

# ANNUAL ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG) REPORT

Global Responsible Managed Fund



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# GLOBAL RESPONSIBLE MANAGED

The Janus Henderson Global Responsible Managed Fund aims to provide capital growth over the long term (5 years or more). The fund seeks a responsible approach to investing in the shares and bonds of global companies by incorporating environmental, social and governance (ESG) factors in investment decisions and by avoiding companies that the investment manager considers to be involved in business activities and behaviours that may be environmentally and/ or socially harmful.

ESG can have a material impact on financial returns. This report highlights some of the most material and quantifiable ESG key performance indicators (KPIs) for the Janus Henderson Global Responsible Managed Fund.

## Responsible investment

In 2006, Janus Henderson became a founding signatory of the United Nations Principles for Responsible Investment (UN PRI) publicly demonstrating its commitment to including ESG factors in investment decision making. The UN PRI defines responsible investment as



This definition is reflected in the fund's responsible investing approach with an ethos of strong avoidance criteria and a focus on integrating ESG factors. The portfolio managers' investment approach is not static; as the science and knowledge of environmental, social and governance issues evolves, the managers will look to adapt and refine the approach.



# CONSTRUCTION OF THE FUND

The fund consists of three investment sub-portfolios: global equities, UK equities and fixed income. The sub-portfolios have the following approaches:



### Global equities

The global equity sub-portfolio is managed using the same investment approach as Janus Henderson's Global Sustainable Equity Strategy which applies 'positive selection criteria'. This investment approach seeks to invest in businesses that have products or services that contribute to positive environmental or social change and thereby have an impact on the development of a sustainable global economy, whilst avoiding companies that potentially have a negative impact on the development of a sustainable global economy.

Investment themes include: efficiency, cleaner energy, water management, environmental services, sustainable transport, sustainable property & finance, safety, quality of life, knowledge & technology and health. Full details on this sub-portfolio's approach can be found in the Global Sustainable Equity Investment Principles document which is available on www.janushenderson.com.





The UK equity sub-portfolio is managed using the same investment approach as Janus Henderson's UK Responsible Income Strategy. This strategy seeks to identify UK companies with attractive long-term business models offering the potential for good dividend growth and capital returns over the long term. As part of the UK Responsible Income Strategy's investment process the portfolio manager will consider the effect of material environmental, social and governance issues on the long-term attractiveness of companies. The strategy avoids companies that the portfolio manager considers to be involved in business activities and behaviours that may be environmentally and/or socially harmful. Full details on this sub-portfolio's approach can be found in the UK Responsible Income Investment Principles document which is available on www.janushenderson.com.



### Fixed income

The fixed income sub-portfolio seeks to provide a return from a combination of income and capital growth over the long term. The responsible investment approach of the sub-portfolio seeks to invest in G7¹ government debt and global company bonds by incorporating ESG factors in investment decisions. This includes investment in labelled bonds, such as Green, Social and Sustainability Bonds², which are any type of bond instrument where the proceeds will be exclusively applied to eligible environmental and social projects or a combination of both. The sub-portfolio seeks to avoid companies that the portfolio manager considers to be involved in business activities and behaviours that may be environmentally and/or socially harmful. Further details on this sub-portfolio's approach can be found throughout this document.

<sup>&</sup>lt;sup>1</sup> G7 nations consist of Canada, France, Germany, Italy, Japan, the UK and the US.

 $<sup>^{\</sup>rm 2}$  Labelled bonds include, but are not limited to, the following products:

Green Bonds are any type of bond instrument where the proceeds will be exclusively applied to finance or re-finance projects with clear environmental benefits, and which are aligned with the Core Components of the Green Bond Principles.

<sup>•</sup> Social Bonds are finance projects that directly aim to address or mitigate a specific social issue and/or seek to achieve positive social outcomes, especially but not exclusively for a target population(s) and are aligned with the Core Components of the Social Bond Principles.

Sustainability Bonds are any type of bond instrument where the proceeds will be exclusively applied to finance or re-finance a combination of Green and Social Projects, and which are aligned with the Core Components of the Green Bond Principles and Social Bond Principles.

Sustainability-Linked Bonds are any type of bond instrument for which the financial and/or structural characteristics (i.e. coupon, maturity, repayment amount) can vary
depending on whether the issuer achieves predefined sustainability/environmental and/or social and/or governance objectives within a predefined timeline, and which
are aligned with the Core Components on the Sustainability-Linked Bonds Principles.

# **ESG INTEGRATION**

For this fund, analysing ESG issues is an important part of researching a company's business fundamentals.

Environmental factors consider a company's impact on the environment; social factors consider the way businesses treat and value people and analysis governance factors focus on corporate policies and how companies are governed. We believe companies with sound governance practices and strong stakeholder relations, that manage relevant environmental and social risks responsibly, have a greater propensity to create long-term value for shareholders.

We examine issues such as a company's supply chain, reputation, brand value, the use of management incentives and the robustness of industry returns; all of these can potentially be impacted by ESG factors.

Key ESG issues considered as part of the investment process include corporate governance, human capital, diversity, equity and inclusion (DEI), climate change, controversies, disclosure, transparency and business ethics.

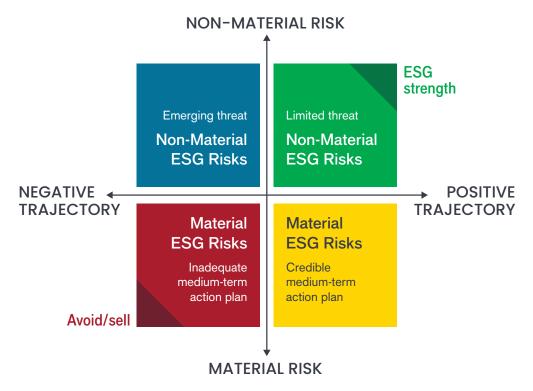
### Equity sub-portfolios

As our strategic external ESG data provider, MSCI provides various ESG metrics and tools at both the portfolio and individual company level. MSCI provides an ESG Quality Score which measures the ability of the underlying holdings to manage key medium to long term risks and opportunities that arise from ESG factors. It is based on MSCI ESG Ratings and is measured on a scale of 0 to 10 (worst to best). These ratings and scores are supplemented by Janus Henderson research and analysis as well as engagements with companies when appropriate. The funds ESG Quality Score, as measured by MSCI, is expected to be superior to that of the benchmark.

### Fixed income sub-portfolio

The fixed income sub-portfolio uses proprietary ESG analysis conducted by Janus Henderson's team of credit analysts to establish the materiality of an issuer's ESG risks for corporate bonds. ESG research is blended with fundamental analysis and proactive engagement with issuers. The output is an in-house credit ESG rating for every corporate bond issuer the fund invests in, ensuring ESG is integrated within the Global Credit Team's recommendations.

