benefit (DB) schemes, the Annual Funding Statement.
- 21. Trustees of occupational pension schemes must have regard to this Guidance when complying with the requirements under the Climate Change Governance and Reporting Regulations and with the requirements in the Disclosure Regulations listed above.

#### 'Must' vs 'Should' vs 'May'

In this Guidance, activities will be described as things trustees either 'should' do, 'may' choose to do or 'must' do. What this means for the purposes of the Guidance is set out below:

**Should -** It is expected that trustees will follow the approach set out in the Guidance and if they choose to deviate from that approach they should describe concisely the reasons for doing so in the relevant section of their TCFD Report.

**May –** Trustees can choose to follow the approach set out in the Guidance, and are encouraged to do so where possible, but if they choose not to they are not expected to explain their reasons in their TCFD Report.

**Must** – This is a requirement imposed by legislation. Failure to meet the requirement may lead to enforcement action by the Pensions Regulator.

# **Compliance with this Guidance**

- 22. For occupational pension schemes, the Pensions Regulator (TPR) monitors and enforces compliance with legislation and provides practical guidance about what trustees or managers need to do. In conjunction with the Department for Work and Pensions, the Department for Communities (DfC) is responsible for answering questions about the policy intentions behind the legislation. However, a definitive interpretation of the legislation is a matter for the courts.
- 23. Trustees and service providers should consider the Climate Change Governance and Reporting Regulations to determine whether the new requirements apply to them, taking further advice where necessary.

- 24. Where the trustees do not comply with a requirement under the Climate Change Governance and Reporting Regulations including where this is as the result of a failure to have regard, or to have proper regard, to this Guidance TPR may take enforcement action which includes the possibility of a financial penalty. A mandatory penalty applies where there is complete failure to publish any TCFD report on a publicly available website, accessible free of charge.
- 25. Enforcement of requirements under the Climate Change Governance and Reporting Regulations is provided for in Part 3 of those Regulations. Regulation 5 of the Disclosure Regulations sets out the penalties for failure to comply with the requirements of those Regulations, as referred to in this Guidance.

# Part 2: Climate Change Governance Requirements – Overview

# "As far as they are able"

- 1. Trustees are required to carry out the following activities "as far as they are able"6:
  - undertake scenario analysis, taking into account the potential impact of climate change on the scheme's assets and liabilities, the resilience of the scheme's investment strategy and the resilience of any funding strategy 7;
  - obtain the Scope 1, Scope 2, and Scope 3 greenhouse gas emissions and other data relevant to their chosen metrics. (Trustees are not required to obtain Scope 3 emissions data in the first scheme year that they are subject to the requirements)<sup>8</sup>;
  - use the data obtained to calculate their selected metrics9;
  - use the metrics they have calculated to identify and assess the climaterelated risks and opportunities which are relevant to the scheme<sup>10</sup>;
  - measure the performance of the scheme against the target they have set in relation to one of their selected metrics<sup>11</sup>.
- 2. Requirements to undertake the relevant activities "as far as they are able" recognise that there may be gaps in the data trustees are able to obtain about their scheme assets for the purposes of carrying out scenario analysis or calculating metrics. In addition, it recognises that particular challenges may arise in relation to the quantification of climate risks including some sovereign bonds, relevant contracts of insurance, asset backed contribution structures and derivatives. Additionally, in the case of DB schemes, there may be limitations in

<sup>&</sup>lt;sup>6</sup> As defined in paragraph 25 of the Schedule to the Climate Change Governance and Reporting Regulations.

<sup>&</sup>lt;sup>7</sup> Paragraphs 6 and 7 of the Schedule to the Climate Change Governance and Reporting Regulations.

<sup>&</sup>lt;sup>8</sup> Paragraphs 18 to 20 of the Schedule to the Climate Change Governance and Reporting Regulations.

<sup>&</sup>lt;sup>9</sup> Paragraphs 18(b), 19A(b) and 20(b) of the Schedule to the Climate Change Governance and Reporting Regulations.

<sup>&</sup>lt;sup>10</sup> Paragraphs 18(c), 19A(c) and 20(c) of the Schedule to the Climate Change Governance and Reporting Regulations.

<sup>&</sup>lt;sup>11</sup> Paragraph 23(a) of the Schedule to the Climate Change Governance and Reporting Regulations.

- the scenario analysis they can carry out in relation to their liabilities, funding strategy or the sponsoring employer's covenant.
- 3. Certain data may be expensive to collect or associated analysis complex to carry out. Trustees or those acting on their behalf are not expected to spend disproportionate amounts of time attempting to fill data gaps in relation to firms which are unlikely due to their business activities or size to contribute to climate-related risks posed to the scheme.
- 4. If trustees are able to obtain data or analysis in a format which is usable but only at a cost – whether directly or indirectly via liaison with advisers – which they believe to be disproportionate, they may make the decision to treat this data or analysis as unobtainable. A robust justification for doing so should be set out in their TCFD report.
- 5. Trustees should prioritise engagement on persistent data gaps which are likely to make the most material difference to accurately assessing the level of climate-related risk (or opportunity), to ensure that data quality continues to improve. Additional information requests to fill data gaps should be made with due regard to the size of the investee company in question and the likely materiality of their contribution to climate-related risks faced by the scheme.
- 6. The requirement to undertake scenario analysis "as far as they are able" will require trustees, or those acting on their behalf, to seek comprehensive data across their portfolio. For trustees of DB schemes, considering the resilience of the funding strategy as part of their scenario analysis would include considering the sponsoring employer's covenant "as far as they are able". However, if they cannot obtain a complete picture, they should still undertake scenario analysis.
- 7. In cases of incomplete data, trustees may need to:
  - where they have a majority of data for particular asset classes use modelling or estimation to fill the missing data gaps;
  - where there are certain asset classes or aspects of liabilities for which impacts, data or modelling tools are very limited or uncertain - take a qualitative instead of quantitative approach (see Part 3, paragraphs 64 to 67) for those aspects of their analysis, or proceed with scenario analysis for part of their portfolio or for those liabilities only.
- 8. For any data trustees were unable to obtain, trustees must describe in their TCFD report the reasons for this.
- 9. For metrics, trustees must obtain data required to calculate their chosen metrics "as far as they are able". They must then use this obtained data to calculate their chosen metrics as far as they are able. Similarly, trustees must measure, as far as they are able, performance against the target they have set in relation to one of their chosen metrics. Limitations in data should not deter trustees from taking steps towards quantifying and assessing their scheme's exposure to climate-related risks and opportunities more effectively through the use of metrics, and managing that exposure through the use of targets. Even estimated or proxy data can help identify carbon-intensive hotspots in portfolios, which can help to inform

their investment and funding strategies. Trustees should, as far as they are able, seek to populate gaps in data. For example, they may request that service providers apply sectoral averages based on companies that do publish data to fill in gaps in relation to companies who do not, or use other assumption-based modelling.

- 10. It is noted that methodologies for calculating metrics in relation to certain asset classes, particularly derivatives, are not yet established. It is not expect trustees to be able to readily calculate emissions associated with derivatives at the current time.
- 11. For metrics and targets, the Scope 3 emissions <sup>12</sup> of a scheme's investments are likely to be challenging. Trustees are therefore not required to obtain Scope 3 emissions in the first scheme year that the regulations apply to them, although they may wish to do so. Trustees should seek to ensure the emissions of scheme assets are calculated in line with the GHG Protocol Methodology <sup>13</sup>. The emissions should then be apportioned using a consistent approach <sup>14</sup> to allow, so far as possible, for aggregation and comparability across asset classes and funds and between schemes.
- 12. For metrics trustees must explain in their TCFD report why, if relevant, the data does not fully cover the portfolio or extend to all required scopes of emissions.
- 13. This explanation should be concise but it should set out clearly what data is missing and the impact this has in terms of the scope of the analysis or calculations the trustees have been able to do. It should also make clear where estimations or models have been used to fill gaps, any assumptions that could impact significantly on the results, whether any data gaps still remain and what steps the trustees are taking to address these gaps.
- 14. If trustees are using third-party providers for scenario analysis, calculation of metrics, or measuring the scheme's performance against targets, they should make sure that they are provided with sufficient information to be able to report on this.

## **Ongoing and Discrete Requirements**

15. Some of the requirements imposed on trustees under the Climate Change Governance and Reporting Regulations are ongoing. This means that the activities trustees undertake to meet them should be maintained and where necessary, updated throughout the scheme year. This applies to the activities

<sup>&</sup>lt;sup>12</sup> Defined in paragraph 26 of the Schedule to the Climate Change Governance and Reporting Regulations.

<sup>&</sup>lt;sup>13</sup> https://ghgprotocol.org/scope-3-technical-calculation-guidance - see in particular category 15 – but note also footnote 39 under Metrics below.

<sup>&</sup>lt;sup>14</sup> An emerging standard is being developed by the Partnership for Carbon Accounting Financials (PCAF) - https://carbonaccountingfinancials.com/

- associated with governance, strategy (excluding scenario analysis) and risk management.
- 16. Some of the requirements are discrete. This means that the duty is to do something at a particular frequency. This applies to the activities associated with scenario analysis, metrics and targets.

#### Frequency of discrete activities

- 17. Scenario analysis must be carried out in the first scheme year during which the requirements in Part 1 of the Schedule to the Climate Change Governance and Reporting Regulations apply to the trustees— even if the first year of application is a part year and then at least every three scheme years thereafter. In the intervening scheme years when trustees are not required to carry out scenario analysis, they must still consider whether it is nevertheless appropriate to do so. Further information is set out in the section on scenario analysis below.
- 18. The data for metrics should be obtained, and the metrics calculated, in each scheme year. Performance against the target which trustees have set should also be measured and the target reviewed in each scheme year. Further information is set out in the section on metrics and targets below.

#### Level of the assessment

- 19. **Governance and Risk Management** activities should be carried out for the whole scheme.
- 20. Trustees should undertake the **Strategy activities, including scenario analysis**, at the following levels and report accordingly:
  - For a single section DB scheme, or for a defined contribution (DC) scheme with no member choices [just one popular arrangement, and no self-select funds]: at the level of the whole scheme.
  - For a scheme with more than one DB "section"<sup>15</sup>: at the level of each section. However, sections with similar characteristics in relation to assets, liabilities and funding may be grouped.
  - For DC schemes: for each popular arrangement offered by the scheme. A
    popular arrangement is considered to be one in which £100m or more of the
    scheme's assets are invested, or which accounts for 10% or more of the
    assets used to provide money purchase benefits (excluding assets which are
    solely attributable to Additional Voluntary Contributions).

<sup>&</sup>lt;sup>15</sup> In this Guidance, "sections" is intended to capture both formally segregated sections (in line with paragraph 1 of Schedule 2 to the Occupational Pension Schemes (Scheme Funding) Regulations (Northern Ireland) 2005 (S.R. 2005 No. 568)) and sections with different investments, liabilities or funding which do not meet that definition.

- 21. For schemes providing both DB and DC benefits, the two benefits should be considered separately for the purposes of the above so for a scheme with two DB sections with dissimilar characteristics and one popular DC arrangement, the activities under Strategy should be carried out three times.
- 22. Where popular arrangements use life-styling or a number of target date funds for different age profiles, trustees may carry out the assessment in the round, but should identify risks and opportunities which affect particular cohorts more strongly.
- 23. Where appropriate, the approach set out above for Strategy activities should also be followed by trustees for calculating and reporting **Metrics**. However, if, in calculating absolute emissions metrics and emissions intensity metrics, trustees believe it is not meaningful to aggregate data across certain asset classes within a given section or arrangement of the scheme, they should not do so.
- 24. Trustees are free to measure performance against **Targets** and report on this in whatever way they see fit.
- 25. For self-select funds and default arrangements which do not meet the definition of a popular arrangement, trustees may also choose to undertake and report on the Strategy activities, including scenario analysis, calculate and report on Metrics, and set, measure performance against and report on Targets.

