

Excellence in climate change reporting

A review of leading UK companies

Building Public TrustNovember 2020



A message from Alan McGill



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This year's Building Public Trust Awards mark the first year that we have reviewed climate change reporting across the FTSE 350, public interest entities (PIEs), and inbound companies, producing a report which sits alongside our review of sustainability reporting. Unfortunately, circumstances have prevented us from hosting an awards ceremony this year, but we hope that through this report, we can provide the insights and expertise which will help your company to progress on the journey towards better climate change reporting.

Despite the pandemic, awareness and concern over climate change continues to grow, with increasing numbers of companies and organisations making net zero commitments and setting science-based targets. The conversation has clearly moved on from whether anthropogenic climate change is real, to what we should do about it, in terms of both mitigating the impacts and improving our resilience. The science shows that in order to avoid catastrophic impacts of climate change, carbon emissions need to halve over the course of the next decade. This level of urgency has been reflected by an increased focus from companies on climate change, in part driven by a societal expectation that the corporate world needs to play its part.

Organisations are expected to not only minimise their negative impacts but to also contribute positively, and shareholders expect the various physical and transitional risks to be addressed.

We believe that effective climate change reporting is the foundation of this undertaking. This year New Zealand were the first country to make climate change reporting under the 'Task Force on Climate-related Financial Disclosure' (TCFD) framework mandatory for certain large financial institutions with the United Kingdom expected to follow suit within 2 years. This review has been conducted under the framework of the TCFD, which is the leading industry standard for assessing climate-change reporting.

As a part of our review we considered over 470 organisations and used our reporting experts to produce criteria by which to judge the level of reporting.

In line with the TCFD our review has been categorised into 'governance,' 'strategy,' 'risk management' and 'metrics and targets.' In each section we have provided an analysis of the quality of the reporting, tips for how to make your reporting more effective, and illustrated examples of best practice.

A message from Jon Williams



Jon Williams

PwC Partner and member of the Task Force on Climate-related Financial

Disclosures

We are pleased to see that implementation of the recommendations from the Task Force on Climate-related Financial Disclosure (TCFD) has increased since last year, with almost twice as many (1,500) companies officially supporting the recommendations, as well as over 100 regulators and government entities, including the UK government.

We have aligned our review of FTSE 100 companies with the 11 recommendations of the TCFD. This assessment complements our input into the TCFD's review of about 1,700 large companies over a 3 year period, assisted by artificial intelligence, to understand TCFD reporting on a global scale.

Our analysis supported the results showing that the Energy sector had the highest percentage of disclosure. Full results can be found in the recently released TCFD 2020 Status Report.

Key findings from the TCFD 2020 Status Report

- Financial institutions responsible for financial assets of over \$150 trillion have supported the TCFD and are encouraging businesses to report in line with the TCFD guidelines.
- Companies' disclosure of the potential financial impact of climate change on their business strategies, and financial planning remains low.
- The percentage of companies disclosing the resilience of their strategies, taking into account different climate-related scenarios, was significantly lower than that of any other recommended disclosure.
- Expert users find the impact of climate change on a company's business and strategy as the 'most useful' for decision-making.

Support and guidance is available on the TCFD website: https://www.fsb-tcfd.org/

Executive summary and key messages



There is a promising proportion of companies disclosing where the responsibility for climate change sits in their organisation, with more than half providing this information at both a board and executive level. However, less than a third give examples of how climate change has affected strategic decisions or even stated that climate change has been discussed at board meetings during the year. Disclosure of the board's ability to consider climate change is also poor, with less than a fifth of companies either stating that at least one board member has climate change-related expertise, or that related training has taken place.

Strategy

Strategy is a relatively strong section with over two thirds of the companies identifying physical and transition risks over different time horizons, although only 40% discuss the related impacts which is likely the more important aspect to the users of the report. Encouragingly, almost 80% have committed to net zero and over 33% have conducted scenario analysis, including a 'well below 2 degrees' scenario.

A spotlight on scenario analysis

40-60% of the companies had performed scenario analysis across most of the 6 industry groups analysed, with only 'Energy' and 'Materials and Buildings' outliers with 86% and 29% respectively. Scenario analysis is an integral part of climate change reporting due to the uncertainties surrounding climate predictions. Furthermore, not only is the state of the climate and the impacts of climate change at any point in the future uncertain, but the pathway to reach that point is also unknown – might the temperature increase and net zero transition be smooth or stepped, early or late?

A spotlight on net zero

Per the 2015 Paris Agreement, in order to keep the increase in temperature from the pre-industrial era to well under 2 degrees, global emissions must be 'net zero' by 2050. Many companies have set a net zero target but have likely done so without realising the personal benefit this could afford. It is important to realise that by setting (and reaching) a net zero target, companies can greatly mitigate the transition risks presented by climate change, thereby benefiting not only society at large, but also their own stakeholders.

Risk management

Overall, risk management is reported poorly. Following from most companies disclosing risks, to less than half considering the impacts, only 17% put these impacts into a financial context and even fewer (14%) disclose how they plan to mitigate the risks. Half identify climate change as an emerging or current risk but only a third have integrated climate risk management into their overall risk management process, which is crucial to provide the focus required.

Metrics and targets

Most companies disclose their scope 1, 2 and 3 emissions which is positive given the difficulty in assessing and measuring the latter. However, only a third produced sophisticated metrics which went much beyond simply reporting GHG emissions. Only a third have science-based targets but given the lengthy certification process, many more are likely to disclose SBTs in the near future. Half of the companies disclose progress against their targets.

About this report

This report contains the results of our analysis, expert guidance to improve your reporting and a selection of leading examples that we at PwC have identified following our review of annual reports, sustainability reports and associated websites of the FTSE 350, PIEs and selected inbounds. The report is structured as follows:

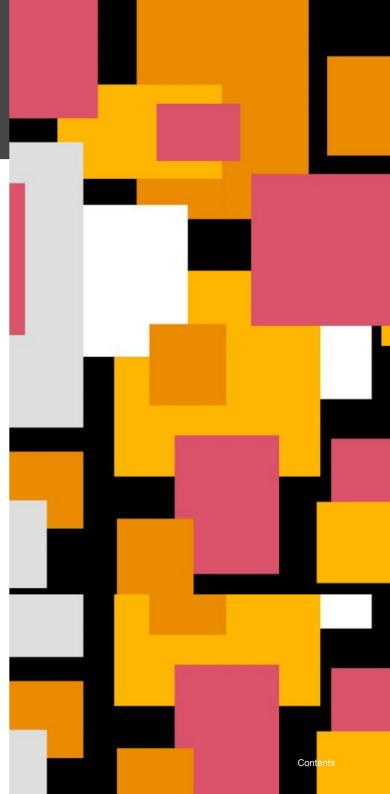
- A summary of what should be reported and why, set in the framework of the TCFD guidance
- Basic, intermediate and advanced tips for improving your reporting
- A quantitative analysis of the performance of the companies scored as a part of this review
- An in-depth exploration of company performance for each of the 4 categories, with each sub-divided into further sections. Each subsection includes:
 - Key findings and analysis by industry
 - Results summary including reporting tips
 - Annotated best practice examples

If you would like more personalised advice on your own reporting, do get in touch with us – our contact details are on the back page. You can also find more examples of good practice by visiting our <u>website</u>.



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Good practice climate change reporting based on the TCFD guidance

		What	Why
Governance	Board-level knowledge and training	Provide details of the current competencies of board members in relation to climate change, and any past or future training on the subject matter.	This allows the reader to understand the level of climate-related expertise at board level, as well as the proactiveness of the board to upskill themselves.
	Board oversight on climate change	Document the governance structure regarding board level responsibility for climate change. If relevant, disclose that climate change is on the agenda at board meetings and examples are provided for how climate-related risks/opportunities have affected strategic decisions.	This enables the reader to understand how and by whom climate change is considered at board level, and shows them how this is affecting decision making.
	Management oversight on climate change	Explain the responsibility for climate change at executive level and if applicable, disclose that executive remuneration is linked to climate-related objectives.	This enables the reader to understand how and by whom climate change is considered at an executive level and demonstrates to them how seriously the issue is being taken by linking climate-related objectives to executive remuneration.
Strategy	Identification of material risks and opportunities	Identify and disclose physical and transitional risks and opportunities, and do so with an associated time horizon.	This provides detail on the specific impacts of climate change on your business and contextualises them in the short, medium and long-term.
	Disclosure of impacts on and by the business	Identify the impacts of climate-related risks and opportunities on the organisation's business, strategy and financial planning and furthermore, disclose the impact of the organisation on the climate.	This makes it clear what the impact of climate-related risks and opportunities could be, and also to what extent the organisation itself is contributing to climate change.
	Business resilience to climate-related risks and opportunities	If applicable, disclose the organisation's commitment to net zero and describe the scenario analysis performed.	This illustrates the organisation's commitment to fighting climate change and also shows its preparedness in considering its resilience under multiple future scenarios.
Risk Management	Risk identification, assessment and management	Describe the process for identifying, assessing and managing climate-related risk and impact. Provide details of the mitigation/management techniques used.	This allows the reader to understand the process behind the disclosures your company has made with regards to strategy and risk. The management techniques enable the reader to understand how the organisation is mitigating the risks it is presented with.
	Engagement with stakeholders	Document engagement with stakeholders beyond the organisation's operations regarding the climate change agenda.	This demonstrates to the reader that a holistic approach is being taken with regards to tackling the issue of climate change, and the extent to which the organisation is looking beyond its own operations.
	Integration with current risk process	Disclose how the climate-related risk (CRR) management process is integrated into the overall risk management process.	This illustrates how the issue of climate risk is now considered an integral part of the overall risk management process.
Metrics and Targets	Disclosing climate-related metrics	Disclose a range of climate and sustainability-related metrics, including GHG emissions.	This will provide the reader with the quantitative detail of the company's impact on the environment and climate, as well as showing how this has changed through time.
	Setting climate-related targets and reporting on performance	Disclose the targets (and related progress) the company uses to manage climate-related risks and opportunities.	This will provide the reader with information on how proactive the company is being with regards to reducing its climate impact, and whether they are set to reach their targets.

