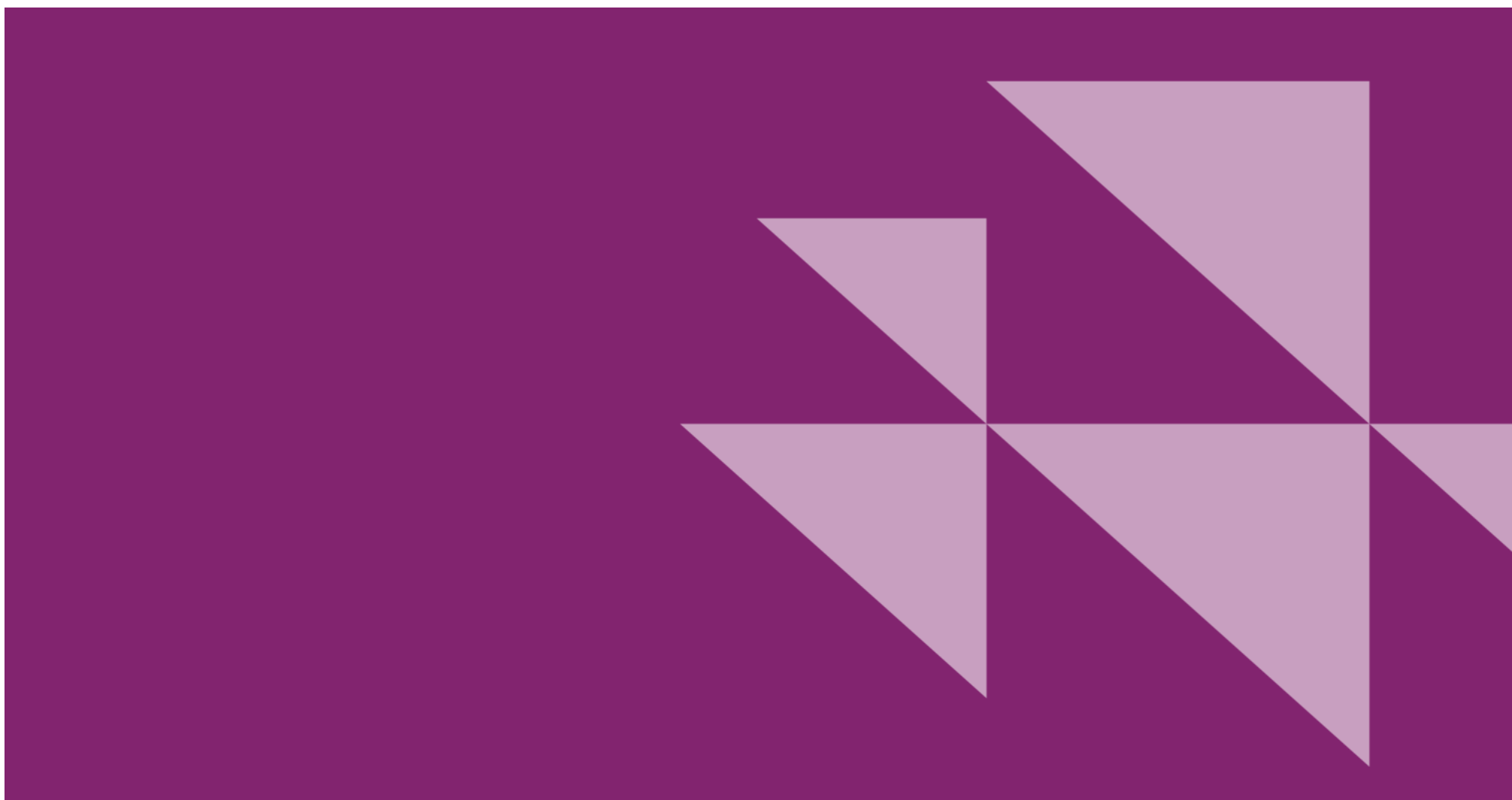


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## CDP Climate Change Questionnaire 2018

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# CDP Climate Change Questionnaire 2018

## CDP disclosure cycle 2018

New for 2018: In response to market needs, CDP has developed questions specific to high-impact sector activities across its climate change, forests and water programs. The 2018 questionnaires also include more forward-looking metrics, are further harmonized with other reporting frameworks, and include TCFD recommendations for climate-related disclosure.

CDP's 2018 questionnaires can be previewed here according to program (climate change, forests, and water) and sector. The questionnaires are valid for information requests from investors, as well as from customers that are members of CDP's supply chain program. As there are sector-specific questions throughout the questionnaires, you might find that question numbers skip since not all questions will be applicable to your organization.

Beginning in April 2018, organizations can submit information through CDP's new disclosure platform. Note that while the questions themselves will not change, the format may differ between the preview here and the presentation within the disclosure platform, particularly for drop-down options and tables.