# Risks and opportunities

- 26. To meet the requirements imposed by the Climate Change Governance and Reporting Regulations, trustees should have a good understanding of the climate-related risks and opportunities that are relevant to their scheme. Trustees should understand that as a systemic risk, climate change risk could include risks outside of the obvious sectors, including those which are both directly and indirectly affected.
- 27. Trustees may find it helpful to split their analysis of risks into 'physical risks' and 'transition risks' as a way to understand the potential impact on the scheme's investments:
  - Physical risks are those that pertain to the physical impacts that occur as
    the global average temperature rises. For example, the rise in sea levels
    could have impacts such as flooding and mass migration. Extreme weather
    events, such as flooding and fires, could become more frequent and severe,
    and these incidents could threaten physical assets and disrupt supply chains.
  - Transition risks arise as we seek to realign our economic system towards low-carbon, climate-resilient solutions. Changes in industry regulation, consumer preferences and technology will take place and impact on current and future investments.
- 28. Litigation risks may also result where businesses and investors fail to account for the physical or transition risks of climate change.

- 29. Climate change risks are financial risks. The financial risks resulting from the effects of climate change have a number of distinctive elements:
  - Far-reaching in breadth and magnitude: The financial risks from physical and transition risk factors are relevant to multiple lines of business, sectors and geographies. Their full impact may therefore be larger than for other types of risks, and the risks are potentially non-linear, correlated and irreversible.
  - The time horizons over which financial risks may be realised are uncertain.
     Past data is unlikely to be a good predictor of future risks.
  - There is a high degree of certainty that financial risks from some combination of physical and transition risk factors will occur.
  - The magnitude of future impact will, at least in part, be determined by the actions taken today. This includes actions by governments, firms, pension schemes and a range of other actors.
- 30. Trustees have a legal duty to consider matters which are financially material to their investment decision-making. Trustees must not only consider the kinds of financial risks which might affect investments (and in the case of DB schemes, their liabilities and sponsoring employers' covenant), they should consider where climate change, and action to address climate change, might contribute positively to anticipated returns or to reduced risk.
- 31. Climate change related opportunities may include access to new markets and new technologies related to the transition to a low-carbon economy. Examples of climate-related risks and opportunities and their potential financial impacts are comprehensively set out in the TCFD's Final Recommendations<sup>16</sup>.
- 32. Climate-related risk and opportunity is one of the major categories of financial factors of which trustees need to take account. Trustees also need to take account of other risks affecting the pension scheme, in line with their fiduciary duty. As such, trustees are expected to take a proportionate approach to managing climate-related risks and opportunities. The time spent by trustees on considering climate-related risks and opportunities, should not come at the expense of considering other major risks, including financially material social and governance factors.

13

<sup>&</sup>lt;sup>16</sup> Recommendations of the Task Force on Climate-related Financial Disclosures: final report - <a href="https://assets.bbhub.io/company/sites/60/2020/10/FINAL-2017-TCFD-Report-11052018.pdf">https://assets.bbhub.io/company/sites/60/2020/10/FINAL-2017-TCFD-Report-11052018.pdf</a> - pages 5 to 11.

# Trustee knowledge and understanding of climate-related risks and opportunities

**Important** - this section is not Statutory Guidance, but is intended as best practice.

Trustees are not required to have regard to this section of the Guidance but are encouraged to do so. Trustees are not expected to provide an explanation in their TCFD Report if they choose not to follow this Guidance.

- 33. Beyond existing duties to have knowledge and understanding of pensions law and trusts law and the principles relating to investments 17, new requirements for knowledge and understanding in relation to climate change apply to individual and corporate trustees who are subject to requirements in the Climate Change Governance and Reporting Regulations. The new requirements are prescribed by regulation 2 of the Miscellaneous Provisions Regulations.
- 34. Individual trustees must have sufficient knowledge and understanding of the identification, assessment and management of risks arising to occupational pension schemes from the effects of climate change and of opportunities relating to climate change to enable them to meet the requirements in Part 1 of the Schedule to the Climate Change Governance and Reporting Regulations.
- 35. Individual trustees must have the appropriate degree of knowledge and understanding of these matters to enable them to properly exercise their functions. In the case of corporate trustees, the company is required to secure that any person exercising its functions as trustee has the appropriate degree of knowledge and understanding of these matters.
- 36. This means, for example, understanding how scenario analysis works, why climate change poses a material financial risk and its relevance to overall risk management.
- 37. This understanding need not require a mastery of technical detail, however. It is anticipated that in most cases, trustees or those exercising trustee functions in the case of corporate trustees will not be carrying out the underlying activities to identify or assess climate-related risks and opportunities themselves. Nor will they be implementing investment strategies which take account of climate change in a hands-on way. Rather, they will identify experts to do this. Yet, as trustees are ultimately responsible for identifying, assessing and managing climate-related risks the scheme is exposed to, they should have sufficient knowledge and understanding to understand the results of any analysis and know how to take action in light of these results, or indeed to challenge assumptions, external advice and information. In the case of corporate trustees, they should ensure that those exercising their functions have this knowledge and understanding.

14

<sup>&</sup>lt;sup>17</sup> See Article 224 of the Pensions (Northern Ireland) Order 2005 in the case of individual trustees and Article 225 in the case of corporate trustees.

- 38. Trustees are encouraged to ensure that they or those exercising their functions, in the case of corporate trustees are keeping their knowledge and understanding of how to identify, assess and manage climate-related risks and opportunities up-to-date, so that they can meet the knowledge and understanding requirements.
- 39. Stewardship activities, including engagement and voting activities, can promote the long term success of pension schemes by encouraging investee companies to take a long-term, responsible approach to their business strategy. Through engagement with intermediaries including consultants and asset managers, as well as investee companies, trustees will also be in a good position to keep their knowledge of climate change risk and opportunities up-to-date and learn about governance approaches, strategies, risk management tools, metrics and targets.
- 40. Industry collaboration, not only on stewardship but also on trustee knowledge and understanding more broadly, is encouraged, particularly as resources, including climate data, analytical tools and associated guidance improve.
- 41. The disclosures made in the TCFD report will help demonstrate to those reading that report whether the trustees have an appropriate degree of knowledge and understanding in respect of the climate-related risks and opportunities they manage. Where the content of the disclosures is poor, this could raise concerns to TPR about the trustees' level of knowledge and understanding.

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<sup>&</sup>lt;sup>18</sup> In relation to schemes providing money purchase benefits, regulation 23(1)(d) of the Occupational Pension Schemes (Scheme Administration) Regulations (Northern Ireland)1997 also requires trustees to prepare an annual statement which must describe how the requirements of Articles 224 and 225 of the Pensions (Northern Ireland) Order 2005 (requirements for knowledge and understanding) have been met during the scheme year and explain how the combined knowledge and understanding of the trustees or managers, together with the advice which is available to them, enables them properly to exercise their functions as trustees or managers of the scheme.

# Part 3: Climate change governance and production of a TCFD Report

- 1. This section of the Guidance sets out the matters to which trustees of the schemes in scope must have regard when producing a TCFD report in accordance with the Climate Change Governance and Reporting Regulations.
- 2. To do this effectively, trustees need to meet the requirements specified in the Regulations in relation to Governance, Strategy and Risk Management, carry out scenario analysis, select and calculate appropriate Metrics and set Targets and measure the scheme's performance against them.

# **Purpose of disclosures**

- The Climate Change Governance and Reporting Regulations require trustees to disclose a range of information about their scheme. The specifics of these disclosures are set out in Part 2 of the Schedule to the Regulations, with more information in this Guidance.
- 4. In general, trustees should regard disclosure as the output of the processes they have put in place and actions they have taken to understand and address the risks and opportunities that climate change poses to the scheme.
- 5. Disclosing the information is an important way to help achieve transparency toward members, TPR and the pension sector generally. This should improve accountability, and the development of future regulation and best practice. However, the principal purpose of disclosure is to ensure that trustees are thorough and rigorous in taking the actions required by the Climate Change Governance and Reporting Regulations. This is aligned with the intention to make TCFD-aligned disclosures mandatory across the economy by 2025.<sup>19</sup>

# **Content of a TCFD Report**

- A significant benefit of making TCFD reports publicly available is that it will
  provide members with the opportunity to engage with their scheme's climaterelated risks and opportunities, and the potential impacts on their pension
  savings.
- 7. Whilst the challenges of producing a TCFD report which is digestible by all beneficiaries is acknowledged, trustees should present their TCFD reports in a way that would allow a reasonably engaged and informed member to be able to

<sup>&</sup>lt;sup>19</sup> https://www.gov.uk/government/publications/uk-joint-regulator-and-government-tcfd-taskforce-interim-report-and-roadmap

- interpret and understand trustees' disclosures, and raise concerns or queries where appropriate.
- 8. As a minimum, the TCFD report should include a plain English summary which is for members to read and allows them to become easily acquainted with the key findings from the report. This will allow trustees to retain the necessary more indepth analysis in the main body of the report, which more engaged members may still wish to read in full.
- 9. Trustees should also consider the TCFD's own Principles of Effective Disclosure, as set out in the Annex, when producing their TCFD Reports.
- 10. In summary, the core elements that should be included in the TCFD report are:



#### Governance

The organisation's governance around climate-related risks and opportunities

#### Strategy

The actual and potential impacts of climaterelated risks and opportunities on the organisation's businesses, strategy and financial planning

#### Risk Management

The processes used by the organisation to identify, assess and manage climate-related risks

#### **Metrics and Targets**

The metrics and targets used to assess and manage relevant climate-related risks and opportunities

## Governance

- 11. 'Governance' refers to the way a scheme operates and the internal processes and controls in place to ensure appropriate oversight of the scheme. Those undertaking governance activities are responsible for managing climate-related risks and opportunities. This includes trustees and others making scheme-wide decisions. This includes but is not limited to decisions relating to investment strategy or how it should be implemented, funding, the ability of the sponsoring employer to support the scheme and liabilities.
- 12. Under the Climate Change Governance and Reporting Regulations trustees must establish processes to satisfy themselves that any person undertaking scheme governance activities takes adequate steps to identify, assess and manage any climate-related risks and opportunities which are relevant to those activities. Trustees must also establish processes to satisfy themselves that others advising

- or assisting the trustees with respect to governance activities take adequate steps to identify and assess any relevant climate-related risks and opportunities.
- 13. Firms carrying out asset management alone would not typically be considered to be undertaking governance activities. Administrators are unlikely to be in scope unless they are undertaking activities related to the scheme to which climate-related risks and opportunities are relevant. With regard to those advising or assisting the trustees legal advisers are specifically excluded from the requirement.
- 14. The PCRIG Guidance<sup>20</sup> provides some information on how trustees can factor climate-related risk management capabilities into the selection, review and monitoring of asset managers.

#### Trustees' and others' oversight of climate-related risk

- 15. Trustees have ultimate responsibility for ensuring effective governance of climate-related risks and opportunities. The roles and responsibilities of the trustees and others making scheme-wide decisions pertaining to climate-related risk should be addressed at board, sub-committee and individual trustee levels. The Climate Change Governance and Reporting Regulations require trustees to put in place and report on the governance processes that ensure they have oversight of the climate-related risks and opportunities relevant to the scheme. These governance processes should enable trustees to be confident that their statutory obligations and fiduciary duties are being met.
- 16. Trustees should decide the appropriate governance structure and processes for their scheme. Trustees may choose to take an approach to the oversight and management of climate-related risks and opportunities that replicates the process for how they consider other risks and opportunities. Alternatively, trustees may decide that the governance process around climate-related risk and opportunities should be separate, reflecting the unique challenge these risks pose and the severity of the impact they could have on their scheme. Either approach is acceptable trustees may base the decision on their assessment of the magnitude, nature, unpredictability and duration of climate-related risks to the scheme, and may take account of cost and complexity.
- 17. Trustees should allocate time and resources for meeting their obligations on climate change governance and reporting. It is expected that for most schemes, trustees will require regular discussion of climate-related risk and opportunities at board level, as a substantive agenda item.
- 18. All schemes are exposed to some degree of climate-related risks and opportunities. The appropriate amount of time and resource the trustee allocates to governing these risks will depend on factors such as the size, type and maturity of the scheme, and the degree to which the scheme is exposed to climate-related risk. Trustees should use outputs from other TCFD-related

<sup>&</sup>lt;sup>20</sup>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file/9 55876/aligning-your-pension-scheme-with-tcfd-recommendations-part-2.pdf

- activities, including Risk Management, Strategy (including scenario analysis) and Metrics and Targets to help determine how much time and resource is allocated to overseeing climate-related risk.
- 19. Trustees may need to revise their governance structure and processes in light of these outputs. For example, if trustees discover, through scenario analysis, that some of the scheme's assets are particularly vulnerable to a type of climaterelated risk, they should reconsider whether they are dedicating sufficient resource to processes for assessing and mitigating risk.