# Proprietary credit ESG rating framework



# **AVOIDANCE CRITERIA**

The fund seeks to avoid businesses that have products or operations directly associated with the criteria in the table below (subject to the de minimis limits) in order to minimise exposure to business activities that may be environmentally and/or socially harmful.

Where possible, we will seek to achieve zero exposure in respect of the avoidance criteria. However, there may be instances when we will apply a de minimis limit. A de minimis limit is a threshold above which investment will not be made and relates to the scope of a company's business activity; the limit may be quantitative (e.g. expressed as a percentage of a company's revenues), or may involve a more qualitative assessment. De minimis limits exist because sometimes avoiding an industry entirely may not be feasible given the complex nature of business operations.

In such instances, we will invest in a company only if we are satisfied that the 'avoided' activity forms a small part of the company's business, and when our research shows that the company manages the activity in line with best practice.

When the activity relates to a company's revenues we use a 10% threshold, unless otherwise stated.

When the activity relates to a company's operations, we will seek to gain comfort that the company is taking action to improve its performance, or is managing it in an exemplary fashion. Any company with a persistent record of misconduct will be excluded unless there is clear evidence of significant progress. The table below shows the fund's key avoidance criteria. For more details, please see the Fund's Investment Principles document that can be found on Janus Henderson's website.

## Key avoidance criteria

Alcohol	Fossil fuel extraction & refining	Animal testing (for non-medical purposes)
Armaments	Fossil fuel power generation <sup>3</sup>	Fur
Gambling	Chemicals of concern	Genetic engineering
Pornography	Contentious industries <sup>4</sup>	Nuclear power
Tobacco		

# Calculation methodology

This year metrics have been included for all 3 sub-portfolios where possible rather than just the fund's equity sub-portfolios. The weighting of the sub-portfolios at the end of December 2022 (excluding cash and reweighted to 100%) were 49.7% Global Equities, 27.3% UK Equities and 23% Fixed Income.

The fund's benchmark is the IA Mixed Investment 40-85% Shares sector (a peer group benchmark) and insufficient underlying holdings data is readily available to provide meaningful benchmark analysis. Given this we have used a comparator benchmark (consisting of 50% MSCI World, 25% FTSE All Share, 12.5% Bloomberg

Barclays Global Aggregate Corporate Unhedged GBP and 12.5% Bloomberg Barclays Sterling Aggregate Unhedged GBP) for the analysis in this report.

Sovereign bonds have been excluded from the analysis due to a lack of data availability. Consequently, the maximum coverage possible for the fund (ex-sovereigns) is 89.4%. In addition, where corporate bond coverage for a particular ESG metric is low/not available, we have excluded all fixed income holdings from the analysis and provided data for equities only. This will be clearly noted where relevant.

<sup>&</sup>lt;sup>3</sup> For a company to be transitioning to renewables, the carbon intensity would need to be aligned with a below 2°C scenario (limiting global warming to 2°C from pre-industrial levels). Where carbon intensity cannot be determined, a 10% threshold for energy production from natural gas is used.

<sup>&</sup>lt;sup>4</sup> We also seek to avoid companies operating in contentious industries which have a high degree of negative environmental or social impact, unless the company is taking action to mitigate negative impacts. Examples of contentious industries include cement, mining and timber.

<sup>&</sup>lt;sup>5</sup> IA Mixed Investment 40-85% Shares peer group description: The Investment Association (IA) groups funds with similar geographic and/or investment remit into sectors. The Fund's ranking within the sector (as calculated by a number of data providers) can be a useful performance comparison against other funds with similar aims.

# **ESG PERFORMANCE**<sup>6</sup>

We believe that ESG factors can have a material impact on financial returns. There are a myriad of ESG factors, which can vary in importance depending on a company's operational sector/industry. A variety of internal and external resources are used to identify and analyse key ESG issues. We also work closely with the central Janus Henderson Responsibility Team.

The following metrics show some of the ESG Key Performance Indicators (KPIs) that we consider during our fundamental assessment of a company. This is not an exhaustive list and may change over time as the as the quality and consistency of reporting improves<sup>7</sup>. Carbon-related metrics are shown separately in the Taskforce on Climate-Related Financial Disclosures (TFCD) reporting section.

# Carbon Disclosure Project (CDP)

Used by investors, corporations and regulators, the CDP has become the gold standard for reporting globally on carbon emissions, climate change risks, and opportunities. While we note that a number of our holding companies report carbon metrics outside of the CDP, our preference is for companies to use the CDP to ensure the adoption of a common framework.

To disclose, a company must complete a detailed questionnaire and submit this to the CDP which will be available to access on the CDP website. These disclosures are also scored from A to D- by the CDP based on the comprehensiveness of disclosure, awareness, the management of environmental risks and best practices associated with environmental leadership, such as setting ambitious and meaningful targets.

We regularly engage with companies on climate change and reporting, so it is encouraging to see the fund remains ahead of the comparator benchmark with regard to CDP.

	Fund percentage of companies (%)	Comparator benchmark percentage of companies (%)
2022	73.7	72.7

## Coverage rate:

Fund: 83.5%

Comparator benchmark: 87.1%

Source: Janus Henderson, Bloomberg, Carbon Disclosure Project. As at 31 December 2022. Comparator benchmark: 50% MSCI World, 25% FTSE All-Share Index, 12.5% Bloomberg Barclays Global Aggregate Corporate Unhedged GBP, 12.5% Bloomberg Barclays Sterling Aggregate Unhedged GBP.

Note: This is the percentage of companies currently disclosing to the Carbon Disclosure Project on either climate change, water or forests. This data is sourced from Bloomberg. Where a company's data is not covered by Bloomberg, it is assumed that it does not disclosure to the CDP.

# Science-Based Targets (SBTi)

The Science Based Targets Institute is a partnership of the CDP, The United Nations Global Compact, World Resources Institute and the World Wide Fund for Nature. Companies submit targets to the Institute which, in turn, provides technical assistance and expert resources to assist these companies in reducing emissions in line with the goals of the Paris Agreement.

For a company's target to be considered science-based, it must be on track to meet the goals of the Paris Agreement according to the latest climate science. For a company to have committed to a science-based target, it must send a letter of commitment to the SBTi establishing its intent to set a science-based target. The company will then have 24 months to submit a target and have it validated and published by the SBTi.

We regularly engage with companies on SBTi and encourage its adoption. It is therefore encouraging to see that 59.2% of the fund's holdings have either set or committed to set science-based targets. This is greater than the comparator benchmark weighting of 48.7%.