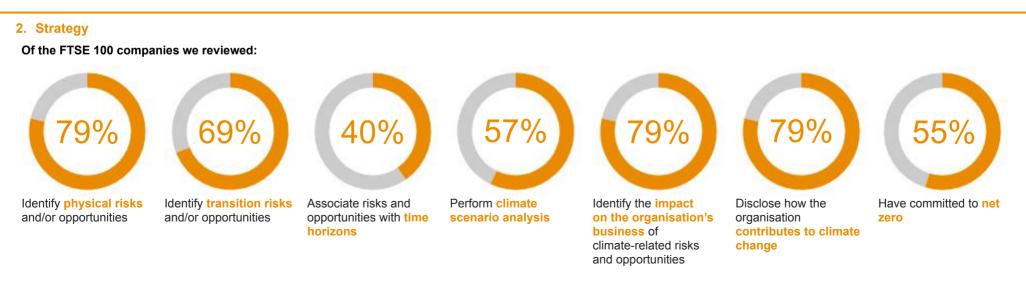
Tips to make your reporting more effective

	Basic reporting tips	Intermediate reporting tips	Advanced reporting tips
G	Briefly mention board member climate-related competencies, and state that future training is required.	Outline a more detailed training plan with a timeline and, if applicable, discuss previous training completed	Provide an extensive narrative concerning board member competency in relation to climate change.
	Mention board level responsibility for climate change and state that it is included as an agenda item in board meetings.	Provide detail on the individual/committee responsible for climate change at board level. Disclose the number and frequency of board meetings with climate change on the agenda, and exemplify how this has affected strategic decisions.	Provide multiple detailed examples of how the assessment of climate-related risks/opportunities have affected strategic decisions at board level.
	Document how climate-related responsibilities have been assigned to executive-level committees or individuals.	Explain the associated organisational structure and how management reports to the board on these matters. Mention that executive remuneration is linked to climate-related objectives.	Provide detailed disclosure on how executive remuneration is linked to climate-related objectives e.g. carbon emissions targets, KPIs, time frames etc.
S	Disclose the physical and transition risks and opportunities and associate them with different time horizons.	Provide a materiality assessment of the risks and opportunities identified and ensure that the associated time frames align with the long-term nature of climate change (i.e. consider time frames >10 years).	Detail the financial impact (i.e. in terms of cost) and align the time horizons considered with the Paris Agreement i.e. 2030 and 2050.
	Identify climate-related impacts and provide a brief discussion over the impact of the organisation on the climate.	Provide a detailed discussion on the impact of the organisation on the climate.	Link the climate-related impacts identified to financial performance indicators e.g. costs, revenue, liabilities, assets.
	Disclose that the organisation has made a net zero commitment.	Explain the detail of the net zero strategy. Disclose the consideration of, and the resilience of the organisation to, one possible scenario.	Disclose the consideration of, and the resilience of the organisation to, at least 2 different scenarios, one being <2 degrees C and one being a stressed scenario.
RM	Disclose how the identification, assessment and management of risks and impacts is conducted for your direct operations. Provide details on how these risks are mitigated.	Ensure that the discussion over identification, assessment and management of risks and impacts covers the entire value chain.	Discuss how addressing the financial impact of climate-related risks and opportunities is built into your impact assessment process. Ensure that the financial impacts of the mitigation methods are captured.
	Provide disclosure of engagement with at least one type of stakeholder.	Show that multiple stakeholders have been engaged with.	Improve the narrative to provide high levels of detail concerning the initiatives which have been disclosed.
	If applicable, disclose the operational linkage of climate-related risk management into the overall risk management process.	Include a narrative explaining how this integration took place.	If applicable, ensure that it is detailed that there is full integration into the overall risk management process, including on a financial level.
M&T	Report predominantly straightforward metrics such as Scope 1 and 2 emissions and those relating to the direct operations of the company.	Increase the sophistication of the metrics reported by providing comparatives, normalised metrics and Scope 3 emissions data.	Incorporate metrics concerning the wider supply chain and provide a financial context, for example, by using cost-related metrics.
	Produce targets accompanied by a qualitative description of progress.	Include targets set over different timeframes, provide quantitative progress and add accompanying analysis.	Ensure that any GHG emissions reduction targets are science-based (and therefore in line with the Paris Agreement). Extend the accompanying narrative.

Overview of analysis

Our analysis of FTSE 100 companies yielded the following statistics across the range of criteria considered by the Climate Change reporting award.

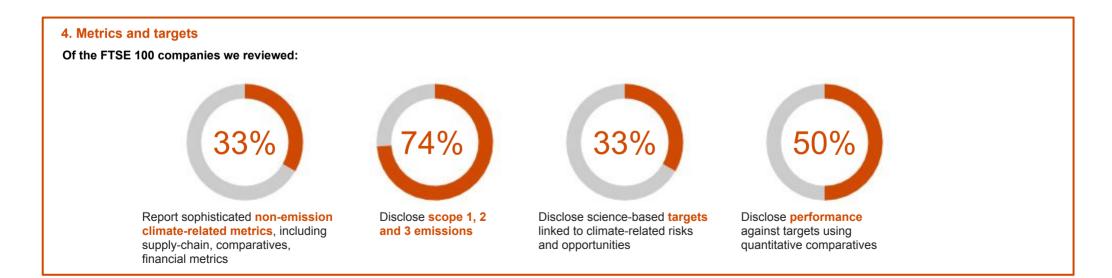




Overview of analysis

Our analysis of FTSE 100 companies yielded the following statistics across the range of criteria considered by the Climate Change reporting award.







Governance

Key findings from Governance scoring

In 2017, the TCFD recommended that companies disclose the organisation's governance around climate-related risks and opportunities.

Of the FTSE 100 companies that we assessed, nearly all companies outline the responsibility for climate change at board level, however very few outline the competencies of any board members in relation to climate change or reference any plan that training has or will take place. Most companies describe responsibility for climate change at executive level, but much fewer link remuneration of management to climate change.

Board-level knowledge and training



Of the FTSE 100 companies we assessed:

- 10% described the competencies of one or more board members in relation to climate change
- Over one quarter identified a need for training of board members or have already carried out training
- Best performing industry group: Financial Services
- Worst performing industry group:
 Transportation

Board oversight on climate change



Of the FTSE 100 companies we assessed:

- Over three quarters mentioned a Board level committee with climate change oversight
- One quarter disclosed the frequency of Board meeting where climate change is on the agenda
- Nearly 60% give at least one example of how climate-related risks and opportunities affect strategic decisions made at Board level
- Best performing industry group: Energy
- Worst performing industry group:
 Agriculture, Food, and Forest Products (including FMCG)

Management oversight on climate change



Of the FTSE 100 companies we assessed:

- Half described management's climate-related responsibilities and how management reports to the Board
- Over one quarter mentioned executive remuneration linked to climate-related objectives
- Best performing industry group:Transportation
- Worst performing industry group: Materials and Buildings

Board-level knowledge and training

Provide details of the current competencies of board members in relation to climate change, and any past or future training on the subject matter.

This allows the reader to understand the level of climate-related expertise at board level, as well as the proactiveness of the board to upskill themselves.

Tips to make your reporting more effective:

Basic

Briefly mention board member climate-related competencies, and state that future training is required.

Intermediate

Outline a more detailed training plan with a timeline and, if applicable, discuss previous training completed.

Advanced

Provide an extensive narrative concerning board member competency in relation to climate change.

Of the FTSE 100 companies we reviewed:



Describe the climate change competencies of Board members



Disclose that

Board training
has taken place



We liked how HSBC gave significant detail over the specific activities of the board, particularly regarding climate change. Furthermore it was disclosed that climate change training took place during the year.

HSBC Annual Report, pg. 168 & 171

Board activities during 2019

The activities of the Board were structured to support the development of the Group's strategy and to enable the Board to support executive management on its delivery within a transparent governance framework.

Business performance and strategy

The Board is responsible for the monitoring and delivery of the Group's strategy. In 2019, the Board reviewed the progress against the strategic priorities set in June 2018 and will oversee the implementation of the new business update approved in 2020.

As a matter of course, the Board considered and approved key standing items such as the long-term viability statement and certain acquisitions, mergers and disposals. Additional sessions requested by the Group Chairman ensured that the Board considered non-standing items, which included sustainable finance and climate change. A deep dive session on climate change was completed by the Board in July 2019. This session considered the potential impacts of climate change on the business and the climate-related risk initiatives progressing within the Group. It was confirmed that climate-related risk would remain a thematic issue within the Group's 'Top and emerging risk' report. Further details can be found on page 79 and in the ESG Update.

The Board managed the process involving the departure of the Group Chief Executive and the appointment of an interim Group Chief Executive on 5 August 2019. Further details can be found on page 171.

Severn Trent Annual Report 2019, pg. 83

Topics	Olivia Garfield	James Bowling	Christine Hodgson	Kevin Beeston	Philip Remnant	John Coghlan	Dominique Reiniche	Angela Strank	Sharmila Nebhrajani
Strategy	•	•	•	•	•	•	•	•	•
M&A	•	•	•	•	•	•	•	•	10
Corporate finance/treasury		•	•	•	•	•	6):		•
Accounting		•	•	•	•	•	0.4	0	•
Regulation	•	•	•	•	•		0).		•
Technology/innovation	•	0	•	10	9	•	•	•	•
Customer	•		•	•	<u> </u>	To the	•	•	10
Brands	0	0	•	•	0	fg.	•	•	
Engineering	0			(b)	Ö).			•	
Utility sector	•	•	•	•	•	•	•	•	
Environmental science, including climate change		i Ç	•	(C	2.		φ1 <u>}</u>	•	170
People management	•	•	•	•		2	•	•	•
Commercial procurement	•	•	•	•	•		•	•	79
Construction/infrastructure delivery	•		9	•	P	9		•	
Large capital programmes	•	•	•	.0	0.1	•	•	•	. 6
Political affairs	•		•	•	•	•	•	•	•

"

We liked how Severn Trent provided a skills matrix for board members, which included climate change. Governance

Board training

Board oversight

Management responsibility

Strategy

Identification

Impact

Resilience

Risk management

Identification, assessment and management

Stakeholder engagement

Integration

Metrics and targets

Metrics

Targets and performance

Board oversight on climate change

Document the governance structure regarding board level responsibility for climate change. If relevant, disclose that climate change is on the agenda at board meetings and examples are provided for how climate-related risks/opportunities have affected strategic decisions.

This enables the reader to understand how and by whom climate change is considered at board level, and shows them how this is affecting decision making.

Tips to make your reporting more effective:

Basic

Mention board level responsibility for climate change and state that it is included as an agenda item in board meetings.