# Oversight of climate-related risk by those who undertake governance activities and advise or assist with those activities

- 20. Most occupational pension schemes operate a governance structure that is at least partly reliant on persons other than the trustees or trustee board. The Climate Change Governance and Reporting Regulations apply in respect of those undertaking governance activities in relation to the scheme and those who advise or assist the trustees with respect to governance activities. By undertaking governance activities, this means making scheme-wide decisions. By advising or assisting with respect to governance activities, this means advising or assisting the trustee with scheme-wide decisions. Those undertaking governance activities or advising or assisting with respect to these activities include:
  - employees of the scheme;
  - employees of the principal or controlling employer;<sup>21</sup>
  - employees of the scheme funder or strategist<sup>22</sup> (in the case of a master trust); and
  - external advisers who provide services to the trustee.
- 21. External advisers include those who influence significant climate-related decisions, including investment consultants, scheme actuaries, voting advisers, covenant advisers and fiduciary managers. The common characteristic of these persons is that they are engaged by the trustees or the sponsoring employer, to advise or assist the trustees with scheme-wide decisions or to occasionally make scheme-wide decisions.
- 22. Trustees must establish and maintain processes to satisfy themselves that those assisting with or advising on scheme governance activities take adequate steps to identify and assess any climate-related risks and opportunities which are relevant to the matters on which they are advising or assisting. However, this need not be a separate process for each type of advice or assistance, and an approach proportionate to the materiality of the climate-related risks and

<sup>&</sup>lt;sup>21</sup> "principal employer" means the principal employer for the purposes of the scheme in accordance with the scheme rules. "controlling employer" means the employer that has the power to act on behalf of all employers in the scheme in relation to the scheme rules.

 $<sup>^{22}</sup>$  Section 39 of the Pension Schemes Act (Northern Ireland) 2021 defines "scheme funder" and "scheme strategist".

- opportunities which are relevant to the matters being assisted with, or advised on, is expected.
- 23. Trustees should clearly define the roles and responsibilities, in relation to climate-related risk, of the groups of people they consider to be involved in governing the scheme. This should not extend beyond the role these persons hold in relation to the specific scheme.
- 24. Trustees should satisfy themselves that those undertaking governance activities, other than the trustee, and those advising or assisting in relation to those activities each have adequate climate-related risk expertise and resources, to the extent necessary for that person's role. The governance processes put in place should enable trustees to engage with those governing the scheme or advising or assisting with governance, and check that they have adequately prioritised climate-related risk.
- 25. When using external advisers to identify and/or assess climate-related risks and opportunities, trustees should consider and document the extent to which these responsibilities are included in any agreements, such as investment consultants' strategic objectives and service agreements.
- 26. Trustees must also ensure that the scheme's governance process and structure provides them with adequate oversight of how those governing the scheme, on their behalf, are managing the scheme and adequately assessing and managing climate-related risks and opportunities.
- 27. Trustees should ensure that persons to whom they have assigned climate-related responsibilities have clear directions in terms of how and when they inform trustees of their work. It is expected that trustees would need regular updates, the frequency of which will depend on the particular risks the scheme is exposed to and the results of other TCFD-related outputs, like scenario analysis. It is important that trustees understand the information provided to them and can critically challenge this information, where appropriate.
- 28. Trustees cannot delegate responsibility for their obligations under the Climate Change Governance and Reporting Regulations. Trustees have ultimate responsibility for how the scheme manages climate-related risks and opportunities. The requirements do not impose new legal duties on persons other than trustees.
- 29. Trustees should ensure that information about the scheme that is relevant to the identification, assessment and management of risks and opportunities relating to climate change is shared between persons tasked with these responsibilities. There should be clear lines of communication between those working on climate-related risk and others within the scheme.
- 30. Trustees should provide opportunities for their employees carrying out governance activities to undertake training on climate risks and opportunities. Where skills gaps are identified by the trustees, they may find it useful to encourage external advisers to do the same for their own employees.
- 31. Trustees may find it helpful to do a skills audit in relation to:

- the trustees' expertise on climate change;
- the expertise of others undertaking governance activities; and
- the expertise of those advising or assisting in respect of governance activities.
- 32. Having a clearer picture of the skills and gaps that exist across these three groups will help the trustees develop processes to keep their knowledge and understanding in relation to Governance, Strategy, Risk Management and Metrics and Targets up-to-date.

## Disclosure of governance information

- 33. In relation to the governance disclosure requirements, trustees must describe in their TCFD report:
  - how they maintain oversight of climate-related risks and opportunities which are relevant to the scheme;
  - the roles of those undertaking scheme governance activities, in identifying, assessing and managing climate-related risks and opportunities relevant to those activities;
  - the processes the trustees have established to satisfy themselves that those undertaking scheme governance activities take adequate steps to identify, assess and manage those risks and opportunities;
  - the role of those advising or assisting the trustees with scheme governance activities; and
  - the processes the trustees have established to satisfy themselves that the
    person advising or assisting takes adequate steps to identify and assess any
    climate-related risks and opportunities which are relevant to the matters on
    which they are advising or assisting.
- 34. To help contextualise these disclosures, trustees should concisely describe:
  - how the board and any relevant sub-committees are informed about, assess and manage climate-related risks and opportunities and the frequency at which these discussions take place;
  - whether they questioned and, where appropriate, challenged the information provided to them by others undertaking governance activities – or advising and assisting with governance; and
  - the rationale for the time and resources they spent on the governance of climate- related risks and opportunities.
- 35. Trustees should also concisely describe, in relation to those who undertake governance activities, or advise or assist with governance of the scheme:
  - the kind of information provided to them by those persons about their consideration of climate-related risks and opportunities faced by the scheme;
     and

- the frequency with which this information is provided.
- 36. Trustees should describe the training opportunities they provided for their employees in relation to climate change risks and opportunities. Where trustees identified skills gaps, they may also describe whether they encouraged external advisers to provide training opportunities.
- 37. Trustees may wish to provide an organogram or structural diagram in their TCFD report, showing which groups / individual roles have responsibilities for governance of climate-related risks and opportunities. This may include executive officers, in-house teams and / or third-parties engaged by the trustees. For the avoidance of doubt, there is no expectation that this would involve disclosing personal data of individuals.

# **Strategy**

38. Trustees should think strategically about the climate-related risks and opportunities that will have an effect on the scheme. In doing so they must consider climate-related risks and opportunities in relation to their investment strategy and their funding strategy, where they have one. Part of this assessment will include scenario analysis. More detail about this is set out from paragraph 62 onwards.

#### Investment strategy and funding strategy

- 39. 'Investment strategy' refers to factors such as the scheme's strategic asset allocation, the selection of investment mandates and portfolio construction. It includes whether the scheme's investments and mandates are active or passive, pooled or segregated, growth or matching, have long or short time horizons and are liquid or illiquid in nature.
- 40. 'Funding strategy' refers to the strategy by which the trustees expect to have sufficient assets to meet the expected future payments due from the scheme. It includes consideration of:
  - the scheme's assets and how the value(s) of the assets held are expected to develop in the future;
  - the scheme's liabilities and the assumptions used to determine them;
  - the contributions that will be paid by the sponsoring employer to meet the scheme funding requirements of Part IV of the Pensions (Northern Ireland)
     Order 2005 (and the likelihood of those contributions being paid);
  - the strength of the covenant offered by the sponsoring employer and how the strength of the covenant is expected to develop over the expected lifetime of the scheme.
- 41. Consideration of the resilience of the funding strategy to the effects of climate change includes consideration of the sponsoring employer's covenant as well as

covering tolerance to changes in assumptions. This includes undertaking scenario analysis.

#### Scope of assessment

42. All asset types are within scope for the assessment of a scheme's investment strategy, funding strategy (where it has one) and for scenario analysis. Trustees should not start from the assumption that climate change is irrelevant for some assets or sectors. For example, climate-related risks could affect the value of assets such as corporate and sovereign debt. Climate change may also affect the strength of the sponsoring employer's covenant.

#### Time horizons

- 43. Trustees must decide the short, medium and long-term time horizons that are relevant to their scheme. Trustees must state in their TCFD report the time horizons they have chosen.
- 44. It is up to trustees how they determine their time horizons. However, in deciding what the relevant time horizons are, trustees must take into account the liabilities of the scheme and its obligations to pay benefits. Trustees should also take account of the following:
  - In a DB scheme or a DB section<sup>23</sup> of a scheme: the likely time horizon over which current members' benefits will be paid. This may be the longest time horizon they will need to consider.
  - In a DC scheme or a DC section of a scheme: the likely time horizon over which current members' monies will be invested to and through retirement. This may be the longest time horizon they will need to consider.
- 45. Trustees may also consider other factors such as the scheme's cash flow, investment strategy and, where they have one, funding strategy.
- 46. Trustees are not required to disclose in their TCFD report why they have chosen certain time horizons. However, they may decide to do so.

## Types of risks and opportunities

47. Trustees must identify, and assess the impact of, what they consider to be the relevant climate-related risks and opportunities for each time horizon (short, medium and long term). See Part 2, paragraphs 26 to 32 above for guidance on types of climate-related risks and opportunities that may be relevant to the scheme. Examples of climate-related risks and opportunities and their potential financial impacts are also comprehensively set out in the TCFD's Final Recommendations<sup>24</sup>.

<sup>&</sup>lt;sup>23</sup> See footnote 15

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<sup>&</sup>lt;sup>24</sup> See Tables 1 and 2 at pages 10 and 11: <a href="https://assets.bbhub.io/company/sites/60/2020/10/FINAL-2017-TCFD-Report-11052018.pdf">https://assets.bbhub.io/company/sites/60/2020/10/FINAL-2017-TCFD-Report-11052018.pdf</a>

#### Considerations relating to the employer covenant

- 48. The covenant is a significant source of support for most DB schemes. Sponsoring employers' businesses may be affected by climate change including (but not limited to) physical risks (e.g. to their supply chains) and/or transition risks, which may be particularly impactful for sponsoring employers in, or dependent upon, high carbon sectors.
- 49. As part of their assessment of the resilience of the funding strategy, trustees of DB schemes must consider the impact of climate-related risks and opportunities on the sponsoring employer's covenant over the relevant short, medium and long-term time horizons. Trustees' scenario analysis must also, as far as they are able, consider the resilience of the covenant in the relevant chosen scenarios.
- 50. Trustees seeking information about the impact of climate change on their sponsoring employer may wish to consider:
  - Engaging with the sponsoring employer to discuss its assessment of the climate-related risks, and opportunities, to which it is exposed. The information above on "Risks and Opportunities" (see Part 2, paragraphs 26 to 32) may help frame this discussion.
  - Any climate-related disclosures, such as those made in line with the TCFD's recommendations, by the sponsoring employer.
- 51. Where trustees of a DB scheme have identified climate-related concerns with the sponsoring employer and the potential strength of the covenant, they are encouraged to consult with, and where necessary challenge, the sponsor, where they deem this appropriate. Trustees may wish to take action such as:
  - considering whether their investment strategy and funding strategy are sufficiently prudent, in light of non-mitigated climate risks;
  - considering whether their long-term funding objective is appropriate or needs to change;
  - incorporating climate-related triggers into the scheme's contingency planning framework.
- 52. However, trustees are not compelled to take action. Where they cannot form a robust assessment of the impact of climate change on the covenant, for example because of a lack of information or uncertainty about the impact of climate change on the sponsoring employer's business model, they should keep the assessment under review and consider elevating covenant risks within their risk management priorities.
- 53. Discussions about the impact of climate change on the covenant will often involve confidential information about the sponsoring employer. This is equally true for other information shared as part of the covenant review process and wider discussions. Its confidential nature should not therefore prevent it from being shared with trustees and their advisers.
- 54. When making their own TCFD disclosures, trustees should take account of the confidential nature of information shared about the covenant. However, trustees

and sponsoring employers should not assume that this information is always confidential business information that would harm the sponsoring employer if disclosed. For example, trustees may be able to disclose higher level information and/or information about the process they have followed. Trustees may wish to take legal advice regarding confidentiality.