	Fund percentage of companies (%)	Comparator benchmark percentage of companies (%)
Set Science-based targets	36.2	36.2
Committed to setting Science-based targets	23.0	12.5

### Coverage rate:

Fund: 89.4%

Comparator benchmark: 89.9%

Source: Janus Henderson, Bloomberg, Science-Based Target Institute, as at 31 December 2022. Comparator benchmark: 50% MSCI World, 25% FTSE All-Share Index, 12.5% Bloomberg Barclays Global Aggregate Corporate Unhedged GBP, 12.5% Bloomberg Barclays Sterling Aggregate Unhedged GBP.

<sup>&</sup>lt;sup>6</sup> Data in this document is taken from multiple sources, including MSCI, ISS and Bloomberg. Providers are selected for certain metrics based on the quality of data and coverage rates. Figures are likely to vary according to the data provider. See Table 1 in the appendix for the calculation methodology.

<sup>&</sup>lt;sup>7</sup>The portfolio coverage rate was a factor when selecting metrics for this section.

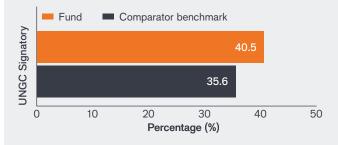
# ESG PERFORMANCE (CONTINUED)

## **UN Global Compact**

This is the percentage of companies that are signatories to the 10 principles of the UN Global Compact (UNGC). The principles set out a minimum standard of operation that organisations voluntarily commit to upholding. The principles are focused on four areas: human rights, labour, environment, and anti-corruption.

We saw an increase in the number of companies signed up to the UNGC in 2022 in the fund. This has been driven by increased stakeholder demand for companies to demonstrate commitment to responsible management practices, although many companies are opting to meet the UNGC without becoming a signatory of the principles.

The team supports the Global Compact and recommends that organisations commit to the principles and elect to become official signatories. Companies in violation of the UNGC principles are excluded as part of our investment process.



### Coverage rate:

Fund: **67.1%** 

Comparator benchmark: 57.7%

Source: Janus Henderson, Bloomberg, UNGC Website, as at 31 December 2022. Comparator benchmark: 50% MSCI World, 25% FTSE All-Share Index, 12.5% Bloomberg Barclays Global Aggregate Corporate Unhedged GBP, 12.5% Bloomberg Barclays Sterling Aggregate Unhedged GBP.

Note: This is the sum, by weight, of companies in the portfolio and the benchmark that are signatories of the UN Global Compact. Where a company's data is not covered by Bloomberg, companies are assumed to not be signatories of the UN Global Compact.

## Company controversies

We use data providers to help us identify when organisations have alleged involvement in controversies related to their practices. The below metric from MSCI reflects the number of incidents of involvement in issues with negative ESG implications. This is reported as an average of the portfolio and the comparator benchmark<sup>8</sup>.

The portfolio is significantly outperforming the comparator benchmark on this metric. Controversies can lead to value destruction and one of the benefits of performing ESG analysis before we make an investment is our belief that companies with strong management of ESG risks are less likely to be involved in controversies. Our investment process also looks to avoid investing in companies with severe controversies that have not been addressed and remediated.

When controversies arise in portfolio holdings, we seek to engage with the company in question to determine materiality and assess the strength of response.



### Coverage rates:

Equity sub-portfolios: 99.8%

Equity comparator benchmark: 97.0%

Source: Janus Henderson, MSCI. As at 31 December 2022. Equity comparator benchmark: 67% MSCI World, 33% FTSE All-Share Index.

Note: This is the weighted average controversy score for the equity element of the fund and the comparator benchmark (equity only) based on the total number of controversies attributed to a company by MSCI.

Insufficient data for this metric was available for the corporate bond exposure so the data above is based on the fund's equity exposure (rebased to 100%).

<sup>&</sup>lt;sup>8</sup> The team elected to switch from Sustainalytics to MSCl's controversy scoring methodology, meaning data is not comparable to 2021. The Sustainalytics controversy risk score is measured on a scale of 1-5, and in 2021 was 1.4 for the equity sub-portfolios.

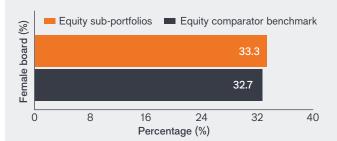
# **ESG PERFORMANCE** (CONTINUED)

## Female board %

Our investment process includes analysis of diversity and inclusion. We believe that diversity of thought and background is essential, especially in leadership where it can make a significant impact on company culture. The ratio of females to males in board seats is a key aspect of that diversity<sup>9</sup>.

We consider board diversity vital to ensure that opportunities exist at all levels for under-represented groups with Diversity & Inclusion an ongoing engagement topic for the team in company meetings.

The data shows that for the equities held within the fund, there is better female representation at the board level than the equity comparator benchmark.



### Coverage rate:

Equity sub-portfolios: 98.8%

Equity comparator benchmark: 93.9%

Source: Janus Henderson, Bloomberg, as at 31 December 2022. Equity comparator benchmark: 67% MSCI World, 33% FTSE All-Share Index.

Note: Female board percentage is a weighted average. Where a company's data is not covered by Bloomberg, it is excluded from the calculation.

Insufficient data for this metric was available for the corporate bond exposure so the data above is based on the fund's equity exposure (rebased to 100%).

# Chief Executive Officer (CEO) tenure

The fund invests on a long-term time horizon and seeks management teams whose views and commitments are equally long-term in nature. Although a change of management may sometimes help a business that is struggling, the ability to implement a long-term strategy often benefits from CEOs that remain in place long enough to deliver it.

We believe that companies with a long-serving CEO are more likely to be focused on ESG with positive implications for corporate resilience and employee job security.

The chart below shows the length of CEO tenure in years reported as a weighted average of the portfolio and comparator benchmark.



### Coverage rates:

Fund: 87.2%

Comparator benchmark: 84.2%

Source: Janus Henderson, Bloomberg, as at 31 December 2022. Comparator benchmark: 50% MSCI World, 25% FTSE All-Share Index, 12.5% Bloomberg Barclays Global Aggregate Corporate Unhedged GBP, 12.5% Bloomberg Barclays Sterling Aggregate Unhedged GBP.

Note: CEO tenure is a weighted average. Where a company's data is not covered by Bloomberg, it is excluded from the calculation.

<sup>&</sup>lt;sup>9</sup> We elected to replace 'Female executives' as our measure of gender diversity in 2021 with 'Average ratio of female to male board members' to align with the recent UK government backed FTSE Women Leaders Review, which has set out the following recommendations.

i) for FTSE 350 boards to have a minimum 40% female representation by 2025,

ii) to have at least one women Chair / Senior Independent Director and/or one woman in the CEO or Financial Director (FD) role by end 2025,

iii) to extend the scope beyond the FTSE 350 to include the largest 50 private companies in the UK by sales.