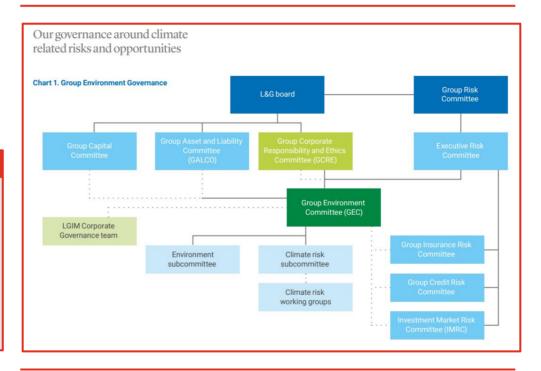
Intermediate

Provide detail on those responsible for climate change at board level. Disclose the number and frequency of board meetings with climate change on the agenda, and exemplify how this has affected strategic decisions.

Advanced

Provide detailed examples of how the assessment of climate-related risks/ opportunities have affected strategic decisions at board level.

Legal and General TCFD Report 2019, pg. 6



Of the FTSE 100 companies we reviewed:



Have a **Board-level committee** with climate
change oversight



Disclose the number/
frequency of Board
meetings with
climate change on
the agenda



Describe how climate risks/opportunities affect strategic decisions made at Board level

Severn Trent Annual Report 2019, pg. 79



We liked how Legal and General portray oversight of climate risk and how Severn Trent disclosed detail of climate-related discussion at board level.

Barclays ESG Report 2019, pg. 44

CLIMATE-RELATED FINANCIAL DISCLOSURES

Governance

Group governance of climate matters

The Barclays PLC (BPLC) Board sets the strategic direction and risk appetite of the Group and is the ultimate decision-making body for matters of Group-wide strategic, financial, regulatory or reputational significance. More detail about the Group's overall governance framework can be found on pages 17 to 20.

A key development during 2019 has been that oversight of social and environmental matters, including climate change, has been taken up by the Board, where previously it was overseen by the Board Reputation Committee. This change in governance confirms the importance placed on these topics. Areas considered by the board in 2019 included our strategy on green financing, our policy positions relating to carbon intensive industries and our commitments to aligning with the goals of the Paris Accord.

In addition we appointed the Group Chief Risk Officer as Senior Manager responsible for climate-related financial risk under the Senior Managers Regime.



For further information on governance of climate risk please refer to page 50.

Environmental and Social Impact Committee

Demonstrating the growing strategic importance of these issues, the Group Executive Committee created the Environmental and Social Impact (ESI) Committee in June 2019 to provide senior oversight and set the overall direction of Barclays' strategy to manage its broader social and environmental impacts. Chaired by the Group Chief Executive, with representation from business and function leadership, the Committee provides strategic management oversight, sets a firm-wide approach on key-topics and monitors execution against priorities.



TCFD Forum

This senior forum, chaired by the Global Head of Sustainability and ESG, with representation from business lines and function teams including strategy, risk, finance, treasury and compliance, was set up in 2017 to provide oversight and drive implementation of the TCFD recommendations and the Group's wider climate change strategy. The forum reports into ESI on Barclays' response to the issue of climate change, including; the approach to climate-related opportunities and risks within the bank; and ensuring public commitments on the TCFD recommendation are upheld.

Divisional sustainability coordination

The 2019 launch of the ESI has inspired the creation of multiple Sustainability Forums focused within specific business areas including Irwestment Banking, Corporate Banking and Retail and Business Banking. These forums advance and replace the work of the Barclays Green Banking Council, which was started in 2017. They operate in a targeted manner to drive client, employee and stakeholder engagement on environmental and climate change issues, whilst continuing to develop a leading product set to support our clients' transition to a low-carbon economy.

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We liked how Barclays illustrate a clear link between forums, executive committees and the Board. The existence of a TCFD specific forum is also positive.

Governance

Board training

Board oversight

Management responsibility

Strategy

Identification

Impact

Resilience

Risk management

Identification, assessment and management

Stakeholder engagement

Integration

Metrics and targets

Metrics

Targets and performance

Management oversight on climate change

Explain the responsibility for climate change at executive level and if applicable, disclose that executive remuneration is linked to climate-related objectives.

This enables the reader to understand how and by whom climate change is considered at an executive level and demonstrates to them how seriously the issue is being taken by linking climate-related objectives to executive remuneration.

Tips to make your reporting more effective:

Basic

Document how climate-related responsibilities have been assigned to executive-level committees or individuals.

Intermediate

Explain the organisational structure and how management reports to the board on these matters. Mention that executive remuneration is linked to climate-related o bjectives.

Advanced

Provide detailed disclosure on how executive remuneration is linked to climate-related objectives e.g. carbon emissions targets, KPIs, time frames etc.

Of the FTSE 100 companies we reviewed:



Describe how management reports to the Board on climate-related responsibilities



Describe how
executive
remuneration is linked
to climate-related
objectives

66

We liked how Rio Tinto disclose that executive remuneration is linked to the meeting of long-term climate change-related targets.

Rio Tinto Climate Change Report, pg. 10

Climate change governance and risk management

5/7

The Board met seven times in 2019 and covered climate change on five separate occasions. At the two strategy meetings (in April. and September 2019), the Board discussed the Group's long-term climate change ambition and options for operational emissions targets, having considered different abatement options and offsets. In November 2019, the Board further considered and agreed in principle the Group's long-term climate change ambition, 2030 emissions targets and the financing of our climate change initiatives.

Climate change is a topic of on-going discussion and analysis at the most seriol levels of management and by the Board. The Board approves our climate policy an sets the Group's ambition and emissions targets. The Sustainability Committee of the Board is responsible for monitoring performance against the targets and ensuring operational-level resilience. The Sustainability Committee also has oversight of key sustainability risk areas that may be related to climate change, such as biodiversity and water, including such as biodiversity and water, including

The Board also discussed industry association memberships and approved the disclosure of our review of associations' climate policy positions. In addition, members of our Board have participated in numerous discussions focusing on climate change with civil society organisations and investors.

Strengthening the link between executive remuneration and our climate targets

Dur Chief executive's performance bjectives are reflected in his Short Term neentive Plan, which includes delivery of he Group's strategy on climate consistent with the new 2030 targets. These are ascaded down into the annual objectives if relevant members of the Executive committee and other members of perior management.

Our climate change strategy is embedded in our business strategy, and aligned with our overall approach to sustainability. Climate risks and opportunities have formed part of our strategic thinking and investment decisions for over two decades, and we now have a portfolio that is well positioned for the transition to a low-carbon economy. Some 76% of the power consumption at our managed operations already comes from renewable energy and we are the only major diversified mining company not involved in fossil fuel extraction.

The Board sets the Group's ambition and emissions targets

Responsibility for identifying, evaluating and managing the risks associated with dimate change lies with all our employee and business leaders, operating within a Croup-wide risk management framework and approved limits. Our risk framework lays out a three lines of defence approach to managing risks and controls:

- First line: employees and busine leaders own risks
- Second line: our central support functions and Risk Management.
 Committee oversee our risk framework and internal control systems.
- Third line: Group Internal Audit assure our internal control systems.

Rio Tinto has an enterprise-wide risk management information system where all material risks and actions, including those related to climate change, are documented and kept current for managing and reporting purposes. Our Critical Risk Assessment process is firmly founded in site-specific exposures, including those related to climate change such as wildfires, cyclones, floods, and landslides at a more regional level.

See page 29 for our climate resilience analys

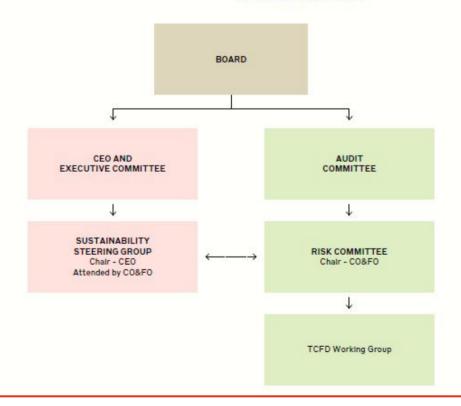
Burberry Annual Report 2019, pg. 113

TASKFORCE FOR CLIMATE-RELATED FINANCIAL DISCLOSURES (TCFD)

TASKFORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES (TCFD)

Burberry is committed to implementing the recommendations of the Taskforce on Climate-related Financial Disclosures (TCFD).

A cross-functional working group has been established to assess and implement the required governance and strategy for climate-related risks and opportunities, and the metrics and targets used to assess and manage these. Governance for managing climate-related risks and opportunities across the Group is incorporated into the existing governance framework as shown below. This includes oversight of implementation of the recommendations of the TCFD.





We like how Burberry both demonstrate responsibility for climate risk at an Executive level and also show the linkage to the Board. Burberry also mention a plan to link remuneration to ESG targets.

GOVERNANCE

A Sustainability Steering Group (SSG) was established in the year to review and oversee the Group's strategy on environmental and social issues. The SSG will convene at least three times a year and is chaired by the Chief Executive Officer who is accountable for ensuring oversight of climate-related risks and opportunities, and is attended by the Chief Operating and Finance Officer, who is also a member of the Leadership Network for the Accounting for Sustainability (A4S) initiative. The cross-functional TCFD working group reports to the Risk Committee, which is chaired by the CO&FO.

We have evolved our governance structure to manage climate-related risks and opportunities and the Board has received updates on sustainability-related matters, including those related to climate change. These were supported by insights from independent sustainability strategy consultants.

Next Steps: The Remuneration Committee is considering how to include non-financial performance metrics including the achievement of ESG targets for senior leaders across the Group. Governance

Board training

Board oversight

Management responsibility

Strategy

Identification

Impact

Resilience

Risk management

Identification, assessment and management

Stakeholder engagement

Integration

Metrics and targets

Metrics

Targets and performance



Strategy

Key findings from strategy scoring

In 2017, the TCFD recommended that companies disclose the actual and potential impacts of climate-related risks and opportunities on the organisation's businesses, strategy, and financial planning where such information is material.

Of the FTSE 100 companies that we assessed, most identified some material climate-related risks and opportunities, however few aligned these with time horizons associated with global climate goals and even fewer linked these with quantified financial impacts.