# Assessing the impact on the investment strategy and funding strategy

- 55. Trustees must, on an ongoing basis, assess the impact of the climate-related risks and opportunities they have identified on the scheme's investment strategy, and the funding strategy, where the scheme has one.
- 56. Climate change may affect a scheme's assets, including by impairment or enhancement of the income or capital growth expected to be generated by the individual investments held. DB schemes' liabilities may also be affected by impacts on inflation, interest rates and demographic factors, particularly longevity. Climate change may also impact the sponsoring employer's covenant.
- 57. Trustees should consider climate-related risks and opportunities in the context of their strategic asset allocation, and how climate change may affect the different asset classes the pension scheme is invested in over time. They should also take account of the anticipated changes in asset allocation over time when assessing the impact on their investment and funding strategy.
- 58. Trustees should consider the asset manager mandates they have set or intend to set for each asset class. Trustees may wish to align the investment mandates they implement with the climate-related risks and opportunities they have identified as relevant to their scheme.
- 59. Trustees investing in pooled funds should consider how the managers take climate change into account in those funds, including in relation to stewardship and engagement.
- 60. It is up to trustees how they undertake the assessment of the impact on the investment and funding strategies. However, trustees may find it helpful to "grade" or organise the identified risks and opportunities across the short, medium and long-term time horizons they set. Factors that could be considered include likelihood, timeline, severity of impact etc.
- 61. In line with the TCFD's Supplemental Guidance for Asset Owners, trustees may wish to undertake, either directly or through their agents, engagement activity with investee companies to encourage better disclosure and practices related to climate-related risks. This may help improve data availability and trustees' ability to assess such risks<sup>25</sup>.

25

<sup>&</sup>lt;sup>25</sup> See page 35: <a href="https://assets.bbhub.io/company/sites/60/2020/10/FINAL-TCFD-Annex-Amended-121517.pdf">https://assets.bbhub.io/company/sites/60/2020/10/FINAL-TCFD-Annex-Amended-121517.pdf</a>

# Scenario Analysis

- 62. Scenario analysis requirements must be met by trustees "as far as they are able".

  More information about this is set out at Part 2, paragraphs 1 to 14.
- 63. This may mean that initially, for some schemes, not all asset classes can be included in the scenario analysis or that some assets will be assessed by a broader qualitative approach. Particular challenges relate to those asset classes mentioned in paragraph 2 of Part 2 above. It may be that in the case of relevant contracts of insurance, especially those which are not "collateralised", reference to the appropriate insurer's TCFD disclosures can be made.

#### Considerations for approaching scenario analysis

#### Quantitative or qualitative scenario analysis

- 64. The purpose of scenario analysis is to better understand the risks and opportunities posed by climate change to the scheme and to inform trustees' strategy and investment decisions accordingly. A scenario describes a path of development leading to a particular outcome. Scenarios are not intended to represent a full description of the future but rather to highlight central elements of a possible future and to draw attention to the key factors that will drive future developments. They are hypothetical constructs, not forecasts, predictions or sensitivity analyses.
- 65. Scenario analysis may be qualitative and/or quantitative. Trustees with no or limited experience of scenario analysis may find it easiest to start with qualitative analysis. Qualitative scenario analysis uses narratives to explore the implication of different possible climate impacts. At its most basic, trustees could start from the question "what if...?" and introduce potential climate-related risks, for example "what if policymakers introduced a high carbon price?".
- 66. Quantitative scenario analysis can produce more developed and rigorous outputs. Trustees of all schemes in scope should progress towards developing the sophistication of their scenario analysis and to using quantitative analysis, especially where they believe that climate change could pose significant risks to their scheme.
- 67. Trustees may wish to overlay their quantitative analysis with a qualitative narrative, for example by providing some wider context and explaining the impact of their findings. In line with the TCFD's Supplemental Guidance for Asset Owners, trustees may wish to provide a discussion of how climate-related scenarios are used, such as to inform investments in specific assets<sup>26</sup>. This can help with their own, and others', understanding.

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<sup>&</sup>lt;sup>26</sup> *Ibid*, page 35.

#### **Using third-party providers**

- 68. Trustees may wish to use the services of a third-party provider to do scenario analysis. A third-party provider may be able to help trustees apply an "off the shelf" scenario or to develop a bespoke one.
- 69. However, whether or not they use a third-party provider, trustees should ensure that they have an understanding of the scenarios that are used. This includes the underlying assumptions which make up the scenarios (for example, scenarios will be based on assumptions about variables such as the use of carbon capture and storage technologies, the timing of emissions reduction and the scope of policy interventions). If trustees do not understand these, it will be difficult for them to interpret and act on the outputs of the scenario appropriately.
- 70. The TCFD Technical Supplement on the use of Scenario Analysis in disclosure of climate-related risks and opportunities<sup>27</sup> sets out more details on common assumptions in scenario analysis.
- 71. Trustees should also consider whether they could gain more insight from undertaking a simpler form of scenario analysis in-house than out-sourcing it to a third-party. Trustees should keep in mind the purpose of scenario analysis. (see paragraph 64 above). They should not assume that this will be best achieved by using the most complex, sophisticated and/or expensive tools available.

#### Information from asset managers

72. Trustees may find it easiest to do a "top-down" analysis of the scheme-level risks to their scheme's aggregated portfolio. This may be easier than starting from information from asset managers about individual asset classes. It is also likely to be difficult for trustees to aggregate scenario analysis that has been done on different asset classes or by different managers for reasons such as different underlying assumptions.

#### Chosen scenarios

- 73. Trustees must, as far as they are able, conduct scenario analysis in at least two scenarios where there is an increase in the global average temperature and in one of those scenarios the global average temperature increase selected by the trustees must be within the range of 1.5°C above pre-industrial levels, to and including 2°C above pre-industrial levels. The temperature used in the scenario should be the "eventual" temperature increase within the chosen timeframe, on the assumption that the temperature would stabilise at this level and not continue increasing.
- 74. In selecting the scenario's they will use, trustees should consider not only the projected potential global average temperature rise, but also the nature of the transition to that temperature rise. For example, it is possible to have many different scenarios representing an eventual global average temperature rise of

<sup>&</sup>lt;sup>27</sup> https://assets.bbhub.io/company/sites/60/2020/10/FINAL-TCFD-Technical-Supplement-062917.pdf

2°C above pre-industrial levels because of differences in the assumptions made about the type of transition. Trustees may therefore want to consider a range of scenarios like the following:

- A measured, orderly transition takes place with climate policies being introduced early and becoming gradually more stringent. Ambitions under the Paris Agreement and commitments such as the UK's commitment to achieve net zero by 2050 are met in an orderly manner. This is likely to mean lower transition risks and less severe physical risks. (Such a scenario could be used for the required scenario of a temperature increase within the range of 1.5°C above pre-industrial levels, to and including 2°C above pre-industrial levels).
- A sudden, disorderly transition takes place with climate policies and wider action on climate change not happening until late (e.g. introduced around 2030). Although climate goals are met, transition risks are also more likely to materialise, given the need for sharper emissions reductions, alongside increased physical risks. (Such a scenario could be used for the required scenario of a temperature increase within the range of 1.5°C above pre-industrial levels, to and including 2°C above pre-industrial levels).
- A "hot house world" which assumes only currently implemented policies are preserved, current commitments are not met and emissions continue to rise. This would mean climate goals are missed and physical risks are high with accompanying severe social and economic disruption.
- 75. The Network for Greening the Financial System sets out representative scenarios in the above ranges which trustees may wish to reflect in their own scenario analysis<sup>28</sup>.
- 76. A list of reference scenarios can also be found at Annex 2 of the Climate Financial Risk Forum Guide to Scenario Analysis<sup>29</sup>.
- 77. Trustees should choose scenarios that reflect their reasoned assessment of plausible pathways and should not focus on scenarios that rely on progress, or otherwise, that they consider unlikely to happen. Trustees may wish to assess the impact of each scenario over the short, medium and long term horizons identified under their Strategy activities.
- 78. As with the Strategy activities, trustees should take account of anticipated changes in asset allocation over time when carrying out scenario analysis. For example, in the case of a recently closed DB scheme, the trustees should not assume either that the asset allocation will be the same in 30 years as it is now, or the effect of a climate scenario on an assumed "snapshot" asset allocation at a distant point in the future. Rather, they should seek, where possible, to consider

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https://www.ngfs.net/sites/default/files/medias/documents/820184 ngfs scenarios final version v6.p df

<sup>&</sup>lt;sup>29</sup> https://www.fca.org.uk/publication/corporate/climate-financial-risk-forum-guide-2020-scenario-analysis-chapter.pdf

- the impact of the temperature scenario on the assets as the allocation changes over time.
- 79. Physical risks are relevant in all scenarios that assume any global temperature increase. Trustees should therefore test the resilience of their investment strategy and, if they have one, their funding strategy against both transition and physical risks.
- 80. When selecting scenarios, trustees should seek to avoid selecting those which, although related to different eventual temperature increases, present similar trajectories over the relevant time horizons. For example, trustees of a scheme with a time horizon of 10 years should avoid using two scenarios that both assume 'business as usual' for the next decade before diverging.

#### Scenario analysis and the funding strategy

- 81. Assessing the resilience of the funding strategy includes consideration of the sponsoring employer's covenant. The covenant is an important source of support for many DB schemes. Trustees should use scenario analysis to better understand the potential impact on the covenant of the effects of climate change. Trustees may initially find it easiest to start with qualitative scenario analysis for the covenant. Trustees may wish to address questions such as:
  - What are the greatest risks posed to the sponsoring employer in our chosen scenarios / what if X happens?
  - What could the sponsoring employer do to address such a risk? Is the sponsoring employer taking action to avoid and/or address such a risk?

#### Liabilities

- 82. Trustees must, as far as they are able, assess the potential impact on the scheme's liabilities of the effects of the global average increase in temperature, and also of any steps which might be taken because of the temperature increase by governments or otherwise in their chosen scenarios. This may include considering the impact on:
  - Financial assumptions based on market yields / assumed market values that may be mispriced if they do not take account of climate change.
  - Investment return assumptions based on models that extrapolate past trends and so implicitly ignore the possible future impact of climate change.
  - Mortality rates, which may be impacted by environmental factors such as air pollution, changes in temperatures and extreme weather events and economic factors such as financial well-being and access to healthcare.
- 83. This is a developing area of work and trustees and their advisers may not always be able to reach robust conclusions on which they are able to act. However, trustees should still seek to understand the potential impact of the effects of climate change on their liabilities.

#### **Annual review**

- 84. Scenario analysis must be undertaken in the first scheme year during which trustees are subject to the requirements in the Regulations— even if the first year of application is a part year and in every third scheme year thereafter. However, this timescale is reset if trustees decide to undertake scenario analysis before that third scheme year.
- 85. If the first year in respect of which the requirements apply is a part scheme year, scenario analysis undertaken in that scheme year, but before the date from which the requirements apply to the trustees, may still be relied upon to meet the requirements.
- 86. Provided the TCFD report is produced and published in accordance with the Regulations within 7 months of the end of the scheme year, the drafting of the TCFD report can take place after the end of the scheme year.
- 87. Trustees must always describe their most recent scenario analysis in their TCFD report, but may also choose to describe previous scenario analysis where that scenario analysis remains relevant.
- 88. In the scheme years where trustees are not required to undertake scenario analysis, they must review their most recent scenario analysis and determine whether they should nevertheless undertake new scenario analysis in order to have an up-to-date understanding of the matters they are required by the Regulations to consider.
- 89. Circumstances which are likely to lead trustees to decide that new scenario analysis should be undertaken in a scheme year where it is not mandatory include, but are not limited to:
  - A material increase in the availability of data. This is likely to happen as
     TCFD reporting increases across the investment chain, bringing with it more
     data for different asset classes and for sponsoring employers' businesses.
     This is likely to happen rapidly in the first few years after the Climate Change
     Governance and Reporting Regulations are in force.
  - A significant/material change to the investment and/or funding strategy or some other material change in the scheme's position.
- 90. Trustees may wish to consider undertaking new scenario analysis in the following circumstances, if they think it is appropriate to do so:
  - The availability of new or improved scenarios or modelling capabilities (for example 1.5°C scenarios) or events that might reasonably be thought to impact key assumptions underlying scenarios (for example, more countries making net zero commitments).
  - A change in industry practice/trends on scenario analysis. This may
    include increased popularity of particular types of scenarios or widespread
    use of particular temperature outcomes to use for a "business as usual"
    scenario.