# **ESG PERFORMANCE** (CONTINUED)

# Research and Development (R&D) spend to net sales

This KPI shows the average R&D expenditure as a percentage of revenue (net sales) and is reported as the weighted average of the equity sub-portfolios and the equity comparator benchmark. We believe companies which place value on R&D are more likely to have durable long-term business models. This is reflected in the portfolio's higher R&D spend when compared to that of the comparator benchmark.



### Coverage rates:

Equity sub-portfolios: 76.2%

Equity comparator benchmark: 75.8%

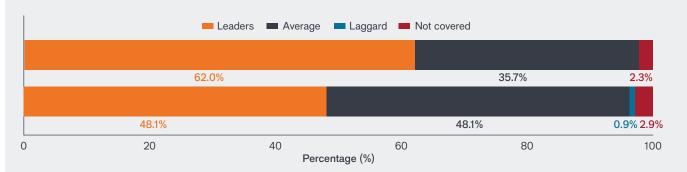
Source: Janus Henderson, Bloomberg. As at 31 December 2022. Equity comparator benchmark: 67% MSCI World, 33% FTSE All-Share Index.

Note: R&D expenditure as a percentage of revenue. This data is given as a weighted average and sourced from Bloomberg. Where a company's data is not covered by Bloomberg, it is excluded from the calculation.

Insufficient data for this metric was available for the corporate bond exposure so the data below is based on the fund's equity exposure (rebased to 100%).

# Overall ESG risk rating

In aggregate, the holdings in the fund were found to be of a higher ESG rating when compared to the comparator benchmark using MSCI data. The portfolio has 62.0% of companies rated 'Leader' (AA-AAA) whereas the comparator benchmark has 48.1%.



### Coverage rates:

Fund: **98.0**%

Comparator benchmark: 97.0%

Source: Janus Henderson, MSCI. As at 31 December 2022. Comparator benchmark: 50% MSCI World, 25% FTSE All-Share Index, 12.5% Bloomberg Barclays Global Aggregate Corporate Unhedged GBP, 12.5% Bloomberg Barclays Sterling Aggregate Unhedged GBP.

ESG Ratings Distribution represents the percentage of a portfolio's market value coming from holdings classified as ESG Ratings Leaders (AAA and AA), Average (A, BBB, and BB), and Laggards (B and CCC).

To help identify the information needed by investors, lenders, and insurance underwriters to appropriately assess and price climate-related risks and opportunities, the Financial Stability Board established an industry-led task force: The Task Force on Climate-related Financial Disclosures (TCFD). The Task Force released its final report in June 2017 which outlined recommendations for more effective climate-related disclosures. Since then, the TCFD has reported that almost 10% of annual reports it reviewed contained TCFD recommendations, with adoption being strong amongst asset managers.

The Janus Henderson Global Responsible Managed Strategy welcomes and fully endorses the recommendations of the Financial Stability Board's TCFD and the increased focus on climate change. Our disclosure on climate-related risk will focus on how we incorporate risks related to transition to a lower-carbon economy and risks related to the physical impacts of climate change and the opportunities.

We will be reporting in line with the TCFD's Core Elements of Recommended Climate-Related Financial Disclosures.



### Governance

Janus Henderson's ESG Oversight Committee, chaired by our Chief Responsibility Officer, provides oversight of a range of issues at a portfolio and security level, including monitoring of issuer-level positions for investments identified as having climate or ESG risks.

Both our Front Office Controls and Governance team embedded within the Investment function and our second line Financial Risk team will provide portfolio level oversight of climate and ESG risks. Our Investment Performance and Risk Committee and Front Office Governance and Risk Committee will provide oversight for their respective areas of governance.

While our Boards of Directors (parent company and relevant subsidiaries) received updates on climate and ESG issues in the past, formal oversight of these issues was put under the remit of the Governance and Nominations Committee of our Parent Company Board in 2023. Our Chief Responsibility Officer is establishing tangible metrics with the Committee and will be providing quarterly updates to the Committee on both operational and investment strategy targets, and initiatives. These metrics and discussion will encompass both Corporate Responsibility and Responsible Investing. In addition, in 2023, our internal risk functions will be providing upgrades to the Risk Committee of the Parent Company Board and our UK entity Boards on both corporate climate risk and portfolio climate risk.

## Strategy

Ever since the launch of the strategy in 2000 we have had clearly defined principles concerning the types of businesses we will allocate capital to. A distinguishing feature of our strategy is the fund's low carbon characteristics relative to its benchmark. We believe it makes sense to avoid investing in companies that are heavily exposed to climate-related risk and look to invest in climate related opportunities where applicable. Our investment approach is aligned with the transition to a lower-carbon economy.

There are multiple levels to our low carbon investment approach<sup>10</sup>.

We do not invest in suppliers of fossil fuel
e.g. oil services.

We do not invest in suppliers of fossil fuel
e.g. diesel engines and turbines for fossil fuel
power stations.

We do not invest in high carbon emitters
e.g. cement and airlines.

We invest in solution providers
e.g. renewables, batteries, efficiency, electrification,
semiconductors, building materials and design

We engage with companies in our portfolio on carbon
reduction and elimination

We actively engage with senior management and company boards to encourage them to reach net zero by a defined date and within a reasonable timeframe, and to do so by developing realistic and credible strategies with currently available technologies. Progress along this journey will vary company to company, meaning that our level of engagement also differs. However, our engagement agenda can broadly be categorised in three ways, starting with the best case scenario:

- I. Adopting a target to become net zero by 2030.
- **II.** Reporting on emissions and adopting a target to become net zero by 2050 or earlier.
- **III.** Reporting on emissions and adopting a target to become net zero by any date.

Engagements II and III are regarded as a progression towards engagement in line with I.

## Risk management

Our investment process considers climate-related risk and opportunities prior to investment. This analysis is often both quantitative and qualitative in nature.

We consider both transitional and physical risks and opportunities associated with a company. Many of these risks are avoided through the design of our investment process. Other risks are captured through our ESG analysis, and the results are incorporated into the fund construction. Where risks cannot be fully eliminated, we seek to engage on potential improvement points.

Using the Task Force on Climate-related Financial Disclosures: Guidance on Risk Management Integration and Disclosure, we have sought to expand on the mitigation measures in place for transition and physical risk.

<sup>&</sup>lt;sup>10</sup> The full details of our investment approach can be found in our Investment Principles

Туре	Climate-related risk	Mitigation approach
	Policy and Legal	Policy and Legal changes are incorporated into the strategy through a process of continuous improvement. The team analyse the impact of regulatory developments on the companies it invests in as part of the ESG analysis. Where we feel that a risk can be mitigated, it is included as an engagement topic.
Transition	Technology	The fund avoids high carbon emission industries and technologies. To demonstrate this, we have made public our carbon footprint in comparison to our benchmark. The ESG analysis includes consideration of a company's use of technology to reduce its climate-related risks. We also engage with companies on this topic.
Trans	Market	We believe that there is already a market shift taking place where companies that do not consider climate-related risk will be negatively impacted. Our investment framework seeks to avoid investing in companies that the investment manager considers to be involved in business activities and behaviours that may be environmentally and/or socially harmful.
	Reputation	We have made public our carbon footprint in comparison to our benchmark in this annual report. In addition, we analyse the companies we invest in for climate-related controversies using controversy screening. We also engage with companies on this topic.
Physical	Acute	As part of our ESG analysis, we consider the location of the companies we invest in as well as the location of
Phys	Chronic	their supply chain. As part of this, we use scenario analysis to analyse acute and chronic risk associated with the companies we invest in. We also engage with companies on this topic.