Identification of material risks and opportunities



Of the FTSE 100 companies we assessed:

- More companies identified physical risks than identified transition risks
- 40% of companies are associating risk and opportunities with different time horizons
- Best performing industry group Transportation
- Worst performing industry group Materials and Buildings

Disclosure of impacts on and by the business



Of the FTSE 100 companies we assessed:

- Nearly 40% of companies link climate impacts to financial performance in some way
- Nearly 80% of companies discussed the impact of the organisation on the climate
- Best performing industry group Transportation
- Worst performing industry group –
 Agriculture, Food, and Forest Products (including FMCG)

Business resilience to climaterelated risks and opportunities



Of the FTSE 100 companies we assessed

- Over half have Made net zero commitments
- Over a third have performed scenario analysis and described the resilience of strategy in each scenario
- Best performing industry group Energy
- Worst performing industry group Material and Buildings

Identification of material risks and opportunities

Identify and disclose physical and transitional risks and opportunities, and do so with an associated time horizon.

This provides detail on the specific impacts of climate change on your business and contextualises them in the short, medium and long-term.

Tips to make your reporting more effective:

Basic

Disclose the physical and transition risks and opportunities and associate them with different time horizons.

Intermediate

Provide a materiality assessment of the risks and opportunities identified and ensure that the associated time frames align with the long-term nature of climate change (i.e. consider time frames >10 years).

Advanced

Detail the financial impact (i.e. in terms of cost) and align the time horizons considered with the Paris Agreement i.e. 2030 and 2050.

Of the FTSE 100 companies we reviewed:



Identify physical risks and/ or opportunities



Identify transition risks and/ or opportunities



Associate risks and opportunities with time horizons

National Grid Annual Report 2019, pg. 60

Risk/ opportunity type	Description	Our response
Transition		
Markets	The operating environment and regulatory framework are rapidly changing in line with the decarbonisation of the electricity and gas networks in the UK and US.	Facilitating the transition to a low-carbon economy is central to our purpose as a business, and certain key actions we are taking in relation to decarbonisation and decentralisation are set out on pages 12 – 15.
Markets	Commercial opportunities from the transition towards net zero (short/medium	Development of a strategy to enable the building of charging stations across our US jurisdictions and UK highways and to meet demand for electric vehicles .
	and long-term).	We have developed a dedicated programme to understand what is required to incorporate hydrogen and renewable natural gas into the gas supply.
		Acquisition of Geronimo, a leading developer of wind and solar generation assets based in Minneapolis, Minneapot, to help position us to develop and grow a large-scale renewable business in the US.
		Our interconnectors form an important part of the UK decarbonisation, by allowing us to exchange surplus renewable electricity with neighbouring countries.
		We are leading the development of Carbon Capture Utilisation and Storage (CCUS) technology in the Humber, UK, to support this area to become the first zero carbon region in the world.
		Our continuing energy-efficiency programmes across Massachusetts, Rhode Island and New York have reduced CO ₂ emissions by more than 725,000 metric tonnes over the past year which is equivalent to the GHG emissions from over 156,000 passenger vehicles driven for one year.
Markets	Changes in supply and demand for existing and new technologies.	Our analysis, underpinned by the ESO Future Energy Scenarios (FES) shows that, even with increased decentralisation of electricity, there is a key role for Electricity Transmission in the UK under a range of scenarios that meet the UK's 2050 climate change goals.
		As the transition to renewable generation continues, we will work with the Long Island Power Authority (LIPA) to transform our generation fleet by responding to future RFPs. Under our existing contracts which extend through 2028, LIPA determines their reliability and sustainability needs and which units are operated, retired or transformed.
		Our FES will be aligned to not meeting, meeting or exceeding the 2050 net zero target.
Security and reliability	Electricity grid reliability and peak capacity.	Our principal focus is around ensuring that our electricity network is able to actively support and contribute to a future where demand for and supply of electricity are ever changing.
		With growth in renewables increasing intermittency on the network, and electrification of transport and heat likely, we are working with our stakeholders to ensure that grid reliability is understood, managed and planned at appropriate levels.
Security and reliability	Facilitating zero carbon operation of the Great Britain electricity system.	In April 2019, the ESO announced its ambition to transform the operation of the electricity system by 2025. Our goal is to be able to operate the system safely and securely at zero carbon whenever there is sufficient renewable generation online and available to meet the total national load.
		To facilitate this, the ESO has agreed contracts with five parties, worth £328 million over a six-year period, in a world-first approach to managing the stability of the electricity system.
Physical risks		
Extreme weather	Physical impacts from extreme weather events such as storms and flooding.	We continue to address the physical risks from extreme weather-related events, with a focus on flooding events (in both the UK and US) and storm hardening (in the US). See case study on page 61. As this work continues, it will be informed by not only the weather patterns we are experiencing, but also the results of the ongoing scenario testing.
Changing weather conditions	Increased frequency of weather incidents leading to asset damage/compromise and operational risks.	We will undertake a review of resilience from weather impacts to date. Work is ongoing to update standards with updated information. As an example, our US engineering team is updating standards for new and rebuilt substations to address changes in inland and coastal flooding projections.
		The ongoing scenario testing will consider whether our design standards are still appropriate under different scenarios, for example, a wider temperature range.
Changing weather conditions	Changes in supply of and demand for gas and electricity as a result of changing weather conditions.	The ESO is undertaking a project, Mapping Impacts and Visualisation of Risks of extreme weather on system operation (MIVOR), to evaluate the impacts of extreme weather events on system operation up to 2050.



We like how National Grid identifies physical and transition risks and opportunities and also outlines actions taken so far, sometimes contextualising their response in the timeframe of their net zero target.



Severn Trent Climate Adaptation Report, pg. 65

We like how Severn Trent rank the opportunities and risks and link them to financial impacts.

4. All climate change opportunities

This is a complete list of the climate change opportunities we have identified, including 'Neutral' scores which represent both threats and opportunities depending upon the outcome.

Rank	Climate Driver	Risk	Risk Description	Risk Score	
01	Warmer Winters	Reduced Leakage	Reduced number of frost-related bursts and leaks, reducing supply disruptions and saving cost.	Орр	30
02	Wetter Winters & Increased Storminess	Recharge of groundwater aquifers	Higher winter rainfall gives increased recharge to groundwater aquifers, increasing summer baseflow. More water available to abstract, allowing storage to meet supply shortages.	Орр	26
03	Hotter & Drier summers	Increased value of wastewater effluent	Higher water demand increases value of waste water effluent.	Орр	21
04	Warmer, wetter winters & drier summers including extreme rainfall events	Alterations to land suitability for sludge disposal	Wetter winters may cause land to become saturated creating unsuitable conditions for studge application, whereas hotter drier summers may extend suitable period for application - impacts upon costs of storage, value of studge and need to find alternative routes of disposal.	Neut	17
05	Increase in temperatures	Changes to buildings heating demands	Higher average temperatures reduce our need for heating in buildings but also increase our need for cooling	Neut	16
06	Increase in temperatures	Changes to energy crop yields	Changes to energy crop yields; extended dry seasons and damage from storms could decrease yields, however, increase in average temperatures could increase growing seasons. Impacts on energy generation and associated costs.	Neut	15
07	Hotter Summers	Increased biological treatment	Improvements in biological treatment performance and effluent removal efficiency. Lower treatment costs.	Орр	13
08	Warmer Winters	Reduced risk to drivers of snow on roads	Reduced frost and snow cover on our sites and road network; reduces risk to our drivers and costs associated with gritting.	Орр	13
09	Wetter Winters	Increased hydroelectric power	Increased reservoir levels in winter allows greater utilisation of river compensation releases with associated Hydro-Electric Power generation.	Орр	7
010	Changing wind patterns	Changes to wind power generation	Potential threat of reduced wind power generation, although opportunity of increased wind generation equally likely due to unknown projections.	Neut	5
011	Increase in temperatures	Improved efficiency of biogas production	Higher ambient temperature increases the efficiency of the biology and mechanical operation of the digestion and biogas process, with small associated cost savings.	Орр	2

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Disclosure of impacts on and by the business

Identify the impacts of climate-related risks and opportunities on the organisation's business, strategy and financial planning and furthermore, disclose the impact of the organisation on the climate.

This makes it clear what the impact of climate-related risks and opportunities could be, and also to what extent the organisation itself is contributing to climate change.

Tips to make your reporting more effective:

Basic

Identify
climate-related
impacts and provide a
brief discussion over
the impact of the
organisation on the
climate

Intermediate

Provide a detailed discussion on the impact of the organisation on the climate.

Advanced

Link the climate-related impacts identified to financial performance indicators e.g. costs, revenue, liabilities, assets.

Of the FTSE 100 companies we reviewed:



Identify the impact on the organisation's business of climate-related risks and opportunities



Disclose the **impact on the climate** of the
organisation

WPP Sustainability Report 2019, pg. 60

ENVIRONMENTAL IMPACTS

GREENHOUSE GAS EMISSIONS: £3.9 MILLION NET COST TO SOCIETY

The hidden cost of our emissions was £8.6 million in 2019. This calculation takes into account our GHG emissions from energy and business air travel (but excludes other estimated impacts such as leased cars, taxis and couriers) as well as the benefits resulting from our green electricity purchasing (zero emissions assumed). With our investments in renewable energy offsets included (see below), our net cost to society is £3.9 million.

In 2019, WPP invested in renewable energy projects to offset 65,014 tCO₂e emissions associated with climate change impacts of business air travel. Based on the assumed social cost of carbon, this represents a positive societal impact of £3 million. In addition, WPP purchased renewable energy certificates (RECs) in the United States, equivalent to saving 44,914 tCO₂e, with an assumed societal value of £1.7 million.

For consistency, we applied the same approach and value as the 2014 Impact Valuation report (i.e. cost of carbon based on the Stern Report), but adjusted upwards to allow for inflation (i.e. £39.22/tCO₂e). It should be noted though that the equivalent current UK government non-traded carbon price is 74% higher at £68.25/tCO₂e.

For transparency, we split the value into the negative impact of our gross emissions and the positive impact of our carbon offsets. In addition, we assume zero emissions for the purchase of renewable electricity. We have been recording our emissions in line with international standards since 2006 and as part of our reporting process we capture scope 1, scope 2 and a number of scope 3 emissions.



We like how WPP quantified their environmental impact, linking renewable energy projects to emissions.