91. If trustees decide not to undertake new scenario analysis, they must explain in their TCFD report the reasons for their decision. If they do not carry out new scenario analysis, they must also include the results of the most recent scenario analysis in their latest TCFD report, as set out below.

#### Disclosure of Strategy and scenario analysis information

- 92. Trustees must describe in their TCFD report:
  - the time periods which the trustees have determined should comprise the short term, medium term and long term;
  - the climate-related risks and opportunities relevant to the scheme over the time periods that the trustees have identified and the impact of these on the scheme's investment strategy and, where the scheme has a funding strategy, the funding strategy;
  - the most recent scenarios the trustees have used in their scenario analysis;
  - the potential impacts on the scheme's assets and liabilities which the trustees
    have identified in those scenarios and, if the trustees have not been able to
    obtain data to identify the potential impacts for all of the assets of the scheme,
    why this is the case;
  - the resilience of the scheme's investment strategy and, where the scheme
    has a funding strategy, the funding strategy, in the most recent scenarios the
    trustees have analysed; and
  - where trustees have concluded that it is not necessary to undertake new scenario analysis outside the mandatory cycle, the reasons for this determination.
- 93. Trustees should also describe in their TCFD report:
  - their reasons for choosing the scenarios they have used; and
  - the key assumptions for the scenarios used and the key limitations of the modelling (for example, material simplifications or known under/over estimations); and
  - any issues with the data or its analysis which have limited the comprehensiveness of their assessment (see section on "as far as they are able" at Part 2, paragraphs 1 to 11 above).
- 94. Trustees may include information in their TCFD report on any other aspects of the assessment of their investment strategy and, if they have one, funding strategy and scenario analysis that they consider would be helpful to disclose.

# **Risk Management**

95. Risk management is of fundamental importance to effective governance around the potential implications of climate change and disclosure in line with the TCFD

recommendations. Climate-related risk presents unique challenges and requires a strategic approach to risk management. Trustees must establish and maintain processes for the purpose of enabling them to identify, assess and manage climate-related risks which are relevant to the scheme, and must ensure that their overall risk management integrates these processes.

- 96. This means having adequate processes for the management of all risks to which the scheme is exposed, including climate-related risks. Trustees must identify, assess and manage the transitional risks to their investments that the pursuit of a lower carbon economy will bring, as well as the physical risks to their assets brought about by the changes in our climate which are already taking place. Risks to liabilities and employer covenants are further risks trustees must consider where these are relevant to the investment strategy or funding strategy.
- 97. Good risk management is a key characteristic of a well-run scheme and an important part of the trustee's role in protecting members' benefits. An adequate risk management system will help trustees to keep scheme assets safe and protect the scheme from risks, as far as that is appropriate. Trustees are best placed to decide what risk management process to use, but should be asking:
  - "Which climate change risks are most material to the scheme?"
  - "How do we take account of transition and physical risks in our wider risk management?"
  - "How does climate change affect our risk appetite?"

# Processes for identifying and assessing climate-related risk

- 98. Trustees must establish and maintain processes for the purpose of enabling them to identify and assess climate-related risks which are relevant to the scheme. A scheme's existing processes may warrant adjustment to ensure they sufficiently address the unique characteristics of climate-related risks.
- 99. Transitioning to a lower-carbon economy may entail extensive policy, legal, technology, and market changes to address mitigation and adaptation requirements related to climate change. Depending on the nature, speed, and focus of these changes, transition risks may pose varying levels of financial and reputational risk to schemes.

#### Climate-related risk types

The TCFD recommendations divide climate-related risks into two major categories:

#### Transition Risks

This category includes policy, legal, technology, market and reputation risk factors. Descriptions of these transition risks can be found in the TCFD's guidance on Risk Management, alongside approaches for managing those risks and possible metrics for measuring risk.<sup>30</sup>

#### Physical Risks

Physical risks from climate change can be event driven (acute) or longer-term shifts (chronic) in climate patterns, and include risks such as a rise in sea levels, with impacts including flooding, and the destruction of biodiversity.

These physical risks will have financial implications for schemes, such as direct damage to assets and indirect destabilising impacts from supply chain disruption. Other potential impacts of physical changes in the climate are wider economic and social disruption, including mass displacement, environmental-driven migration and social strife.

- 100. Trustees may rely on other persons, including advisers, asset managers and the sponsoring employer's management teams, to help them identify and assess climate-related risks. However, trustees have overall responsibility for the management of these risks and also of the opportunities arising from climate change. Possible approaches to identifying and assessing transition risks and physical risks involve the trustees, or others acting on their behalf:
  - Identifying climate-related regulatory developments that may impact scheme investments.
  - Assessing the potential for new and emerging technologies to offer opportunities and to supersede legacy technologies.
  - Identifying relationships between news or events and business and financial impacts to manage reputational risks to the scheme or its investments.
  - Engaging with service providers to compare the scheme's position to peers or competitors.
  - Considering the impact of physical risk factors such as physical damage and disruption to outsourcing arrangements and supply chains – for key parts of the scheme's portfolio.
  - Given the long-term nature of climate risk extending their consideration to longer time horizons.

<sup>&</sup>lt;sup>30</sup> "Table D2: Transition Risks and Identification and Assessment Approaches" p13, https://assets.bbhub.io/company/sites/60/2020/09/2020-TCFD Guidance-Risk-Management-Integration-and-Disclosure.pdf

- 101. The trustees' assessment of climate-related risks is fundamental to their prioritisation of those risks, and the management of those which pose the most significant potential for loss and that are most likely to occur.
- 102. Trustees may use a traditional "likelihood and impact" approach to gauge the severity or materiality of their risks. Given some of the unique characteristics of climate-related risks, trustees may expand their prioritisation criteria to include "vulnerability" and "speed of onset".
  - Vulnerability refers to the susceptibility of a scheme to a risk event, in terms of its preparedness, agility, and adaptability.
  - Speed of onset is the time that elapses between the occurrence of an event and the point at which the scheme feels its effect. Knowing the speed of onset can help trustees develop risk response plans.
- 103. The processes for assessing risks to assets should be applied at the asset-class or key sector level as a minimum. Trustees may consider undertaking more granular risk appraisal to identify trends in risk. This may include, for example, consideration of the potential for a breakdown of longer-term average correlations between asset classes, particularly where climate change impacts accelerate and worsen, or where policy reaction is swifter and more substantial than currently priced in by the markets. Processes to assess risk should also be applied in relation to liabilities and the employer covenant. These considerations may potentially influence the time horizons selected.
- 104. As outlined in TPR's Integrated Risk Management (IRM)<sup>31</sup> guidance, risk identification should not be a one-off exercise. Further, TPR recommends that, as a minimum, trustees should consider conducting high level risk monitoring at least once a year. Trustees should increase the frequency of monitoring if risk levels approach pre-determined risk appetites.

#### Processes for managing climate-related risk

- 105. Trustees must ensure they have processes in place for the purpose of enabling them to manage effectively climate-related risks which are relevant to the scheme. Trustees should consider whether new risk management tools are needed to support management of climate-related risks or whether existing tools can be adjusted to reflect the unique characteristics of these risks.
- 106. Trustees should consider the time horizon over which risks are traditionally identified and assessed and whether that time horizon is sufficiently long-term to take account of the timescale over which climate-related risks need to be considered (see paragraphs 43 to 46), or whether it should be extended. It is not necessary to extend the timescale beyond the time horizon over which current members' benefits will be paid (for DB), or for which current members' monies will be invested (for DC).

34

<sup>&</sup>lt;sup>31</sup> https://www.thepensionsregulator.gov.uk/en/document-library/regulatory-guidance/integrated-risk-management

#### Integration of climate-related risk

- 107. Whatever climate-related risks are financially material to the pension scheme, trustees must embed management of these into the scheme's wider risk-monitoring and management processes. There are four key principles trustees should consider:
  - **Interconnections**: Integrating climate-related risks into the scheme's existing risk management framework requires analysis and collaboration amongst those undertaking governance activities and, if relevant, with asset managers, investment consultants and DB funding and covenant advisers.
  - Temporal orientation: Climate-related physical and transition risks should be analysed across short, medium, and long-term time frames for operational and strategic planning. Analysis of physical risks, in particular, may require extension beyond traditional planning horizons.
  - Proportionality: The integration of climate-related risks into existing risk
    management processes should be proportionate to the scheme's other risks,
    the materiality of its exposure to climate-related risks, and the implications for
    the scheme's investment and funding strategies.
  - **Consistency**: The methodology used to integrate climate-related risks should be used consistently within a scheme's risk management process to support clarity on analysis of developments and drivers of change over time.
- 108. Trustees should ensure that they, and those they engage to advise or assist with governance and risk management, have a general understanding of climate change concepts and the potential impacts of climate change.
- 109. The trustees should understand how risk management and strategic planning tie together and it may be helpful for trustees to review key governance, strategy setting, and risk management processes.
- 110. The trustees should incorporate climate-related risks into the existing risk management framework and risk inventory used by the scheme. This includes mapping climate-related risks into existing risk categories and types. Trustees should determine whether such risks will be treated as stand-alone risks, crosscutting drivers of existing risks, or a combination of both and then appropriately incorporate risks into the scheme's risk management framework. The risk categories should include financial, operational and strategic risks however, most schemes have additional risk categories as well.
- 111. Climate-related risks are systemic and could have consequences for the whole financial system (including sudden asset shocks and financial system impacts that are difficult to hedge) and cannot necessarily be diversified away through asset allocation decisions alone, including blanket divestment. Trustees should therefore consider in their approaches to risk management activities such as stewardship which could help to reduce the impact on their scheme of a disorderly transition, or of a shock to the financial system from catastrophic climate change.

## Disclosure of risk management processes

- 112. The primary purpose of requiring disclosure of risk management processes is to provide context for **how** the trustees think about and address the most significant risks to their efforts to achieve appropriate outcomes for members.
- 113. Trustees must describe in their TCFD report the processes they have established for identifying, assessing and managing climate-related risks in relation to the scheme, and how the processes are integrated within the trustees' overall risk management of the scheme.
- 114. The report should also include concise information on the following:
  - the risk tools the trustees used and the outputs / outcomes of using those particular tools;
  - how the trustees have identified, assessed and managed both transition and physical risks for the scheme; and
  - how the trustees' assessment of climate-related risks has impacted the scheme's prioritisation and management of risks which pose the most significant potential for loss and are most likely to occur.
- 115. Trustees should include information on how, if at all, they have used stewardship to help manage climate-related risks to the scheme. The TCFD provides brief supplemental guidance on engagement activity and risk<sup>32</sup>.
- 116. Disclosing information about how climate-related opportunities are identified, assessed and managed is encouraged as this will add further insights for members and others into the scheme's overall approach to climate-related risk.