Source: Global Responsible Managed Strategy, 2022.

## Metrics and targets

We use a variety of metrics and tools to manage and monitor the impact of climate change on the fund, as well as our alignment with the Paris Agreement. We will be discussing the following metrics based on the fund as of 31 December 2022:

Greenhouse gas (GHG) emissions metrics	Expected temperature rise	Scenario analysis
Point in time, retrospective	Forward looking, planetary impact	Forward looking, fund impact
Scope 1 and 2 emissions	MSCI expected temperature rise	Climate value-at-risk
Scope 3 emissions, upstream and downstream	2050 horizon	Transitional risks and opportunities
Carbon footprint		Physical risks and opportunities
Weight Average Carbon Intensity (WACI)		15-year horizon

### **Fund GHG metrics**

Fund GHG metrics provide point in time information helping us to understand the current source of emissions in the fund. This information is useful for helping us identify companies' or industries' exposure to climate transition risks, as well as helping us identify climate focused engagement opportunities. In line with the Greenhouse Gas Protocol (GHGP), we consider GHG emissions in three types:

 Scope 1: Direct emissions that are a result of a firm's facilities, plant, or equipment (including vehicles) use during the production of goods or services

- Scope 2: Indirect emissions derived from the generation or purchase of energy that a company consumes as an ancillary activity to the production process
- Scope 3: All other indirect emissions, including across the company's upstream emissions (supply chains, commuting, transport, etc.) and downstream emissions (use of goods and services, investments, end-of-life treatment, etc.)<sup>11</sup>

We have elected to report GHG emissions metrics data from MSCI in this year's report.

## **GHG** emissions

Allocation Base	EVIC	Unit	Fund	Comparator benchmark
Carbon Emissions				
Total Carbon Emissions	Scope 1 & 2	Tons CO <sub>2</sub> e	11,835.0	44,121.7
Total Carbon Emissions	Scope 3 – upstream	Tons CO <sub>2</sub> e	59,036.7	75,368.0
Total Carbon Emissions	Scope 3 – downstream	Tons CO <sub>2</sub> e	28,748.7	243,544.7
Carbon Footprint				
Total Carbon Footprint	Scope 1 & 2	Tons CO <sub>2</sub> e/\$M invested	26.4	98.3
Total Carbon Footprint	Scope 3 – upstream	Tons CO <sub>2</sub> e/\$M invested	131.5	167.9
Total Carbon Footprint	Scope 3 – downstream	Tons CO <sub>2</sub> e/\$M invested	66.3	542.5
Weighted Average Carbon Intensity (	WACI)			
WACI Corporate Constituents	Scope 1 & 2	Tons CO <sub>2</sub> e/\$M revenue	42.1	144.7
WACI Corporate Constituents	Scope 3 – upstream	Tons CO <sub>2</sub> e/\$M revenue	225.3	245.2
WACI Corporate Constituents	Scope 3 – downstream	Tons CO <sub>2</sub> e/\$M revenue	132.3	623.9
WACI Sovereign Constituents	GHG Intensity	Tons CO2e/\$M GDP nominal	172.2	148.8
Fund Temperature Alignment				
Implied Temperature Rise		Degrees Celsius	1.8	2.5
Data Quality				
Reported Emissions		Percentage	83.8	85.4

Source: MSCI as at 31 December 2022. EVIC = Enterprise Value Including Cash.

Comparator benchmark: 50% MSCI World, 25% FTSE All-Share Index, 12.5% Bloomberg Barclays Global Aggregate Corporate Unhedged GBP, 12.5% Bloomberg Barclays Sterling Aggregate Unhedged GBP.

<sup>11</sup> Further information on what is included within a company's scope 3 emissions can be found via The Greenhouse Gas Protocol.

## Scenario analysis

We have identified the physical and transitional climate-related risks associated with the fund as well as some mitigation measures. We now use scenario analysis to understand the effects of different transitions to a low carbon economy on the fund relative to the benchmark. Analysing the results of a scenario analyses highlights which risks are driving changes in asset prices, improving our understanding of the fund's risk profile, and allowing us to enhance mitigation measures where appropriate.

A security's climate value-at-risk (CVaR) estimates the magnitude of changes in market value resulting from physical and transitional climate risks and opportunities. We analyse four potential scenarios based on the REMIND<sup>12</sup> integrated assessment model and provided by the Network for Greening the Financial System (NGFS)<sup>13</sup> below.

#### Orderly Transition 1.5°C Disorderly Transition 1.5°C 2°C Orderly Transition Hot House World 3°C Explores the possibility of Assumes that some climate Assumes climate policies Assumes climate policies are introduced early and higher transition risk due to are introduced early and policies are implemented become gradually more policies being delayed or become gradually more in some jurisdictions, but stringent. Assumes that we divergent across countries stringent. Assumes that global efforts are insufficient limit global warming to 1.5°C and sectors. Assumes that we limit global warming to halt significant global through stringent climate we limit global warming to below 2°C gradually warming. Assumes that we policies and innovation, to 1.5°C by 2050 but increasing the stringency meet Nationally Determined reaching global net zero with higher costs due to of climate policies, giving Contributions (NDCs)<sup>15</sup> CO<sub>2</sub> emissions by around divergent policies introduced a 67% chance of limiting which includes all pledged 2050. Both physical and across sectors<sup>14</sup> leading global warming to below targets even if not yet transition risks are relatively to a quicker phase out of 2°C. Both physical and backed up by implemented subdued. oil use. Carbon prices are transition risks are relatively effective policies. Critical typically higher for a given subdued. temperature thresholds temperature outcome. are exceeded leading to severe physical risks and irreversible impacts like sealevel rise.

<sup>&</sup>lt;sup>12</sup> REMIND was developed by the Potsdam Institute for Climate Impact Research (PIK) to analyse the future implications of interactions between energy, land-use, economy and climate systems. REMIND uses a general equilibrium model with perfect foresight, meaning the model can anticipate changes happening over the modeling time horizon, to simulate the interactions between the various systems inside a closed economy.