Rio Tinto Climate Change Report 2019, pg. 9

Overall Iron ore \$17.0bn underlying · Little change to underlying steel · Moderate negative impact on margin but EBITDA (2019) demand as not easily substitutable remains a high-margin business (includes Pilbara and positioned at the bottom of a still steep Increased use of scrap in steel Iron Ore Canada) industry cost curve making process over medium-term. especially in China, displacing some · Scope to accelerate decarbonisation of iron ore an already low-carbon intensity business · Resilience from limited exposure to · Wider iron ore product price differentials in favour of higherlow-grade iron ore and opportunities for grade products Pilbara lump and hydro-based Iron Ore Company of Canada pellets Longer-term implications from development and deployment of new low-carbon steelmaking technologies Aluminium \$2.3bn undertying Demand supported by light · Increased attractiveness of hydro-based EBITDA (2019) weighting benefits in some Canadian smelters, further consolidating applications, potentially offset by position at bottom of industry cost curve some substitution . Opportunity to be leading provider of Moderate increased use of scrap. aluminium with zero-carbon smelting but from an already relatively high through ELYSIS™ . Pressure to accelerate repowering of · Steeper industry cost curve with coal-based smelters in Australia increased carbon costs for coal-fired · Increased carbon costs for our alumina smelters and projects in China, husiness supporting higher prices Copper \$1.9bn undertving Demand supported by faster · Increased attractiveness of the EBITDA (2019) electrification overall copper sector (includes 100% of · High copper intensity of low-carbon Opportunities to further improve evaluation projects technologies low-carbon intensity of our copper and other costs for business and develop new carbon-. Three to six times more copper Copper & Diamonds neutral mines used in each MW of solar and Product Group) Pressure to develop low-carbon wind, compared to coal and gas · Three to four times more copper power options for our Oyu Tolgoi operations in Mongolia used in electric vehicle. compared to combustion engine car · Higher prices required for industry to match supply with demand Minerals \$0.8bn undertying Stronger demand for battery . Opportunity to enter the lithium market EBITDA (2019) minerals including high-purity through the Jadar project in Serbia (TiO2 and Borates) nickel, lithium and cobalt . Opportunity to acquire battery minerals Little change to underlying TiO₂ businesses through Rio Tinto Ventures pigment demand and limited scope Pressure to develop low-carbon power for recycling options for Richards Bay Minerals in South Africa

National Grid Annual Report 2019, pg. 59

The main transition impacts of the 1.5°C scenario were:

- A trend towards more large-scale renewables in the generation mix: this would be a positive development for the Group, but for our electric network businesses the rate of new connections could increase beyond today's levels: this could increase costs or, without investment ahead of need, lead to a backlog.
- A trend towards electrification: increases in electricity demand would likely trigger electricity network upgrades and investment. Although network costs are a very small proportion of the customer bill, spikes in spending would need to be managed in conjunction with our regulators to ensure that customers, especially lower-income customers, are not unduly adversely affected.
- Public pressure on gas: in line with the Committee on Climate
 Change and other external sources, we do not believe substitutes to
 methane gas for space heating can reach scale in our territories by
 2030 (or even 2040, unless extensive new policy is rapidly deployed).
 However, in this scenario we anticipate that, without mitigating action
 to reduce and offset emissions, there is a risk of pushback against
 the use of gas by environmental groups or concerned citizens.
 We are already experiencing growing resistance to building new gas
 infrastructure in our US business from politicians, concerned citizens
 and environmental groups.

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We like how National Grid describes climate-related impacts under two different scenarios.

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We like how Rio Tinto categorises the climate change impact by product, linking this to EBITDA, and using a specific scenario (IA SDS), which is linked to the IPCC scenarios.

-**66**

We like how BP outlines the steps it will take to achieve Net Zero

Business resilience to climate-related risks and opportunities

If applicable, disclose the organisation's commitment to net zero and describe the scenario analysis performed.

This illustrates the organisation's commitment to fighting climate change and also shows its preparedness in considering its resilience under multiple future scenarios.

Tips to make your reporting more effective:

Basic

Disclose that the organisation has made a net zero commitment.

Intermediate

Explain the detail of the net zero strategy. Disclose the consideration of, and the resilience of the organisation to, one possible scenario.

Advanced

Disclose the consideration of, and the resilience of the organisation to, at least 2 different scenarios, one being <2 degrees C and one being a stressed scenario.

Of the FTSE 100 companies we reviewed:



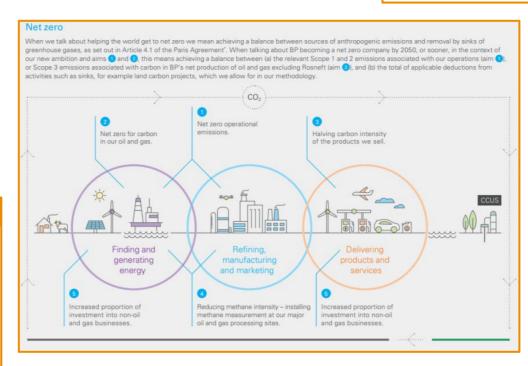
Have committed to **net zero**



Perform climate scenario analysis

We like how Unilever gives a detailed description of scenario analysis with some pilot examples of impact on specific materials. There is discussion of the resilience of the business to the risks and opportunities

BP Sustainability Report 2019, pg. 18



Unilever Annual Report 2019, pg. 43 - 44

Understanding financial impact: scenario analysis

This section explains how scenario analysis helps us to understand the potential impact of climate change on our business in 2030 to inform our strategy and financial planning.

To further understand the impact that climate change could have on Unilever's business in the future, we performed a high-level assessment of the impact of 2°C and 4°C global warming scenarios. The 2°C and 4°C scenarios are constructed on the basis that average global temperatures will have increased by 2°C and 4°C in the year 2100. Unilever believes the world should seek to limit global temperatures to 1.5°C above pre-industrial levels. However, in line with guidance we have modelled scenarios based on 2°C and 4°C scenarios.

Emerging risks

We face a number of uncertainties that have the potential to be materially significant to our long-term strategy but cannot be fully defined as a specific risk at present, and therefore cannot be fully assessed or managed. These emerging risks typically have a long time horizon, such as climate change, certain new technologies and long-term geopolitical trends.

Our enhanced risk management framework places greater emphasis on the identification of emerging risks, so that we can pro-actively monitor them and ensure they inform our strategic planning and resilience activities.

A focus on climate change:

The physical impacts of climate change and the actions taken by governments and society to try and limit global warming to well below 2°C by 2100 may impact our assets in the UK and globally, as well as our ability to source raw materials. As our customers seek to reduce their own emissions, demand for our propositions and services may also change.

We have conducted an analysis of the potential future climate-related impacts on BT; the main threats and opportunities identified are as follows:

Physical impacts:

 the impacts of extreme weather events, in particular of flooding and chronic increases in temperature, on our suppliers, operational assets and vehicle fleet.

Policy decisions and low carbon transition risks:

- potential carbon price increasing the operating cost of our assets
- potential policy changes that impact our ability to use our existing vehicle fleet
- increased costs of sourcing renewable energy due to changes in demand
- potential policy changes around endof-life obligations and rights to repair relevant to our propositions.

Opportunities:

- the potential to recover and reuse infrastructure and product materials which can contribute to a low carbon, circular economy
- increasing demand for our propositions to support customers to move to a net zero society.

In response, we have pledged to become a net zero carbon emissions business by 2045. We plan to meet this target through the purchase of 100% renewable electricity, converting our vehicle fleet to ultra-low emissions vehicles and to continue to decarbonise our buildings. We are also considering our global response to physical climate impacts, building on work in the UK to implement flood defences and minimise service disruption.

See Digital impact and sustainability on page 36 for further information on our response to climate change.



We like how BP identifies risks and opportunities, discloses the outputs of high-level scenario analysis and makes a Net Zero commitment with the high level strategy details.

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Risk management

Key findings from risk management scoring

In 2017, the TCFD recommended that companies disclose how they identify, assess and manage climate-related risks.

Of the FTSE 100 companies that we assessed, almost all companies recognised climate change as a current and/or emerging risk. Many integrated climate-related risks into high-level assessment of other risks. However very few go onto identify the financial impact and mitigation measures around this.

Risk identification, assessment and management



Of the FTSE 100 companies we assessed:

- Over half described their process to assess the potential impact of climate-related risks
- Almost 2/3rd described some sort of mitigation of climate-related risks, however there was very low disclosure on management of the financial implications of climate risk
- Best performing industry group:
 Transportation
- Worst performing industry group: Materials and Buildings

Engagement with stakeholders



Of the FTSE 100 companies we assessed:

- Over half described engagement with multiple stakeholders (including suppliers, customers, industry or policy makers)
- Best performing industry group: Energy
- Worst performing industry group:
 Agriculture, Food, and Forest Products (including FMCG)

Integration with current risk process



Of the FTSE 100 companies we assessed:

- 80% disclose some level of integration of risks into their risk management process
- Best performing industry group: Energy
- Worst performing industry group: Material and Buildings

Risk identification, assessment and management

Describe the process for identifying, assessing and managing climate-related risk and impact. Provide details of the mitigation/management techniques used.

This allows the reader to understand the process behind the disclosures your company has made with regards to strategy and risk. The management techniques enable the reader to understand how the organisation is mitigating the risks it is presented with.

Tips to make your reporting more effective:

Basic

Disclose how the identification, assessment and management of risks and impacts is conducted. Provide details on how these risks are mitigated.

Intermediate

Ensure that the discussion over identification, assessment and management of risks and impacts covers the entire value chain.

Advanced

Discuss how addressing the financial impact of climate-related risks and opportunities is built into your impact assessment process. Ensure that the financial impacts of the mitigation methods are captured.

Unilever CDP Response 2019, pg. 12

Process to assess the financial impact of risks

We use our 15 principal risks (see pages 29-33 of our Annual Report & Accounts 2018) to identify scenarios which could force Unilever to cease being viable over a 3-year period. In addition to general monitoring of the risks throughout the year, each year, we assess the cash flow impact a particular risk/mix of risks could have to the business based on the amount of cash held, our operating cash flows and the credit facilities available and their ability to affect the business operating and meeting its liabilities. Our time horizons are aligned with our forward-looking planning, set out in our three-year strategic plans and annual forecasts and our Boards assume overall accountability for the management of risk and reviewing the effectiveness of Unilever's risk management and internal control systems.