## **Metrics**

- 117. For trustees, metrics can help to inform their understanding and monitoring of their scheme's climate-related risks and opportunities. Quantitative measures of the scheme's climate-related risks and opportunities, in the form of both emissions, portfolio alignment and non-emissions-based metrics, should help trustees to identify, manage and track their scheme's exposure to the financial risks and opportunities climate change poses.
  - 118. Trustees must select and report on a minimum of one absolute emissions metric, one emissions intensity metric, one portfolio alignment metric and one additional climate change metric<sup>33</sup>, and must review their metric selections from time to time as appropriate to the scheme. Where, following a review, trustees determine that a selected metric should be replaced, they must select a

<sup>&</sup>lt;sup>32</sup> Page 35, <a href="https://assets.bbhub.io/company/sites/60/2020/10/FINAL-TCFD-Annex-Amended-121517.pdf">https://assets.bbhub.io/company/sites/60/2020/10/FINAL-TCFD-Annex-Amended-121517.pdf</a>

<sup>&</sup>lt;sup>33</sup> As defined in paragraph 26 of the Schedule to the Climate Change Governance and Reporting Regulations.

- replacement metric of the same type. For the additional climate change metric trustees may select a replacement metric of a different nature to their previous additional climate change metric for example climate value at risk (VaR) to replace data quality.
- 119. In their use of metrics to "identify and assess the climate-related risks and opportunities which are relevant to the scheme", trustees should however recognise that climate risks are systemic and cannot necessarily be divested or diversified away through asset allocation decisions alone, including blanket divestment.
- 120. Metrics should be calculated, as far as trustees are able, for each popular DC arrangement and for all DB sections (see Part 2, paragraphs 19 to 25 of this Guidance). However, different metrics may be selected for different parts of the portfolio for example for different asset classes or different sections of the scheme.

## **Emissions metrics**

### Which emissions?

- 121. Trustees must obtain, as far as they are able, the Scope 1, Scope 2 and Scope 3 GHG emissions for the scheme's assets<sup>34</sup> that is, the pension scheme's financed emissions. These are the emissions referred to as category 15 (investment emissions) in the GHG Protocol Technical guidance <sup>35</sup> Trustees are not required to obtain Scope 3 emissions in the first scheme year during which they are subject to the requirements in the Regulations.
- 122. The emissions measured are the seven gases mandated under the Kyoto Protocol, converted to and expressed as carbon dioxide equivalents (CO2e).
- 123. Trustees are not required to obtain or disclose the Scope 1 and Scope 2 emissions of the scheme's operations for example, the emissions caused by heating or lighting in offices. Neither are they required to obtain or disclose Scope 3 emissions of the scheme other than category 15 "investment emissions". For example, they do not need to obtain or disclose emissions relating to travel by the trustees or others undertaking governance activities on their behalf or assisting with, or advising on, governance activities.

<sup>&</sup>lt;sup>34</sup> https://ghgprotocol.org/scope-3-technical-calculation-guidance

<sup>3</sup> 

<sup>&</sup>lt;sup>35</sup> *Ibid.* This Statutory Guidance takes precedence over the GHG Protocol methodology where the two conflict. In particular – in contrast to Category 15 of the GHG Protocol Scope 3 calculation guidance – Scope 3 emissions should be calculated from the second scheme year onwards irrespective of any judgement of their significance; emissions from general corporate purposes debt investments should be calculated; and no equity share threshold should be used below which emissions of the assets are not reported.

#### Calculation and attribution of the emissions

- 124. An internally consistent methodology should be used wherever possible when trustees undertake steps to calculate metrics for example, when they aggregate fund level emissions data provided by their asset managers or third-party data providers.
- 125. In measuring the pension scheme's "share" of the emissions of a given asset, trustees should, wherever it is meaningful to do so, attribute the emissions of the underlying assets according to the trustees' investment (their equity, or the outstanding value of their loan) divided by a measure of the total equity and debt. For listed and unlisted equities and for corporate bonds, the Enterprise Value Including Cash (EVIC)<sup>36</sup> may be used as a measure of the total equity and debt. In line with guidance published by the Partnership for Carbon Accounting Financials (PCAF)<sup>37</sup> the operational or financial control approach should be used to attribute emissions to allow for aggregation and comparability across asset classes and funds and between schemes, The operational or financial control approach should be used to ensure that emissions attributable to equity investments of the scheme are not misclassified as operational emissions of the trustees.<sup>38</sup>
- 126. For **real estate or infrastructure**, the value of the asset on a mark-to-market accounting basis or the value at origination may be used as the denominator.
- 127. For **sovereign bonds**, the issuer does not have a readily available EVIC measure. Trustees may instead normalise a production-based measure of total national emissions using total Government debt<sup>39</sup>. This approach may be more suitable when trustees are using Carbon Footprint as an emissions intensity measure. Alternatively they may normalise by GDP<sup>40</sup> this may be more appropriate for schemes using a revenue-based Weighted Average Carbon Intensity (WACI) measure (see paragraphs 143 to 147 below)<sup>41</sup>. Trustees should state which approach they have taken. They are free to use other methodologies, but they should explain any alternative methodology used, as

<sup>&</sup>lt;sup>36</sup> EVIC is the sum of the market capitalisation of ordinary shares at fiscal year end, the market capitalisation of preferred shares at fiscal year-end, and the book values of total debt and minorities' interests. No deductions of cash or cash equivalents are made to avoid the possibility of negative enterprise values.

<sup>&</sup>lt;sup>37</sup> https://carbonaccountingfinancials.com/standard

<sup>&</sup>lt;sup>38</sup> See Box 4 of the Global GHG Accounting and Reporting Standard for the Financial Industry <a href="https://carbonaccountingfinancials.com/standard-pp36-37">https://carbonaccountingfinancials.com/standard-pp36-37</a>

<sup>&</sup>lt;sup>39</sup> UK public sector net debt (excluding public sector banks) is available from https://www.ons.gov.uk/economy/governmentpublicsectorandtaxes/publicsectorfinance

<sup>&</sup>lt;sup>40</sup> UK production-based emissions are available from https://www.gov.uk/government/collections/final-uk-greenhouse-gas-emissions-national-statistics
UK GDP data (Gross Domestic Product: chained volume measures: Seasonally adjusted) is available from: https://www.ons.gov.uk/economy/grossdomesticproductgdp

<sup>&</sup>lt;sup>41</sup> As per footnote 40.

- well as providing a justification for their choice. As the methodology for attribution of emissions from sovereign bonds differs from that for other asset classes, trustees should generally record their emissions separately see paragraph 163 below.
- 128. Trustees may treat the requirement to obtain Scope 1 and Scope 2 emissions of a sovereign issuer as referring to the production-based emissions of the jurisdiction, and the requirement to obtain Scope 3 emissions of a sovereign issuer as referring to the emissions embodied in goods and services imported by the jurisdiction. It is recognised that trustees may not be able to readily calculate these imported emissions at the current time for jurisdictions other than the UK<sup>42</sup>.
- 129. To avoid double counting of emissions reductions, the emissions of **green bonds** should be treated in the same way as other bonds from the same issuer, unless trustees can provide a reasoned explanation for a different approach. However, trustees may also quote avoided emissions see paragraph 134.
- 130. For collateralised buy-in contracts, the emissions of the assets designated to ensure the insurer can meet their liabilities under the contract should be used. Where possible the emissions of these assets should be calculated in line with this Guidance. For other buy-in contracts, trustees should use insurer emissions data. Where data is available, they should take a proportionate share of the emissions of the insurer's total assets backing their UK pension bulk annuity book. Where it is not, they may use the emissions in relation to all the insurer's assets.
- 131. Where trustees are able to calculate the emissions of **derivatives**, they may do so according to the following principles:
  - with "look through" taking place to the emissions of the underlying assets, where these are identifiable:
  - with the notional value of derivative investments (the total value of the leveraged position's market exposure) should be used to measure GHG emissions, rather than the value of derivatives positions shown on accounting statements:
  - with the emissions associated with derivatives reported separately from those
    of other assets to distinguish "real" and "synthetic" exposures. The emissions
    attributable to short derivative positions should be reported separately from
    those attributable to long derivative positions.
- 132. Whilst methodologies are not available for interest rate swaps at the present time, trustees may choose to make use of published worked examples for

<sup>&</sup>lt;sup>42</sup> UK imported emissions data is available from <a href="https://www.gov.uk/government/statistics/uks-carbon-footprint">https://www.gov.uk/government/statistics/uks-carbon-footprint</a>

- futures and forwards, credit default swaps and call or put options<sup>43</sup>. However, it is not expected that trustees would be able to readily calculate emissions associated with derivatives at the current time.
- 133. Trustees may use the Global GHG Accounting and Reporting Standard developed by the Partnership for Carbon Accounting Financials (PCAF) for the attribution of emissions for other asset classes for which a methodology is available.
- 134. There is no expectation that trustees should calculate emissions removed or avoided. Where trustees choose to report avoided or removed emissions for green bonds, they should calculate and report these by reference to the International Capital Markets Assumptions handbook on the harmonised framework for impact reporting<sup>44</sup>. Trustees should report all avoided or removed emissions including any offsets separately, rather than deducting them from the emissions of the assets.
- 135. Trustees are not expected to calculate projected lifetime emissions of projects for which they are an initial sponsor or lender, in the year that they were financed. If these emissions are included in the TCFD report they should be set out separately.

### Timing of the data

- 136. Trustees must, during each scheme year for which the regulations apply including the first scheme year and any first scheme year of re-application<sup>45</sup> obtain the data, use it to calculate each selected metric, and use the metric they have calculated to identify and assess the climate-related risks and opportunities which are relevant to the scheme. Trustees are required to meet these requirements "as far as they are able". They should seek to obtain the most recently available greenhouse gas emissions for the holdings which made up their portfolio on a given date.
- 137. Recognising that company reporting years have different year end dates, and that there is often a lag between financial reporting deadlines and the required data becoming available, trustees should use the most recent data available, even if the data used relates to different years. For example, trustees reporting on emissions in the 2022 financial year will likely need to rely on some disclosures from 2021 and earlier.

https://www.researchgate.net/publication/303938941 How to Account for Greenhouse Gas GHG Emissions of Derivatives

<sup>&</sup>lt;sup>43</sup> See, for example

<sup>44 &</sup>lt;a href="https://www.icmagroup.org/sustainable-finance/impact-reporting/">https://www.icmagroup.org/sustainable-finance/impact-reporting/</a>

<sup>&</sup>lt;sup>45</sup> As defined in paragraph 26 of the Schedule to the Climate Change Governance and Reporting Regulations.

#### Recommended absolute emissions metric: Total GHG emissions

- 138. Trustees should use total greenhouse gas (GHG) emissions as their absolute emissions metric.
- 139. Trustees should seek to calculate the total GHG Emissions for each DB section and each popular DC arrangement in the scheme as set out in Part 2, paragraphs 19 to 25.

## Recommended emissions intensity metric: Carbon Footprint

- 140. Whilst total GHG emissions are more effective in communicating contribution to climate change, they are difficult to translate into exposure to risk. A larger scheme may have higher total emissions but be less exposed to climate change risk than a smaller scheme.
- 141. Trustees should use Carbon Footprint as their emissions intensity metric.

  Carbon Footprint is an intensity measure of emissions that takes the Total GHG

  Emissions figure and weights it to take account of the size of the investment
  made.
- 142. Trustees should report the emissions in tonnes of GHG emissions for each million (£m) of the scheme's assets for which they are reporting that is, the total carbon emissions of the portfolio, or part-portfolio, divided by the current value of the portfolio or part-portfolio for which emissions data is available. This should assist trustees in identifying carbon-intense sections of their portfolio that they can prioritise for strategic re-allocation or engagement, to mitigate associated climate-related risks.

$$\frac{\sum_{n}^{i} \left( \frac{\textit{current value of investment in entity}_{i}}{\textit{Entity's Enterprise Value including cash}^{*}} \times \textit{entity's GHG emissions} \right)}{\textit{current portfolio value (£m)}}$$

143. Trustees should seek to calculate the Carbon Footprint for each DB section and popular DC arrangement in the scheme as set out in Part 2, paragraphs 19 to 25.