The REMIND model is made up of four different components: a core macroeconomic-energy model called REMIND; a second model, MAgPIE, that handles land use and agricultural variables and effects; a third model, LPJmL, that handles vegetation variables and effects and is linked to MAgPIE; and finally a climate model, MAGICC, that accounts for changes in climate-related variables. All of these models are interlinked and REMIND allows for feedback loops between the agriculture model MAGICC.

<sup>&</sup>lt;sup>13</sup> This is a group of Central Banks and Supervisors willing, on a voluntary basis, to exchange experiences, share best practices, contribute to the development of environment and climate risk management in the financial sector, and to mobilise mainstream finance to support the transition toward a sustainable economy. Its purpose is to define and promote best practices to be implemented within and outside of the Membership of the NGFS and to conduct or commission analytical work on green finance.

<sup>&</sup>lt;sup>14</sup> Therefore, carbon prices vary across sectors

<sup>15</sup> A climate action plan to cut emissions and adapt to climate impacts. Each Party to the Paris Agreement is required to establish an NDC and update it every five years.

The results below describe the expected changes to the value of the fund and comparator benchmark on a 15-year forward looking time horizon:

Scenario: REMIND NGFS 1.5°C Orderly	Climate VaR Contribution	Comparator benchmark
Transition Climate VaR – Policy	-3.8%	-13.0%
Transition Climate VaR – Technology	+2.5%	+1.8%
Physical Climate VaR	-8.6%	-13.1%
Aggregated Climate VaR	-9.9%	-24.3%

Scenario: REMIND NGFS 1.5°C Disorderly	Climate VaR Contribution	Comparator benchmark
Transition Climate VaR – Policy	-5.3%	-20.0%
Transition Climate VaR – Technology	+4.2%	+3.2%
Physical Climate VaR	-8.6%	-13.1%
Aggregated Climate VaR	-9.7%	-29.8%

Scenario: REMIND NGFS 2°C Orderly	Climate VaR Contribution	Comparator benchmark
Transition Climate VaR – Policy	-0.8%	-3.4%
Transition Climate VaR – Technology	+1.2%	+0.6%
Physical Climate VaR	-8.6%	-13.1%
Aggregated Climate VaR	-8.2%	-15.9%

Scenario: REMIND 3°C Hot House	Climate VaR Contribution	Comparator benchmark
Transition Climate VaR – Policy	-0.5%	-2.2%
Transition Climate VaR – Technology	+1.0%	+0.4%
Physical Climate VaR	-8.6%	-13.1%
Aggregated Climate VaR	-8.1%	-14.9%

Source: MSCI as at 31 December 2022. Physical Climate VaR run using MSCI's aggressive scenario.

Comparator benchmark: 50% MSCI World, 25% FTSE All-Share Index, 12.5% Bloomberg Barclays Global Aggregate Corporate Unhedged GBP, 12.5% Bloomberg Barclays Sterling Aggregate Unhedged GBP.

The CVaR analysis shows that the fund is well positioned for the low carbon transition relative to the comparator benchmark. MSCI has identified Extreme Heat and Flooding as a risk for some of the fund's holdings where they have a large property or infrastructure footprint. The results from this report have prompted further analysis by the team.

Although the team do not currently leverage this complex and evolving data in day-to-day investment decisions, these metrics provide insight on the possible climate-related financial risks that may be incurred by investors should its underlying assumptions suddenly occur.

# **ESG INTEGRATION AT JANUS HENDERSON**

Global environmental challenges such as climate change, biodiversity loss and pollution, and societal issues such as wealth and income inequality, access to education and healthcare, and cyberwarfare represent substantial long-term material risks to investor portfolios. We believe integrating financially material ESG considerations into our investment decisions and stewardship processes allows us to better manage these risks to achieve the best outcomes for our clients.

## ESG and financial materiality

'Materiality' describes the financial impact that is attributed to specific ESG factors. An ESG issue is material if it affects (or could affect) the future value of a company. Which ESG issues are financially material can vary significantly between companies and industries.

At the heart of ESG integration is the simple idea that evaluating and understanding a company through both traditional financial analysis and ESG financial materiality analysis allows for a more complete perspective of future performance than either alone.

Importantly, ESG analysis is not about what a company is doing today, but about the future. Our research focuses on how a company is managing ESG risks and opportunities and the impact on future cash flows or valuation – the same as for traditional financial analysis.

# ESG integration in practice

Janus Henderson generally applies an *integrated approach*, *i.e. the consideration of E, S, and G factors that may directly influence the long-term financial success of a company*. We believe this helps us deliver better investment returns for our clients.

For actively managed portfolios, ESG integration can help investors maximise risk-adjusted returns. Some asset owners want to invest for a purpose beyond just financial outcomes; for these clients asset managers offer a range of ESG-focused strategies – an ESG-objectives alongside a financial objective.

Our approach to ESG integration has been crafted to be thoughtful, practical, research-driven, and forward-looking.

We believe a critical enabler of fulfilling our fiduciary duty to our clients includes integrating financially material ESG factors into our investment decisions, as we do other financially material factors, and acting as effective stewards of their capital." Michelle Dunstan, Chief Responsibility Officer

When evaluating a company, we think about its products and services, its behaviour, conduct, supply chain management, and other considerations in running the business currently and into the future.

# ESG in our investment process

Leveraging our differentiated research on financially material ESG themes from our central Responsibility Team and investment teams is integral to the generation of actionable investment insights. We share the research and views of our investment teams through articles, videos, and white papers on our website.

We engage with our portfolio companies to conduct research for insight, but also for action, to help these companies create long-term value by encouraging companies to better manage financially material ESG risks and opportunities.

Such research is integral to Janus Henderson's DNA and can help us generate persistent long-term returns over time.

#### Investment **Idea Generation** Research Engagement Stewardship Decision Identify key ESG Develop proprietary Engage for insight Integrate financially Continue engaging controversies that and differentiated material ESG Engage for action Incorporate material could drive cash point of view information to inform ESG issues into flows, valuation, cost and enhance security Determine impact proxy voting of capital, etc. selection and decisions portfolio construction

Source: Janus Henderson Investors.

# MEET THE TEAM

The team is made up of investment professionals with 125+ years of combined experience.



### Hamish Chamberlayne, CFA - Portfolio Manager

Hamish Chamberlayne is Head of Global Sustainable Equities at Janus Henderson Investors and is responsible for managing a suite of global and regional sustainable equity strategies. He was an investment manager with the firm from 2012 and joined Henderson as an investment analyst in 2011 from Gartmore, where he was an equity analyst with the global equity team. Prior to this, from 2004 to 2007, Hamish worked as a senior auditor at PricewaterhouseCoopers. Hamish graduated with a master's degree in chemistry from New College, Oxford University. He holds the Chartered Financial Analyst designation and is a qualified accountant. He has 20 years of financial industry experience.