Definition of substantive financial impact

In assessing viability, 'severe but plausible' scenarios based on our principal risks are considered and the definition we work with is 1% of our Group Turnover which equalled €509m of turnover in 2018. We identify substantive financial impact in 2 ways:

- assessing scenarios for each individual principal risk, for example the termination of our relationships with the three largest global customers; the loss of all material litigation cases; a major IT data breach and the lost cost and growth opportunities from not keeping up with technological changes; and
- assessing scenarios that involve more than one principal risk, for example a major global incident affecting one or more of Unilever's key locations resulting in an outage for a year in a key sourcing unit and significant water shortages in our key developing markets All the principal risks could impact our business within the next two years (ie short-term risks), or could impact our business over the next three to five years (ie medium-term risks). Since risks arising from climate change risks are greatest over the 6 year time horizon, we wanted to understand the impact of global warming scenarios on our business up to 2030.

Of the FTSE 100 companies we reviewed:



Outline a process for identifying, assessing and managing climate-related risks across the entire value chain



Assess the financial impact of climate-related risks



Disclose the process of mitigation of risks, linked to financial implications



We like how Unilever provide detail of the process for assessing the financial impact of climate risks.



Standard Life Aberdeen TCFD Report 2019, pg. 6

We like how Standard Life Aberdeen identifies physical and transition risks, linking them to financial impact and disclosing mitigation strategies for these.

Table 1: Highest scoring climate-related financial risks:

Risk	type		Potential financial impact (-)	Likelihood	Mitigation Strategy				
t star	ts with us	;							
	7.8. I.	Enhanced emissions- reporting obligations	Increased operating costs		 We have a process to identify and respond to regulatory and voluntary reporting change. 				
TRANSITIONAL RISKS	POLICY LEGAL	Mandates on and regulation of existing products and services	Increased compliance costs, write-offs, asset impairment, and early retirement of existing assets due to policy changes		 We support transitional policies (e.g. carbon prices) and proactively engage with governments, regulators and industry organisations. 				
	REPUTATION	Increased stakeholder concern or negative stakeholder feedback	Reduction in capital availability		 Operationally we've set stretching long-term targets for Scope 1 and 2 emissions. We are increasing our procurement of renewable energy, invested in energy efficiency technology, and as of 2020 we are offsetting our operational GHG emissions. 				
	REPU	Significant shifts on consumer preferences	Reduced revenue from decreased demand for goods/services, Reduction in capital availability		Our climate change approach encourages the allocation of capital to compa who are better placed for the transition to a low carbon world				
nvest	ting with p	ourpose							
	CY &	Enhanced emissions- reporting obligations	Increased operating costs		 We are developing the data and tools to carry out necessary analysis and research for example, the weighted average carbon intensities for equities, fixed income and real estate, provided in charts 2 and 3 				
Q	POLICY LEGAL	Mandates on and regulation of existing products and services	Increased compliance costs, write-offs, asset impairment, and early retirement of existing assets due to policy changes		 Research and company engagements help us to understand the issues and which companies are best placed for the transition. Diversification of our portfolios is also a mitigant. 				
TRANSITIONAL RISKS	TION	Increased stakeholder concern or negative stakeholder feedback	Reduction in capital availability		 As an investor we actively consider climate change risks and opportunities as part of our investment process and provide specific climate change related solutions for investors. We make our views public for example by signing the Global investor statement to Governments in 2019. In addition, we are an active member of Climate Action 100+ and support the Transition Pathway Initiative. 				
	REPUTATION	Significant shifts on consumer preferences	Reduced revenue from decreased demand for goods/services, Reduction in capital availability		 As stated above we are active in promoting the transition as a signatory and in collaboration with industry peers. We actively encourage our holdings to consider climate-related risks and opportunities 				
		Stigmatization of sector	Reduced revenue from decreased demand for goods/services		We are transparent in our product descriptions.				

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Engagement with stakeholders

Document engagement with stakeholders beyond the organisation's operations regarding the climate change agenda.

This demonstrates to the reader that a holistic approach is being taken with regards to tackling the issue of climate change, and the extent to which the organisation is looking beyond its own operations.

Tips to make your reporting more effective:

Basic

Provide disclosure of engagement with at least one type of stakeholder.

Intermediate

Show that multiple stakeholders have been engaged with.

Advanced

Improve the narrative to provide high levels of detail concerning the initiatives which have been disclosed.

Of the FTSE 100 companies we reviewed:



Engage with multiple stakeholders on the subject of climate risk



We like how Unilever provides a detailed description of industry groups they engage with and global initiatives they lead/take part in.

Unilever Website 2020

Business Ambition for 1.5°C

🗗 Business Ambition for 1.5°C is an urgent call to action, led by a coalition of UN agencies, business and industry leaders. Countries are asked to set a deadline for ending their contribution to climate change, in the form of a legally binding net zero target. Businesses are asked to set science-based targets to reduce their targets on the same trajectory. We were one of the first companies to commit to and set a science-based target for reducing emissions in line with the 1.5°C ambition of the Paris Agreement.

At the UN Secretary General's Climate Action Summit, Unilever CEO, Alan Jope, was honoured with an Ambitious Climate Leader Award by Lise Kingo, Executive Director of the UN Global Compact, for making this commitment. Companies and countries making this commitment are also considered part of the Climate Ambition Alliance, launched by the Chilean government as part of the UN Climate Change Conference COP25 meeting, which took place in late 2019.

We Mean Business

We support the advocacy work of & We Mean Business, a coalition of business groups including the & World Business Council for Sustainable Development (WBCSD), & BSR, & Ceres, & B.Team, & HRH The Prince of Wales's Corporate Leaders Group, & CDP and & The Climate Group and supported by other networks. As a & Corporate Advisory Group member of We Mean Business, we are helping to engage a record number of businesses around the world in committing to take action on climate change.

World Business Council for Sustainable Development (WBCSD)

The WBCSD is a CEO-led organisation of nearly 200 companies committed to sustainable business. We're taking part in the WBCSD's Low Carbon Technology Partnership Initiatives (LCTPI) to find business solutions to climate change. If implemented, the LCTPI could contribute 65% of the emissions reductions needed by 2030.

One such project is being run by the LCTPi REScale group, which is looking at how to scale the use of renewable energy. We have supported the development of a WBCSD guide to help businesses achieve 100% renewable energy sourcing through purchase power agreements.

United Nations Global Compact (UNGC)

We are a member of the UNGC's Caring for Climate Campaign and we have implemented the UNGC's Business Leadership Criteria on Carbon Pricing. We believe that carbon pricing is a fundamental part of the global response to climate change, and without it the world is unlikely to meet its GHG reduction targets. We also support the UNGC's Guide to Responsible Engagement in Climate Policy, which calls for companies and trade associations to ensure their lobbying aligns with their public position on climate change.

LSEG Sustainability Report 2019, pg. 46

Engagement with Stakeholders and Shareholders

The Board views clients, regulators and employees as key stakeholders. Here we provide a brief commentary on our engagement with these stakeholders in 2019. More information on our stakeholder engagement can be found in the Annual Report on pages 51-52.

Clients

We engage with our clients across our business in a number of different of ways. In 2019, some examples of this engagement on sustainability topics have included our transition bond roundtable (page 16) and the launch of the FTSE Custom Developed Ex Korea SDG Aligned Index, developed following close collaboration between FTSE Russell, Pensioenfonds Detailhandel and BlackRock (page 19). Further examples are outlined earlier in this report in the Our Markets and Our Services sections.

LSEG is engaged on an ongoing basis with global policy makers and regulators on sustainable finance, including the UK, EU, North America and in Asia. In the last year LSEG has submitted evidence to a number of inquiries, including the Treasury Select Committee's inquiry into the

'Decarbonisation of the UK Economy and Green Finance inquiry', where we outlined the importance of public markets in meeting the challenge of transitioning; and IOSCO's consultation into 'Sustainable finance in emerging markets'.

As part of LSEG's Sustainable Finance and Investor Summit in October 2019, we held a panel discussion with experts from a range of sectors to debate what the future is of regulation to drive the transition to a sustainable economy.

UK Climate Financial Risk Forum

LSEG is a member of the Climate Financial Risk Forum (CFRF), an industry forum that is jointly convened by the Prudential Regulation Authority (PRA) and the Financial Conduct Authority (FCA) to build capacity and share best practice. Since its inception in March 2019, the CFRF has set up four technical working groups on disclosure, scenario analysis, risk management and innovation, CFRF is due to publish the conclusion of these working groups in Spring

UK Green Finance Institute

LSEG is a member of the Green Finance Institute and is represented on its Advisory Group by Nikhil Rathi, CEO of LSE plc and Director of International Development. The purpose of the Institute is to bring together the UK's existing offering on sustainable finance and create new related business

opportunities as well as communicate these initiatives to the wider market is in this area.

EU Technical Expert Group on Sustainable Finance

In July 2018, the European Commission established a Technical Expert Group on sustainable finance (TEG) to assist in the development of a unified classification system for sustainable economic activities; an EU green bond standard and methodologies for low-carbon indices and metrics for climate-related disclosure. LSEG is a member through Borsa Italiana. The TEG's mandate covers four areas:

- EU taxonomy to determine whether an economic activity is environmentally sustainable;
- an EU Green Bond Standard;
- methodologies for EU climate benchmarks and disclosures for benchmarks and
- guidance to improve corporate disclosure of climate-related information.

The TEG, with significant input by LSEG, has delivered recommendations on these four workstreams. The mandate of the TEG has been extended until 30 September 2020. to allow it to conclude its technical work and retain the expertise before the future platform on sustainable finance is established.

Employees

Employee engagement continues to be of paramount importance to the Group, and we are committed to acting on the results of our regular 'Have Your Sau' global employee surveys. Details of how we have engaged with our people in the year can be found in the Our People section of this report on page 24.

Shareholders

The Company maintains an active shareholder engagement programme, managed through the Group's Investor Relations (IR) function. The IR programme provides regular opportunity for the Board to have contact with existing and potential shareholders. In 2019, the IR team held over 550 investor meetings.



We like how LSEG provide clear labelling of the different stakeholders they engage.

Governance

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Metrics

Targets and performance

Land Securities Sustainability Report 2020, pg. 39

Principle Landsec's approach Find out more Strategy, governance & engagement Implementing the Landsec's purpose is to provide the right space for our customers and communities so that businesses and people can thrive. We aim Sustainability strategy

Ten Principles into Strategies & Operations

to be a sustainability leader by anticipating and responding to the changing needs of our customers, communities, partners and employees. To deliver this we've set 12 long-term sustainability commitments, covering each of our three priority areas: creating jobs and opportunities, efficient use of natural resources and sustainable design and innovation. The goal of our sustainability approach is to create long-term financial, physical and social value for our shareholders and society.