### Optional emissions intensity metric: Weighted Average Carbon Intensity

- 144. Trustees are only required to calculate one emissions intensity metric. However, they may if they wish to, additionally report the Weighted Average Carbon Intensity (WACI) (in tCO2e / £m) of their portfolio. Alternatively, they may calculate and report WACI in place of Carbon Footprint, but they should explain their reasoning.
- 145. WACI measures the portfolio's exposure to carbon-intensive companies with attribution of emissions based on their weightings in the portfolio or part-portfolio for which data is available, rather than the ownership approach.
- 146. One example of a formula used to calculate the WACI is shown below:

<sup>\*</sup> Other denominators may be used for some asset classes – e.g. GDP for sovereign bonds.

$$\sum_{n}^{i} \left( \frac{current \ value \ of \ investment \ in \ entity_{i}}{current \ portfolio \ value} \times \frac{entity's \ GHG \ emissions}{normalisation \ factor} \right)$$

- 147. As a normalisation factor, trustees may use the entity's enterprise value including cash, its revenue, or another factor. Asset class-specific normalisation factors may also be selected for part of the portfolio for example Gross Domestic Product for sovereign bonds.
- 148. Trustees may seek to calculate the WACI for each DB section and popular DC arrangement in the scheme as set out in Part 2, paragraphs 19 to 25.

## Data gaps - Populating missing data

- 149. To support the effectiveness of the "as far as they are able" approach, trustees must explain any missing data that does not allow them to calculate the metrics for all of the assets set out in Part 2, paragraphs 19 to 25. The "as far as they are able" requirement is explained in Part 2, paragraphs 1 to 14.
- 150. This is key in understanding the level of completeness any results represent, and any possible inaccuracies that might occur as a result of estimation. Furthermore, it highlights to the authorities and industry the data issues and gaps that exist.
- 151. In all cases, trustees should use the best available data that can be obtained at proportionate cost. Typically, data can be ranked from highest to lowest quality as follows<sup>46</sup>:
  - HIGHEST
  - Verified reported emissions
  - Unverified reported emissions
  - Estimates based on the investments' energy consumption or product output and emissions per unit of output or product.
  - Estimates based on the emissions per unit of revenue typical to that sector

sources of data or modelling to fill the gaps which in the trustees' view are likely

LOWEST

152. Where there are significant gaps, trustees should seek alternate third-party

Standard.

to be most material. A wide range of data sources are available offering emissions factors per unit of product or per unit of economic activity<sup>47</sup>.

<sup>&</sup>lt;sup>47</sup> Some example data sources are EXIOBASE, Global Trade Analysis Project (GTAP) and World Input-Output Database (WIOD).

- 153. Trustees should however bear in mind that the requirements to obtain data and calculate metrics must be met "as far as they are able" and should therefore carefully consider the costs of using third-party providers.
- 154. Trustees should obtain details from their asset managers or third-party data providers of the proportion of assets for which Scope 1 to 2 (and from the second scheme year onwards, Scope 3) emissions are available, and the proportion for which there is no data.
- 155. When aggregating emissions data, trustees should not assume any emissions for which neither reported nor estimated data is available to be zero. Instead trustees should calculate and subsequently report their metrics on the proportion of the portfolio for which they have reported or estimated data.

## **Portfolio Alignment Metrics**

## The Paris Agreement and Net Zero

- 156. The Paris Agreement is a legally binding international treaty on climate change. It was adopted by 196 Parties, on 12 December 2015. It aims to strengthen the global response to the threat of climate change by 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.
- 157. According to the IPCC<sup>48</sup>, in order to keep warming to 1.5°C, emissions must reach "net-zero" by 2050. The "net" in net-zero means that the amount of greenhouse gases released into the atmosphere must not exceed the amount that is removed from the atmosphere. In practice, this will mean that any residual emissions from hard-to-abate industries must be removed from the atmosphere through technology or nature-based solutions.

#### **Portfolio Alignment**

- 158. A portfolio alignment metric means a metric which gives the alignment of the scheme's assets with the climate change goal of limiting the increase in the global average temperature to 1.5°C above pre-industrial levels.
- 159. Portfolio alignment metrics are forward-looking metrics that can provide an indication of the exposure of a scheme to climate-related transition risks and opportunities. They can be applied to a wide range of industries, sectors, and asset classes.

#### Which portfolio alignment metrics?

Trustees should calculate, "as far as they are able", and report one of the 3 types of portfolio alignment metric listed below in respect of the assets of their scheme:

<sup>&</sup>lt;sup>48</sup> IPCCC Special Report on Global Warming of 1.5°C

- Binary target measurements This tool measures the alignment of a
  portfolio with a given climate outcome, based on the percentage of
  investments in that portfolio with declared net zero or Paris-aligned targets.
   Science Based Targets initiative (SBTi)'s Portfolio Coverage Tool for Financial
  Institutions is an open source example of this type of tool.
- Benchmark performance models These tools assess portfolio alignment by comparing the performance of investments in the portfolio against one or more benchmarks based on climate scenarios. These can be referred to as "benchmark divergence" measures. Transition Pathway Initiative (TPI)'s carbon performance scores and Paris Agreement Capital Transition Assessment (PACTA) are examples of open source tools which can be used for this purpose.
- Implied temperature rise (ITR) models These tools translate an
  assessment of alignment/misalignment with a benchmark into a measure of
  the consequences of that alignment/misalignment in the form of a temperature
  score. SBTi's Temperature Scoring Tool for Financial Institutions is an open
  source example of this type of tool.
- 160. Trustees should ensure they understand the basic methodological decisions and assumptions that will affect the results of portfolio alignment metrics. For example, for binary metrics, percentage scores will be dependent on the stringency of the targets against which companies are measured.
- 161. Trustees should choose a tool which includes consideration of Scope 3 emissions for sectors where these are significant<sup>49</sup>.
- 162. Trustees may choose to go beyond the approach set out in Part 2, paragraphs 20 to 23 of this Guidance and analyse and report their selected portfolio alignment metric by asset class, sector or geography. Where they take this approach, trustees should also report the percentage of the portfolio as a whole that falls within each category. For example, in reporting on the extent to which their listed equities are aligned with a net zero target, they should also disclose the percentage of their portfolio invested in these equities.
- 163. In the interest of consistency, trustees should endeavour to use the same portfolio alignment metrics (calculated using the same methodology and assumptions) across their portfolio where possible. If this is not possible, or where there is a good reason for diverging from this principle, trustees should choose to measure and report different portfolio alignment metrics for different asset classes, sectors or geographies. Trustees should explain the approach taken, and their reasoning in their TCFD report.

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<sup>&</sup>lt;sup>49</sup> This is subject to paragraph 19 of the Schedule to the Climate Change Governance and Reporting Regulations, which provides that in the first scheme year in respect of which the requirements of Part 1 of the Schedule apply, trustees are not required to obtain the Scope 3 emissions attributable to the scheme's assets.

- 164. Trustees should not aggregate fund level portfolio alignment data provided by their asset managers or third-party data providers unless a consistent methodology has been used.
- 165. **For sovereign bonds**, trustees should measure and report on alignment by reference to the issuer's net zero, or other emissions reduction, target.
- 166. Trustees should treat **corporate and sovereign green bonds** in the same way as other bonds from the same issuer, unless trustees can provide a reasoned explanation for a different approach.
- 167. For **collateralised buy-in contracts**, the alignment of the assets designated to ensure the insurer can meet their liabilities under the contract should be used. For **other buy-in contracts**, trustees should use the insurer's calculation of the alignment of the assets backing their UK pensions bulk annuity book or, where this data is not available, use the insurer's net zero target.
- 168. Where trustees have gained synthetic exposure to a particular market index through a **derivative** instrument for example a synthetic Exchange-Traded Fund (ETF), they should "look through" to the alignment of the underlying assets.
- 169. It is recognised that there will be challenges for trustees calculating portfolio alignment metrics for derivatives at the current time and, likewise, for **real estate or infrastructure** assets. However, trustees may wish to use the Carbon Risk Real Estate Monitor tool (CRREM)<sup>50</sup> to assess the net zero alignment of their real estate holdings.

#### Data gaps - Populating missing data

- 170. Trustees may be able to use the portfolio alignment metrics reported by their asset managers, which it is anticipated will go some way to populating data gaps. Where there are gaps in this reporting, trustees may choose to seek alternative third-party sources of data or portfolio alignment tools to fill the gaps which in the trustees' view are likely to be most material.
- 171. It is not meaningful for trustees to try to measure alignment for sections of the portfolio they do not have data for. Where issuers have not disclosed carbon reduction targets, trustees should report on the basis of business as usual.
- 172. To support the effectiveness of the "as far as they are able" approach, trustees must explain why there is any missing data that does not allow them to calculate a portfolio alignment metric for all of the assets of their scheme as set out in Part 2, paragraphs 19 to 25 of this Guidance.

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<sup>&</sup>lt;sup>50</sup> The CRREM tool is currently the recommended methodology for assessing the net zero alignment of real estate holdings under <u>'The Paris Aligned Investment Initiative - Net Zero Investment</u> Framework'.

## **Additional Climate Change Metrics**

- 173. Trustees must also select and report on a minimum of one additional climate change metric.
- 174. Trustees should select one or more of the following additional climate change metrics. They may select an alternative additional climate change metric to those listed, but they should explain why they have done so in their TCFD report.
  - Climate value at risk (VaR) this measure aims to measure the size of the loss attributable to climate-related risks a portfolio may experience, within a given time horizon, if a particular scenario unfolds<sup>51</sup>.
  - Data quality this measure aims to represent the proportions of the portfolio
    for which the trustees have high quality data. Trustees should calculate the
    proportion of the portfolio for which each of Scope 1 to 2 emissions (and from
    the second scheme year onwards Scope 3) emissions are verified, reported,
    estimated or unavailable. For the portion of the portfolio in the "estimated"
    category, trustees may also calculate the proportions estimated to different
    degrees of certainty.
  - Proportion of assets materially exposed to climate-related physical risks, based on key categories of commonly accepted risks<sup>52</sup> this measure aims to analyse, assess and estimate the potential proportion of assets with material exposure to climate-related physical risks, such as stranding of assets or reduction in value due to economic disruption or weather-related damage (which is particularly relevant for property assets). The proportion of assets vulnerable to climate-related physical risks will be specific to the geography where these are located and their likely exposure to the risk.
  - Proportion of assets materially exposed to climate-related transition risks, based on key categories of commonly accepted risks<sup>53</sup> - this measure aims to analyse, assess and estimate potential proportion of assets or financial activities exposure to climate-related transitional risks, such as change in demand for products or services (which is particularly relevant for fossil fuel related assets). The proportion of assets vulnerable to climate-

<sup>&</sup>lt;sup>51</sup> Task Force on Climate-related Financial Disclosures: Forward-Looking Financial Sector Metrics Consultation <a href="https://www.fsb.org/wp-content/uploads/P291020-4.pdf">https://www.fsb.org/wp-content/uploads/P291020-4.pdf</a> - this consultation, also explores the use of implied temperature rise, one type of portfolio alignment metric. Others are the percentage of the portfolio with net zero targets, and the deviation of the portfolio from a target or benchmark.

<sup>&</sup>lt;sup>52</sup> Table 1 (p. 10) of the 2017 TCFD Final Report and Tables D2 and D3 (pp. 13 to14) of the 2020 Guidance on Risk Management Integration and Disclosure provide examples of "key categories of commonly accepted risk." Assets and business activities may be directly or indirectly exposed."

<sup>53</sup> See footnote 52

- related transition risks will be specific to company and industry-specific climate risks.
- Proportion of assets aligned toward climate-related opportunities, based on key categories of commonly accepted opportunities<sup>54</sup> this measure aims to provide insight into the proportion of assets aligned to climate-related opportunities for the relevant industry. Existing frameworks already provide some specific sector guidance for this. For example, SASB's Construction Material Standard asks companies to report the percentage of products that qualify for credits in sustainable building design.
- Amount of expenditure or capital investment deployed toward climate risks and opportunities – this measure aims to provide an indication of the extent to which the companies in which the portfolio invests are investing in the technologies, infrastructure or products needed to manage climate-related risks and opportunities.