### Andrew Jones - Portfolio Manager

Andrew Jones is a Portfolio Manager on the Global Equity Income Team at Janus Henderson Investors. Prior to joining Henderson in 2005 as a portfolio manager on the UK Equities Team, Andrew worked as a fund manager at Invesco Perpetual, where he started his career in 1995. Andrew graduated with a BA degree (Hons) in economics from Queens' College, Cambridge University. He holds the Securities Institute Diploma and has 28 years of financial industry experience.



### Tim Winstone, CFA - Portfolio Manager

Tim Winstone is a Corporate Credit Portfolio Manager at Janus Henderson Investors, a position he has held since joining Henderson in 2015. Prior to Henderson, he was an executive director, senior fixed income portfolio manager and part of the global credit team at UBS Global Asset Management. He began his career as a portfolio assistant at Thesis Asset Management and has worked in global credit since 2004. Tim earned a BSc degree (Hons) in mathematics from the University of Bristol. He holds the Chartered Financial Analyst designation and the Investment Management Certificate and passed the Regulation and Compliance unit of the CISI Diploma. He has 20 years of financial industry experience.



#### **Brad Smith** – Portfolio Manager

Brad Smith is a Portfolio Manager at Janus Henderson Investors. Prior to his appointment to portfolio manager, he was credit analyst and assistant portfolio manager at Janus Henderson Investors, positions he held since 2010 and 2019, respectively. Brad received his bachelor of arts degree in economics and international studies from the University of Richmond, graduating magna cum laude and with honours in the economics program and a master of science degree in international relations from the London School of Economics. He has 13 years of financial industry experience.



#### Jane Shoemake, ASIP - Client Portfolio Manager

Jane Shoemake is a Client Portfolio Manager on the Global Equity Income Team at Janus Henderson Investors. Prior to joining Henderson in 2006, Jane spent two years at Threadneedle Investments and five years with J.P. Morgan Asset Management, where she was responsible for a wide range of UK clients. Her career began at Allianz Global Investors in 1994 as a global equity fund manager. Jane holds a first class BEng degree (Hons) in civil engineering from Warwick University. She is an Associate of the CFA Society of the UK, attaining the ASIP qualification in 1997, and is a director of Janus Henderson Capital Funds plc as well as a member of the Comic Relief Investment Advisory Group. Jane has 29 years of financial industry experience.



### Callum Rushforth, CFA – Associate Client Portfolio Manager

Callum Rushforth is an Associate Client Portfolio Manager on the Global Equity Income Team at Janus Henderson Investors, a position he has held since 2022. Before this, he was a senior UK sales executive from 2021. He joined the firm in 2018 as a graduate trainee. Callum began his career as an equity communications specialist at Fidelity Investment Limited in 2016. Callum received a first-class bachelor's degree (Hons) in business administration from the University of Bath. He holds the Investment Management Certificate (IMC), the CFA Institute Certificate in ESG Investing, and the Chartered Financial Analyst designation and has 7 years of financial industry experience.



### Tim Brown - Head of UK Product Specialists

Tim Brown is Head of UK Product Specialist at Janus Henderson Investors and responsible for sector and thematic equity products. Prior to joining the firm in 2018, he spent eight years at Vanguard Asset Management in several roles, most recently as a product specialist focused on active equity funds. Tim earned a BSc degree (Hons) in business and finance from Royal Holloway University of London. He holds the CFA Institute Certificate in ESG Investing and has 14 years of financial industry experience.

# MEET THE TEAM (CONTINUED)

### Global Research Network

#### eQuantum

Proprietary research tool

### Regional Investment Teams

- Global Equity
- Global Income
- US
- Asia Pacific
- UK/Europe Equities
- Asia Pacific
- Emerging Markets

#### Centralised Research

 34 sector specialists with an average of 17 years of financial industry experience  20 credit analysts with an average of 16 years experience

### **Specialised Research**

- Technology
- Property
- Global Natural Resources
- Global Life Sciences and Biotech
- Global Sustainable
- Absolute Return

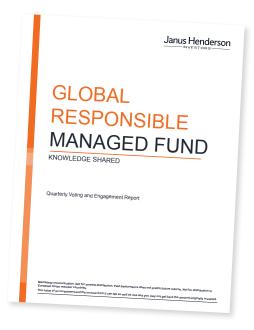
### Risk Management Network

- Responsibility Team
- ESG Oversight Committee
- Front Office Governance & Risk Committee
- Investment Performance & Risk Committee
- Financial Risk Team
- Investment Compliance

# **ADDITIONAL RESOURCES**

# Quarterly voting & engagement report

This report outlines the key engagements with companies held in the portfolio over the quarter and votes against management.



# Investment principles

The report provides details of the fund's investment philosophy, environmental and social avoidance criteria, ESG integration, company engagement and voting approach.



# **APPENDIX**

Table 1: Portfolio aggregation methodologies

Aggregation Methodology	Calculation	Description
Total	$\sum_{n}^{i}_{metric_{i}}$	The reported metric summed across all companies in the portfolio.
Investor Allocation	$\sum_{n}^{i} ($	The reported metric multiplied by investor allocation and summed across all companies in the portfolio. Investor allocation is calculated by dividing total shares held in the company across funds by total shares outstanding.
Investor Allocation (per \$m)	shares held;  total shares outstanding;  value of all investments (\$m)	The reported metric multiplied by investor allocation and summed across all companies in the portfolio. Investor allocation is calculated by dividing total shares held across funds by total shares held. This is then divided by the value of all investments in \$m.
Weighted Average	$\sum_{n=0}^{\infty} \frac{value \ of \ investment_{i}}{value \ of \ all \ investments \ (\$m)} \ x \ metric_{i})$	The sum of the portfolio weights multiplied by the reported metric.
Percentage Sum	value of investment; value of all investments (\$m)	The sum of the portfolio weights.
Count	$\frac{\sum_{n}^{i} metric_{i}}{n}$	A count of the number of occurrences divided by the number of companies.

Where i represents the individual data point for the holding, n represents the total number of holdings for which the data is summed.