Sustainability is embedded across Landsec. Our Sustainability Committee is the main forum for overseeing the sustainability strategy and targets for the Group. The Committee is chaired by the Chief Executive and is attended by the Group Corporate Affairs & Sustainability Director and Group HR Director together with our Sustainability Director, and senior representation from the property and development teams. The Sustainability Committee meets quarterly and is the senior forum for determining our sustainability strategy and reviewing performance, ensuring its integration with the Group's overall strategy. Furthermore, the Board receives an annual update on our sustainability programme, which includes discussion of performance in relation to our commitments.

Landsec recognises that our responsibility extends into our value chain. Consequently, our supplier engagement on sustainability covers supplier selection and management of our operational suppliers. We also encourage innovation with service partners to reduce climate impacts of products and services. Moreover, we support our customers with sustainability-related issues, e.g. helping to drive down their costs through creating energy data insights, seeking opportunities for improvement and helping customers to carry out energy efficiency projects. Working with customers in this way benefits them, but also creates a bottom-line benefit and value to society.

Furthermore, Landsec is dedicated to working with the real estate industry and government to tackle global environmental and societal problems. We are active members of the UK Green Building Council and Better Buildings Partnership, working with our peers to help the entire industry improve, and we use our expertise to help tackle specific sustainability problems. In addition, we support legislative solutions around sustainability, for instance supporting the Department for Business, Energy and Industrial Strategy (BEIS) with public policy on operational energy and carbon ratings within the commercial property sector.

Sustainability Charter for suppliers

Working with our tners.

We like how Landsec provides a description of supply chain and industry group

engagement.

Integration with current risk process

Disclose how the climate-related risk (CRR) management process is integrated into the overall risk management process.

This illustrates how the issue of climate risk is now considered an integral part of the overall risk management process.

Tips to make your reporting more effective:

Basic

If applicable, disclose the operational linkage of climate-related risk management into the overall risk management process.

Intermediate

Include a narrative explaining how this integration took place.

Advanced

If applicable, ensure that it is detailed that there is full integration into the overall risk management process, including on a financial level.

Of the FTSE 100 companies we reviewed:



Integrate climate-related risk into the overall risk-management process



We like how RBS includes climate risk alongside its other top and emerging risks.

RBS Annual Report 2019, pg. 44

Top and Emerging Risks

RBS employs a continuous process for identifying and managing its top and emerging risks. Top and emerging risks are those that could have a significant negative impact on its ability to operate or meet its strategic objectives.

External	
Economic & Political Risks	As a UK-focused bank, RBS is exposed to the economic and political risks facing the UK including risks from a sustained period of low economic growth and low interest rates. A range of complementary approaches is used to inform strategic planning and risk mitigation. This includes active management of portfolios and adjustment or risk appetite, scenario planning and stress testing. In addition, RBS has implemented plans to prepare for the los of access to the European Single Market and continues to monitor domestic political risk including developments in relation to a second Scottish independence referendum, as well as geopolitical risks. In the longer term, demographic change, high levels of debt and financial inequality in the UK could all have financial impacts and, as a result, are closely monitored with strategic plans adapted as appropriate.
Climate Related Risks	Accelerating climate change may lead to heightened financial risks and faster-than-anticipated impacts on RBS and the wider economy. These include financial loss as a result of deterioration in credit quality, market risk exposure and operational risk. The operation and business strategy continues to be adapted to mitigate the direct and indirect physical risks of climate change and the transition to a low carbon economy. In addition, climate-related financial risk is being integrated into the risk management framework.
Cyber Threats	Cyber-attacks continue to increase in frequency, sophistication and severity. There is a risk that a catastrophic cyber-attack damages the ability to do business and/or compromises data security. RBS operates a multilayered approach to its defences and continues to invest in a multi-year programme to build resilience and cybersecurity capabilities. Cyber-attacks may also threaten the supply chain, reinforcing the importance of due diligence and close working with the third parties on which RBS relies.
Competitive Environment	Target markets are highly competitive, with changes in technology, regulation, customer behaviour and business models continuing to accelerate competitive pressure. RBS monitors the competitive environment and adapts strategy as appropriate, remaining focused on innovating to evolve the business model to deliver compelling propositions for customers. This includes the launch of new digital retail and business offerings, Bó and Mettle.
Regulatory, Legal & Conduct Risk	RBS continues to face stringent regulatory and supervisory requirements, particularly regarding conduct, financial crime, the use of models, and capital and liquidity management. A strong and comprehensive risk and compliance culture continues to be embedded. RBS engages with regulators to implement new regulatory requirements and incorporates the implications of proposed or potential regulatory activities in its strategic and financial plans.
LIBOR transition	UK and international regulators are driving a transition from the use of interbank offer rates (IBORs), including LIBOR, to alternative risk-free rates. Uncertainties around the transition represent a number of risks including elevated legal and conduct risks. While a programme to manage the transition is underway, there is a risk that this may not be done effectively.

CLIMATE-RELATED FINANCIAL DISCLOSURES

Risk management



We like how Barclays clearly shows how climate risk is integrated into the Enterprise Risk Management Framework, with oversight across multiple parts of the bank, led by Risk Officers who have responsibility beyond climate risk.

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During 2019, we further embedded climate change risk into the Group's Enterprise Risk Management Framework (ERMF) and recognised that climate change, and the associated risks described above, can impact a number of principal risks the Group faces.

Climate Change Financial Risk and Operational Risk Policy

Outline minimum

requirements and

risk management

relating to client

relationships or

transactions.

controls for reputation

limate Change Standard

Credit Risk

Credit Climate Lens.

change risk appetite in

relevant countries and

obligors' exposure using

Review individual

Consider climate

portfolios.

Market Risk

Enterprise Risk Management Framework (ERMF)

Treasury & Capital Risk

 Assess and aggregate exposures to

- ILAAP
- Oversight by Treasury and Capital Risk Committee and Board Risk Committee.

 Outline the expected business behaviours in relation to these issues. Outline the approach to

enhanced due diligence.

· Oversight by Retail and Wholesale Risk Management Committees, and Board Risk Committee.

 Assess and identify all risk factors affecting climate change risk.

- Apply stress scenarios. assess stress losses and set risk limits.
- Include in ICAAP.
- Oversight by Market Risk Committee and Board Risk Committee.

climate-related risks.

- Incorporate as part of stress testing, capital and liquidity planning. and non-traded market risk funding processes.
- Include in ICAAP and

Treasury & Capital Risk

Operational Risk Accountable Officer

Operational Risk

change across different

risk categories e.g.

premises, supplier.

Include climate change

processes including

strategic risk

assessment.

Oversight by

within risk assessment

Operational Risk Profile

Committee and Board

Risk Committee.

Integrate climate

Ownership

Responsibilities

Covernance

Clobal Head of Sustainability & ESG

Credit Risk Accountable Officer

Market Risk Accountable Officer

Accountable Officer

PwC

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Metrics and targets

Key findings from metrics and targets scoring

In 2017, the TCFD recommended that companies disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities where such information is material.

Of the FTSE 100 companies that we assessed, almost all reported at least Scope 1 and 2 Greenhouse Gas Emissions. Many report performance against targets they have set. However only a third of companies have developed sophisticated metrics assessing the full value chain or linking metrics to financial performance.

Disclosing climate-related metrics



Of the FTSE 100 companies we assessed:

- Three quarters reported Scope 1,2 and 3 emissions
- One third identified and reported climate-related metrics that were not GHGs
- Best performing industry group:
 Transportation
- Worst performing industry group:
 Agriculture, Food, and Forest Products (including FMCG)

Setting climate-related targets



Of the FTSE 100 companies we assessed:

- One third disclosed targets linked to broader strategic targets such as Net Zero or the company's strategy
- Best performing industry group: Transportation
- Worst performing industry group: Materials and Buildings

Reporting on performance



Of the FTSE 100 companies we assessed:

- Half described the performance of the company on climate, using comparatives
- Best performing industry group:
 Agriculture, Food, and Forest Products (including FMCG)
- Worst performing industry group: Financial Services

Disclosing climate-related metrics

Disclose a range of climate and sustainability-related metrics, including GHG emissions.

This will provide the reader with the quantitative detail of the company's impact on the environment and climate, as well as showing how this has changed through time.

Tips to make your reporting more effective:

Basic

Report predominantly straightforward metrics such as Scope 1 & 2 emissions and those relating to the direct operations of the company.

Intermediate

Increase the sophistication of the metrics reported by providing comparatives, normalised metrics and Scope 3 emissions data.

Advanced

Incorporate metrics concerning the wider supply chain and provide a financial context, for example, by using cost-related metrics.

Of the FTSE 100 companies we reviewed:

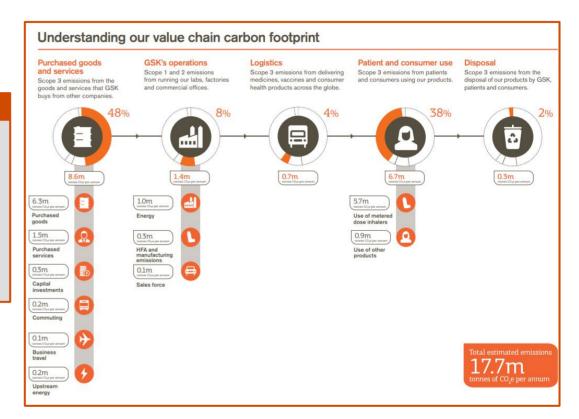


Report sophisticated non-emission climate-related metrics, including supply-chain, normalisations, financial metrics



Disclose scope 1, 2 & 3 emissions

GSK Website 2020





We like how GSK visually represents their scope 1, 2 & 3 emissions across the value chain.