## **Disclosure of metrics**

- 175. Trustees must describe in their TCFD report the metrics which they have calculated absolute emissions metric, emissions intensity metric, portfolio alignment metric and an additional climate change metric. If they have been unable to obtain data to calculate the metrics for all of the assets of their scheme, they must explain why this is the case.
- 176. When disclosing their portfolio alignment metric trustees should describe the key components of the methodology for example, key judgements, assumptions, data inputs and where relevant how the chosen methodology accounts for data gaps) used to calculate their chosen metric.
- 177. If the trustees have chosen to use a metric which is not recommended in this Guidance, they should explain why.
- 178. For all metrics, trustees should concisely explain their methodologies and those of any asset managers or third-party service providers used, and their rationale for taking the approach that has been adopted.
- 179. When reporting total GHG emissions and Carbon Footprint, trustees should report the proportion of assets for which data was available. Trustees should concisely explain where data was estimated, and should indicate any assumptions that have been made that could impact significantly on the results. Where they have data of uncertain quality, trustees should again concisely explain this.
- 180. Where trustees report metrics on only a proportion of the portfolio, they should explain the proportion on which they are reporting.

<sup>54</sup> Table 2 (p. 11) of the 2017 TCFD Final Report provides examples of "key categories of commonly accepted opportunities" as well as types of investment and financing opportunities and climate-related financial impact.

- 181. When reporting total GHG emissions and Carbon Footprint, trustees should set out the Scope 1 and Scope 2 emissions of assets separately from the Scope 3 emissions of assets for each DB section and each popular DC arrangement. Trustees may additionally report the Scope 1 and Scope 2 emissions of assets separately. Emissions should be reported in amount of CO<sub>2</sub> equivalent (CO<sub>2</sub>e).
- 182. If trustees believe that it is not meaningful, in relation to any metric, to aggregate data across certain asset classes, they should not do so, but should instead report at the most aggregated level which remains meaningful (for example at asset class level). If this approach is necessary, they should also report the proportions of the scheme assets associated with each reported metric (in the above example, the proportion of the portfolio represented by each asset class).
- 183. Trustees may choose to disclose some or all of their chosen metrics against a relevant benchmark to identify the relative performance of the portfolio.

# **Targets**

- 184. Trustees must set at least one target for the scheme in relation to at least one of the metrics which they have selected to calculate and must disclose associated information in their TCFD report. Performance against the target which trustees have set should be measured and the target reviewed in each scheme year. The requirement to measure performance against targets must be met by trustees "as far as they are able". See Part 2, paragraphs 1 to 14.
- 185. Target-setting should be used by trustee boards to track their efforts to manage climate change risk exposure and take advantage of climate change opportunities.
- 186. The targets that trustees set should be scheme-specific and should not conflict with trustees' fiduciary duties, or the investment policies stated in the Statement of Investment Principles. An excessive focus on portfolio optimisation to meet targets at the expense of scheme objectives could be contrary to trustees fiduciary duty under trusts law. There is no expectation that trustees should set targets which require them to divest or invest in a given way, and the targets are not legally binding.
- 187. For their chosen target, trustees should set a reference base year against which progress is assessed, a timeframe for achieving the target and the methodology by which they will calculate performance against it.
- 188. Whilst long term targets such as "net zero by 2050" are ambitious, a long-term target with no interim targets would not on its own meet our expectation for trustees to consider and appropriately manage climate-related risk. Therefore, the target which trustees set should not be more than 10 years into the future. Where trustees choose to set a target which is more than 10 years into the future and they do not set any interim targets they should explain why in their report.

- 189. Targets can be percentage-based or absolute. They can be a fixed point, or a point relative to a benchmark.
- 190. Trustees are free to select a target in relation to the whole portfolio or only part of the portfolio for example, in relation to a particular section, fund, sector or asset class. Any emissions target set by the trustees need not cover all 3 Scopes of GHG emissions.
- 191. The target is purely for the management of material climate-related risks and opportunities trustees are not expected to align their own targets with other schemes' or official targets. As explained above, the targets are not legally binding.
- 192. Targets should be embedded in governance, strategy and risk management processes, and communicated to service providers, where relevant to their services.

## **Disclosure of targets**

- 193. Trustees must describe in their TCFD report the target they have set, and the performance of the scheme against the target.
- 194. Trustees should report concisely on the steps they are taking to achieve the target or targets.
- 195. Trustees should provide a concise description of the methodology used to measure performance against the target or targets, including any estimations relied upon in measuring progress.
- 196. Where trustees have replaced a target, they should briefly explain why. Similarly, where a target has been missed, trustees should offer a brief explanation. Such explanations could help savers and others understand the trustees' conclusions on the events or circumstances that made the target unachievable or not in members' interests.

# Part 4: Publication of a TCFD Report

- This section of the Guidance sets out the matters to which trustees must have regard:
  - when publishing a report in accordance with the Climate Change Governance and Reporting Regulations; and
  - when notifying members that the report is available in accordance with the Disclosure Regulations.
- Trustees and managers of schemes not in scope of these requirements, but who are considering voluntarily preparing a TCFD style report, may also find this Guidance useful.

# Required elements

## **Presenting the information**

- 3. In accordance with paragraph 34A of Schedule 3 to the Disclosure Regulations, trustees must provide the website address of their published TCFD report in their Annual Report.
- 4. The website address should be given in a clear sub-titled section within the Annual Report and Accounts and be accompanied by a short summary explaining where the link will take the reader to. Where the Annual Report and Accounts are provided in an electronic format, the website address should be included as a hyperlink so that members can click on the link and be taken to the TCFD report. The website address itself should also be appropriately titled so that members can readily re-type it into a web browser.
- 5. Trustees may also choose to include in the sub-titled section:
  - a short explanation of what a TCFD report is;
  - why it is important;
  - a high-level summary of the TCFD report findings; and
  - where members can find more information on the schemes' other ESG activities.

## Finding and accessing the information

6. The TCFD report must be published on a publicly available website where it is accessible free of charge. The report should be published in a manner which allows for the content to be indexed by search engines:

- if published on the scheme's or employer's website, it should not include text which prevents the page from being indexed, and it should be linked to other pages which are found by web search engines;
- if published via another website for example, via a social media site, a
  blogging tool or a repository offered by a search engine provider appropriate
  options should be selected to ensure that the document is public and can be
  indexed.
- 7. Persons wishing to view the information should not be required to do so by:
  - entering a specific user name and/or a specific password;
  - providing any other personal information about themselves.
- 8. Trustees are required to include the information specified in regulation 27(2)(a) to (d) of the Disclosure Regulations when informing members about their published TCFD report in the Annual Benefit Statement and, where relevant, Annual Funding Statement. The required information includes the website address of the published TCFD report, which should be appropriately titled so that members can readily re-type it into a web browser.
- 9. For the Annual Benefit Statement, trustees of DC schemes may choose to provide a single website link which not only points to all the published information they are required to inform members about in accordance with paragraph 5B of Schedule 6 to the Disclosure Regulations,<sup>55</sup> but also to the published TCFD report which they are required to inform members about in accordance with paragraph 5C. Where trustees choose this approach, the link should be suitably explained. An example excerpt illustrating this for a DC scheme can be seen below:

The following documents are available at the website address stated below:

- TCFD report our identification, assessment and management of climate change risk;
- Statement of Investment Principles (SIP):
- Implementation report how we have reviewed and acted on the investment policies in the SIP and
- The impact of charges and transaction costs on your pension pot and other excerpts of the Chair's Statement.

Please visit, www.maedupppension.co.uk/members-information

10. In the first scheme year the requirement to publish a TCFD report applies to trustees, some schemes will issue their Annual Benefit Statement or Annual Funding Statement in advance of publishing their TCFD report. In this scenario,

<sup>&</sup>lt;sup>55</sup> Paragraph 5B of the Disclosure Regulations was inserted by regulation 3 of the Occupational Pension Schemes (Administration and Disclosure) (Amendment) Regulations (Northern Ireland) 2018 and amended by regulation 5 of the Pension Protection Fund (Pensionable Service) and Occupational Pension Schemes (Investment and Disclosure) (Amendment and Modification) Regulations (Northern Ireland) 2018.

trustees should, wherever possible, state in their Annual Benefit Statement (and Annual Funding Statement where applicable) the website location where the TCFD report will eventually be published. They should also state the deadline for publication. This scenario is illustrated below:

Maedupp Pension Scheme is in scope of the climate change governance and reporting requirements from 1 October 2021. It has a scheme year end date of 31 March so the deadline for publishing a TCFD report is 31 October 2022. However, the Annual Benefit Statement issue date is earlier, on 1 June 2022. Example annual benefit statement excerpt below:

"For more information on the following:

- TCFD report - our identification, assessment and management of climate change risk (to be published no later than 31 Oct-2022)

Please visit, www.maedupppension.co.uk/members-information"

- 11. In subsequent scheme years, schemes must point to their most recently published TCFD report.
- 12. Where trustees think there are **additional**, age-specific or more engaging ways of informing members about the TCFD report, such as digital newsletters, they are encouraged to employ them.

## Needs of disabled people

- 13. Trustees should satisfy themselves that they have adequately taken account of the needs of disabled people in publishing the TCFD Report.
- 14. Examples of factors they should take into account include, but are not limited to:
  - whether screen reading software used by visually impaired and blind people can read the content and do so in a logical sequence;
  - whether the text can be enlarged, and whether the contrast in the pages is adequate so it can read by visually impaired people;
  - whether the text is simply and clearly written for the benefit of cognitivelyimpaired users.
- 15. Trustees may also consider getting a Crystal Mark accreditation for their TCFD report from the Plain English Campaign<sup>56</sup>, or another form of verification or certification.
- 16. Trustees may wish to take account of the web content accessibility guidelines (WCAG) 2.1<sup>57</sup>, published by the Web Accessibility Initiative<sup>58</sup>, established by the World Wide Web Consortium (W3C), in verifying that the content takes account of the requirements of disabled people.

<sup>&</sup>lt;sup>56</sup> http://www.plainenglish.co.uk/accreditation.html

<sup>&</sup>lt;sup>57</sup> http://www.w3.org/TR/WCAG21/

<sup>58</sup> http://www.w3.org/WAI/

17. Although this section of the Guidance is about publishing information, the attention of trustees is drawn to the Disclosure Regulations, Schedule 4 paragraph 10(b), Schedule 5, paragraph 6A(b) and Schedule 6, paragraph 5C(b) concerning the provision of the TCFD report in hard copy. Where a person has a disability which means that they are less able to access information on a website, this should be a key factor in deciding to provide that information in a different format.

## Storage or printing of the information

- 18. The TCFD report, whether published on a single webpage or across more than one page, should be published on a webpage in a way which enables the information displayed to be printed by the reader using widely used web browsers, using the menus available via the browser or functionality on the page itself.
- 19. In addition, the webpage on which the information is displayed should be such that the TCFD report should be capable of being downloaded and stored using a modern web browser, again either via the browser menus or the page's functionality.

# **Optional elements**

20. Trustees may additionally wish to publish their TCFD report in other locations, such as on the password-protected online servicing sections of the scheme's website. However, this does not remove the requirement to publish the information online in such a way that everyone can find the information without registration or entering any personal details.

# Annex: Principles for Effective Disclosures<sup>59</sup>

1	Disclosures should present relevant information specific to the potential impact of climate-related risks and opportunities on the scheme avoiding generic or boilerplate disclosures that do not add value to members' understanding of issues.
2	Disclosures should be specific and sufficiently complete to provide a thorough overview of the scheme's exposure to potential climate-related impacts and the trustees' governance, strategy and processes for managing climate-related risks and opportunities.
3	Disclosures should be clear and understandable showing an appropriate balance between qualitative and quantitative information.
4	Disclosures should be consistent over time to enable scheme members to understand the development and/or evolution of the impact of climate-related issues on the scheme.
5	Disclosures should ideally be comparable with other pension funds of a similar size and type.
6	Disclosures should be reliable, verifiable and objective.
7	Disclosures should be provided on a timely basis. The TCFD recommends annual disclosures for organisations.

<sup>&</sup>lt;sup>59</sup> Adapted from the TCFD Final Report, Annex: Implementing the Recommendations of the TCFD (June 2017) 'Appendix 3: Fundamental Principles of Effective Disclosure' (page 51) - <a href="https://www.fsb-tcfd.org/publications/final-implementing-tcfd-recommendations/">https://www.fsb-tcfd.org/publications/final-implementing-tcfd-recommendations/</a>