# **GLOSSARY**

Aggregated Climate Value at Risk (VaR)	The Aggregated Climate VaR is the sum of the Aggregated Policy Risk Climate VaR, the Technology Opportunity Climate VaR, and the Physical Risk Climate VaR with the selected transition and physical risk scenarios. The Climate VaR metric, expressed as a positive or negative percentage reflects a change from a portfolio's current valuation, assesses how an investment portfolio could be impacted by climate policy risk and extreme weather (physical climate risks), and benefitted by a low-carbon technology transition.
Carbon footprint	The sum of GHG emissions generated per amount invested by the Fund.
Carbon Intensity (CI)	The amount of carbon by weight emitted per unit of energy consumed.
CO <sub>2</sub> e	Carbon dioxide equivalent is a term for describing different greenhouse gases in a common unit. For any quantity and type of greenhouse gas, $CO_2$ e signifies the amount of $CO_2$ which would have the equivalent global warming impact.
Emissions, Scope 1	Direct emissions from company-owned and controlled assets.
Emissions, Scope 2	Indirect emissions from the generation of purchased energy, from a utility provider.
Emissions, Scope 3	Avoided emissions, (also referred to as Scope 4, comparative, substituted emissions, climate positive, or carbon handprint), are those GHG emission reductions that occur outside of a product's life-cycle or value chain, but result from the use of that product or service. Usually, they are measured relative to a comparative product or service.
ESG Environmental, Social and Governance (ESG)	Aspects of a company's operations, products or services which may be financially material to the business and/or impact the long-term sustainability of an investment. Environmental factors include climate change, energy efficiency, resource depletion, and water and waste management. Social factors include employee and community relations, diversity, quality of life, enhancements in knowledge, and advances in supportive technology for improved sustainability. Governance factors include mitigating risks such as bribery and corruption, ensuring board independence and diversity, executive pay, accounting standards and shareholder rights, and positively influencing corporate behaviour.
ESG integration	The practice of systematically incorporating material environmental, social and governance information alongside traditional financial metrics into the investment analysis and decision process with the aim of improving the long-term financial outcomes of portfolios.
Greenhouse Gas	Also known as GHG, these are gases in the Earth's atmosphere that causes the 'greenhouse effect', which traps the suns radiant heat. The primary greenhouse gases in Earth's atmosphere are water vapor, carbon dioxide, methane, nitrous oxide, and ozone. Human activity is increasing the emission of these gases and resulting in increased greenhouse effect, warming average temperatures and causing changes to climates and weather patterns.
Implied Temperature Rise	The Implied Temperature Rise metric provides an indication of how companies and investment portfolios align to global climate targets. Some institutional investors would like to understand if their portfolios are 2°C aligned, referring to the Intergovernmental Panel on Climate Change (IPCC) goal of limiting the global temperature increase in the year 2100, compared to pre-industrial levels, to 2°C. Another important target is the 1.5°C limit, which was also popularised by the Paris Agreement. This limit has been advocated strongly by small island states, which are most threatened by sea level rise in a world with temperatures exceeding a rise of 1.5°C.
Institutional Shareholder Services (ISS)	Institutional Shareholder Services is a leading provider of corporate governance and responsible investment solutions.
MSCI	MSCI is a leading provider of critical decision support tools and services for the global investment community.
MSCI World	A broad global equity index that represents large and mid-cap equity performance across 23 developed markets countries. It covers approximately 85% of the free float-adjusted market capitalisation in each country and MSCI World Index does not offer exposure to emerging markets.
Network of Central Banks and Supervisors for Greening the Financial System (NGFS)	This is a group of Central Banks and Supervisors willing, on a voluntary basis, to exchange experiences, share best practices, contribute to the development of environment and climate risk management in the financial sector, and to mobilise mainstream finance to support the transition toward a sustainable economy. Its purpose is to define and promote best practices to be implemented within and outside of the Membership of the NGFS and to conduct or commission analytical work on green finance.
Nationally Determined Contributions (NDCs)	A climate action plan to cut emissions and adapt to climate impacts. Each Party to the Paris Agreement is required to establish an NDC and update it every five years.
Net zero	Achieving a balance between greenhouse gases emitted into the atmosphere and those removed from the atmosphere.
Physical Risk	Climate-related physical risk affects all company facilities; to some degree. Particularly at risk are those enterprises with locations in climate sensitive regions, or with longlived fixed assets. Physical climate risk scenarios are essential in identifying the potential change in extreme weather caused by increased levels of GHG emissions in the atmosphere. Physical risk scenarios model how the physical aspects of the climate system changes including variables such as temperature rise, seal level rise, and changes to the frequency and severity of specific extreme weather events. The physical risk analysis assesses changes in global temperatures, precipitation levels as well as flooding and cyclones due to climate change by relying on the both historical data of observed extreme weather and forward looking climate models. Physical risks and opportunities can be aggregated across company facilities, to issuer level, to portfolio level and capture both acute and chronic risks with 10 hazards being currently modelled.

# GLOSSARY (CONTINUED)

Policy Risks	The transition to a low-carbon economy will be accompanied by extensive regulatory and policy changes across the globe. Using a hybrid top-down and bottom-up methodology, MSCI ESG Research calculates the potential risks from future climate change policies. Direct GHG Emissions (Scope 1), Electricity Use (Scope 2), and Value Chain GHG Emissions (Scope 3) are calculated separately. Country-level greenhouse gas (GHG) emission reduction targets proposed in the Nationally Determined Contributions (NDCs) of the Paris Agreement are modelled. Country emission reduction targets are broken down into sector level targets and based on MSCI ESG Research's production facilities location database, sector emission reduction targets are then assigned to each company's production facilities. Using scenario production and consumption electricity data and estimates of the costs passed through to final electricity users, MSCI ESG Research calculates the potential costs related to electricity consumption in a transition scenario. Scope 3 emissions can be separated into upstream and downstream elements. A company's exposure to upstream emissions can add input costs whereas downstream emission exposure can lead to a company's loss in market share due to shifts in demand. Therefore, both sides of the supply chain are assessed independently to compute a company's policy risk. Policy costs are aggregated to issuer and portfolio level. The metric incorporates double counting considerations.
Science Based Targets initiative (SBTi)	The Science Based Targets initiative defines and promotes best practice in emissions reductions and net-zero targets in line with climate science. Provides technical assistance and expert resources to companies who set science-based targets in line with the latest climate science.
Task Force on Climate- related Financial Disclosures (TCFD)	Climate-related financial disclosure recommendations designed to help companies provide better information to support informed capital allocation. The disclosure recommendations are structured around four thematic areas that represent core elements of how companies operate: governance, strategy, risk management, and metrics and targets.
Taskforce on Nature-related Financial Disclosures (TNFD)	The TNFD aims to build a risk management and disclosure framework that can be used by organisations of all sizes in all jurisdictions to identify, assess, manage and disclose nature-related dependencies, impacts, risks and opportunities.
Total greenhouse gas emissions	The most recent aggregate GHG emissions of the company based on reported or estimated Scopes 1 and 2, and estimated Scope 3 emissions.
Weighted Average Carbon Intensity (WACI)	The weighted average of individual company intensities (operational and first tier supply chain emissions over revenues), weighted by the proportion of each constituent in the index.
The United Nations Global Compact's (UNGC)	Ten Principles are derived from the Universal Declaration of Human Rights at Work, the International Labour Organisation's Declaration on Fundamental Principles and Rights at Work, the Rio Declaration on Environment and Development and the United Nations Convention Against Corruption. For further information, visit https://www.unglobalcompact.org/what-isgc/mission/principles. For more information on issues covered visit https://www.unglobalcompact.org/library.



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