United Utilities' greenhouse gas emissions	Current			Baseline
	year	Prev	ious years	Year
	2019/20 tCO ₂ e	2018/19 tCO ₂ e ⁽³⁾	2017/18 tCO ₂ e	2005/06 tCO ₃ e
Scope 1 Direct emissions				
Direct emissions from burning of fossil fuels	17,129	16,809	14,324	17,638
Process emissions from our treatment plants – including refrigerants	84,048	99,136	91,456	125,032
Transport: company owned or leased vehicles	15,739	14,409	11,803	7,514
Total Scope 1 Direct emissions	116,916	119,354	117,583	150,183
Scope 2 Energy indirect emissions		5010:1111		
Grid electricity purchased – generation Market-based® Location-based	11,789	18,503	28,287	357,660
Total Scope 2 Energy indirect emissions	11,789	18,503	230,167	357,660
Scope 3 Other indirect emissions			20000000	
Business travel (public transport and private vehicles)	2,123	2,236	2,504	2,374
Emissions from sludge and process waste disposal	27,410	26,196	23,048	42,712
Grid electricity purchased – transmission				
and distribution Market-based®	1,005	1,577	2,644	
Location-based	13,967	15,955	21,520	33,088
Total Scope 3 Other indirect emissions	30,538	29,999	47,072	78,174
GROSS GHG EMISSIONS®	159,243	167,856	394,822	596,017
Avoided emissions from renewable electricity exported	(3,979)	(3,434)	(2,303)	(1,597)
Avoided emissions from biomethane exported	(9,302)	(8,446)	(8,577)	_
Avoided emissions from renewable electricity purchased Location-based		_	(173,876)	
Total avoided emissions	(13,281)	(11,880)	(184,756)	(1,597)
NET GHG EMISSIONS®	145,962	155,976	210,066	594,420

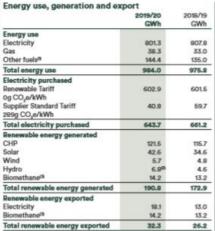
- Market-based figures for electricity purchased on a standard tariff have been calculated using specific emissions factors from published generator fuel mix disclosures.
- (2) Operational emissions for 2005/06 and 2017/18 use the location-based method, 2018/19 and the current year use the market-hased method
- (3) Emissions from our regulated business have been estimated using the Water Industry Carbon Accounting Workbook V13 2020 v3 which encompasses the UK Government GHG Conversion Factors for Company reporting 2019.

United Utilities' greenhouse gas emissions intensity

As in previous years we state our emissions as tonnes CO_e per £million revenue. We also report the metric tonnes CO, e per megalitre (using the location-based method) broken down by clean water and wastewater, as these are common metrics for our industry.

		Current		
		year 2019/20 85.7 78.5 MI 27.19	2018/19	2017/18
Gross emissions per £m revenue	tCO,e	85.7	92.3	225.6
Net emissions per £m revenue	tCO _s e	78.5	85.7	121.0
Regulated emissions per megalitre of treated water Regulated emissions per megalitre of sewage treated	Kg CO ₂ e/MI Kg CO ₂ e/MI	27:19 83.80	38.22 102.43	60.43 116.75

We like how United Utilities discloses a large number of climate-related metrics, both relating to GHG emissions and otherwise



- (f) Energy use for other fuels includes fuel used in processing and transport plus business mileage in private vehicles converted to GWh using UK Government GHG Conversion Factors for Company Reporting.
- (2) Renewable energy from hydro includes Oswestry which was not incorporated into the emission reporting pending review of ROC.
- (3) Biomethane generated and exported to grid is expressed as an electricity equivalent.

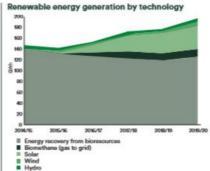
Emissions and energy use This year we consumed 984 GWh of energy including electricity, gas and other fuels purchased for use on-site and for transport.
We increased generation across all our renewable sources of hydro, solar photovoltaics, wind, biomethane and energy recovery using sewage sludge to power combined heat and power (CHP) generators. We generated the equivalent of 191 GWh of renewable electricity, an increase of 18 GWh on last year and though we exported 6.1 GWh more we reduced our electricity purchased by 17.5 GWh.

Having largely addressed emissions from electricity, it is mostly methane and nitrous oxide emissions arising from wastewater treatment that remain. Understanding and reducing these emissions forms a long-term challenge for the industry as a whole.

Energy efficiency action taken

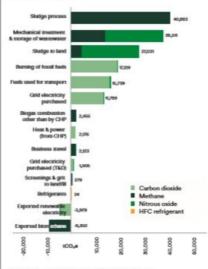
Our energy management strategy aims to achieve an appropriate balance between managing energy consumption, use of renewables and self-generation and being smart about how we operate our assets to get best value while maintaining security of supply.

We have continued to develop our Energy Management Programme which brings together processes, asset optimisation and data analytics. We have implemented a wide range of projects to reduce consumption and drive more dynamic control of our assets to reduce energy costs. To improve data capabilities we have rolled out an innovative sub-metering solution installing over 1,200 meters. Two major solar installations were completed with a combined capacity of 11.5 MW.



In the past year we completed our Energy Saving Opportunities Scheme (ESOS) submission to the Environment Agency which includes potential opportunities for efficiency and generation improvements. We were shortlisted for the Energy Institute Energy Management Award in November 2019.

Breakdown of our 2019/20 emissions by activity and greenhouse gas



Summary: good progress - ambitious, deliverable plans

We've been focused on climate change for over 20 years and have made good progress. We have committed to playing our part in limiting climate change to 1.5°C, we aim to maintain and improve services whether the climate change is 1.5°C, 2°C or 4°C, and we have the appropriate governance, strategy, risk management and metrics to make sure this happens.

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Setting climate-related targets and reporting on performance

Disclose the targets (and related progress) the company uses to manage climate-related risks and opportunities.

This will provide the reader with information on how proactive the company is being with regards to reducing its climate impact, and whether they are set to reach their targets.

Tips to make your reporting more effective:

Basic

Produce targets accompanied by a qualitative description of progress.

Intermediate

Include targets set over different timeframes, provide quantitative progress and add accompanying analysis.

Advanced

Ensure that any GHG emissions reduction targets are science-based (and therefore in line with the Paris Agreement). Extend the accompanying narrative.

Of the FTSE 100 companies we reviewed:



Disclose science-based targets linked to climate-related risks and opportunities



Disclose **performance** against targets using quantitative comparatives

Unilever Website 2020

Progress to date

We have continued to develop products with a lower GHG impact, however the GHG impact of our products across their full lifecycle has increased by around 2% since 2010. $^{\uparrow +}$ This is a slight improvement from 2018, when our GHG impact per consumer use was up 6% compared to 2010.

Our perspective

The increase is due to mix effects as well as acquisitions and disposals. For example, our 2019 footprint shows reductions in GHG emissions from our increased use of **renewable energy in our factories** and **sustainable product innovations**. Portfolio changes have also reduced our GHG emissions, such as the disposal of some foods that require cooking. However, these GHG reductions have been negated by our Beauty & Personal Care Division, which has expanded in hair and skin cleansing products via acquisitions.

Our measured GHG footprint in the 14 key countries across our value chain is around 60 million tonnes $\rm CO_2e$, an increase of 15% compared to 2010. However, our turnover has increased at 18% compared to 2010 – higher than our GHG emissions have grown, which is an indication of decoupling. As we make progress towards our 2030 GHG reduction commitment, we expect the extent of decoupling to accelerate.

We are having more success in areas that we can directly control. Although our factory sites achieved our CO_2 reduction from energy target in 2016 – four years ahead of schedule – they are continuing to cut CO_2 emissions from energy. Compared to 2008, CO_2 emissions from energy in our factories have fallen by 65%[†] per tonne of production. In 2019, 85% of all grid electricity used in our manufacturing operations was generated from renewable resources.

We continue to reduce GHG emissions from refrigeration through the ongoing roll-out of climate-friendly ice cream freezer cabinets, which use hydrocarbon refrigerants rather than hydrofluorocarbon (HFC) refrigerants. We've rolled out over 2.9 million climate-friendly ice cream freezer cabinets. And, finally, in 2019 we achieved our transport target a year ahead of schedule when our CO_2 emissions intensity from transport improved by 41.2% since 2010.

We've created a detailed plan to annually assess the feasibility for Unilever to reach our target to halve the greenhouse gas impact of our products across the lifecycle by 2030. This considers both external transitions towards a net zero carbon economy as well as the latest available data and assumptions about our GHG footprint. CDP is the world's largest disclosure platform of environmental data for investors. In 2019, we achieved a place on its 'A List' for climate change and forests (which was conducted through the lens of three commodities: palm oil, soy and timber).



We like how Unilever provides a detailed assessment of their performance relating to scope 3 product-related emissions.

RBS Website 2020

GHG Emissions	Baseline Year	Baseline Totals	2015	2016	2017	2018	2019	2020 Target	Change From Baseline (%)
Location-based CO ₂ e emissions (Scope 1, 2 & business travel) (tonnes)		496,249	450,299	391,437	312,731	252,340	191,103		-61%
Location-based CO ₂ e emissions per FTE		5.07	4.91	4.34	4.08	3.56	2.87		-43%
Scope 1 * CO ₂ e emissions (tonnes)		30,695	27,997	28,577	25,578	29,959	20,672		
Scope 2 ** market-based *** CO ₂ e emissions (tonnes)	2014	377,337	337,000	152,912	69,391	57,735	45,913	-45%	
Scope 2 location-based CO ₂ e emissions (tonnes)		360,201	326,709	273,822	219,979	166,179	127,730		
Scope 3 **** CO ₂ e emissions from business travel (tonnes)		105,352	95,592	89,037	67,174	56,203	42,701		
Energy									
Energy consumption (GWh)	2014	862	807	755	693	619	524	-40%	-39%
Business Travel									
CO ₂ e emissions from business travel (Scope 1 & 3) (tonnes)	2011	143,883	96,442	89,924	67,941	56,950	43,443	-50%	-70%
Water									
Water consumption (m³)	2014	1,164,345	1,311,456	1,239,425	1,083,921	918,976	830,610	-10%	-29%
Waste									
Waste generated (tonnes)		17,539	15,036	19,724	14,768	13,955	12,822		
Percentage of waste diverted from landfill (UK)	2014	91%	92%	97%	97%	99%	100%	100%	9%
Paper									
Paper used (tonnes)	2014	13,464	12,067	10,911	8,691	10,642	7,777	-60%	-42%



We like how RBS clearly shows annual progress from the baseline to the target year.

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Excellence in sustainability reporting 2020 - A review of leading UK companies

https://www.pwc.co.uk/service s/sustainability-climate-chang e/insights/sustainability-reporti ng-tips.html



TCFD 2020 Status Report and announcement

https://www.pwc.co.uk/financial-servic es/assets/pdf/tcfd-calls-for-further-pro gress-on-climate-related-reporting.pdf

Rising to the challenge: climate risk in the UK banking sector

https://www.pwc.co.uk/financial-servic es/assets/pdf/rising-to-challenge-clima te-risk-in-uk-banking-sector.pdf