For each program (climate change, forests, and water) there are two versions of the questionnaire: minimum and full. The minimum version contains identical but fewer questions, and no sector-specific questions. Organizations will be notified whether they are eligible to complete the minimum tier version of the questionnaire in February. This may be the case if one of the following applies:

- the organization does not have activities in one of our targeted environmental samples and has an annual revenue of less than EUR / \$250 million, or
- this is the organization's first year of disclosing to a particular CDP questionnaire

Previews of the online questionnaires can be accessed from CDP's Guidance page for companies by clicking on the link to a 2018 climate change, forests, or water information request: <https://www.cdp.net/en/guidance/guidance-for-companies>. For any disclosure-related questions, please contact [respond@cdp.net](mailto:respond@cdp.net).

Timeline:

January	<ul style="list-style-type: none"><li>• Options to export content from this online preview into Word or PDF will be available.</li><li>• Comprehensive details of changes to the CDP questionnaires from 2017 to 2018 will be shared.</li></ul>
February	<ul style="list-style-type: none"><li>• Organizations will be notified of the specific sector and program questionnaire(s) they need to complete for requesting investors.</li></ul>
March	<ul style="list-style-type: none"><li>• Guidance and scoring methodologies will be available.</li></ul>
April	<ul style="list-style-type: none"><li>• Access will be provided to CDP's new disclosure platform.</li><li>• Some organizations will be asked to provide additional information to their customers that are members of CDP's supply chain program.</li></ul>
June	<ul style="list-style-type: none"><li>• Responses to investor requests must be submitted by June 28, 2018 to be automatically eligible for scoring and inclusion in CDP reports (where applicable).</li></ul>
July	<ul style="list-style-type: none"><li>• Responses to supply chain requests must be submitted by July 31, 2018.</li></ul>

## Introduction to CDP's climate change program and questionnaire

CDP works to reduce companies' greenhouse gas emissions and mitigate climate change risk.

The 2015 Paris agreement was a tipping point in the global approach to climate change. By agreeing to limit global temperature rises to well below 2°C, governments have committed to transforming to a low-carbon economy. This transition will create winners and losers within and across business sectors, as the manifestation of climate-related opportunities and risks accelerates in both size and scope. Business as usual will not be a good indicator of how companies will perform.

We believe that improving corporate awareness through measurement and disclosure is essential to the effective management of carbon and climate change risk. We request information on climate risks and low-carbon opportunities from the world's largest companies on behalf of 827 institutional investor signatories with a combined US\$100 trillion in assets.

Regulators have begun to respond to the risks, notably with the Task Force on Climate-related Financial Disclosures (TCFD). Established by the Financial Stability Board, the TCFD has moved the climate disclosure agenda forward by emphasizing the link between climate-related risk and financial stability. The Task Force has recommended that both companies and investors disclose climate change information. This includes whether they are conducting scenario analysis in line with a 2-degree pathway and then setting out how climate-related issues impact their strategy and financial planning. This amplifies the longstanding call from CDP's investor signatories for companies to disclose comprehensive, comparable environmental data in their mainstream reports, driving climate-related risk management further into the boardroom.

### Climate change questionnaire developments

The CDP climate change questionnaire has been redesigned in response to these market needs, highlighting a shift to more sectoral information, mainstream-ready reporting and disclosures that highlight a company's own approach to the low-carbon economy. For 2018, this includes:

- Integration of sector-specific questions
- Inclusion of the TCFD recommendations
- Increased emphasis on forward-looking metrics and improved alignment with other reporting frameworks

Key changes include:

Governance	<ul style="list-style-type: none"> <li>● Both board- level and management responsibility for climate-related issues</li> </ul>
Risks and opportunities	<ul style="list-style-type: none"> <li>● How risks and opportunities are identified, assessed and managed</li> <li>● Consolidation of risk disclosures into one question (from three)</li> <li>● Consolidation of opportunity disclosure into one question (from three)</li> </ul>
Strategy	<ul style="list-style-type: none"> <li>● Impacts of climate-related issues on strategy, financial planning, and businesses</li> <li>● If scenario analysis is used to inform strategy business strategy and details of the models, assumptions and types of scenario analysis performed</li> <li>● Transition plans (high-impact sectors only)</li> </ul>
Targets	<ul style="list-style-type: none"> <li>● Aggregation of non-GHG emissions climate-related targets into a single question</li> </ul>
Energy	<ul style="list-style-type: none"> <li>● Revised energy question flow to focus breakdowns on only relevant energy use</li> </ul>
Other climate-related metrics	<ul style="list-style-type: none"> <li>● Ability to provide other metrics such as from waste, energy, land-use</li> </ul>
Carbon pricing	<ul style="list-style-type: none"> <li>● New question flow for carbon tax, emissions trading and/or internal carbon price use</li> </ul>

A detailed document on these changes will become available soon. Meanwhile, revisions and changes to questions are indicated by the "Change from 2017" row below each question, either as no change, a minor change, a modification, or a new question. Minor changes indicate wording edits and revisions to drop-down options, while a modification indicates where a new or revised data point has been added or removed from an existing question.

### Sector approach

For climate change, CDP has incorporated sector-specific questions for 12 sectors grouped within the following four clusters. The rationale for developing a refined questionnaire for each of these sectors is outlined in the relevant sector introduction. Companies with business activities outside of these sectors will receive a general questionnaire, as in previous years. Further sectors will be introduced in 2019.

Each question number in the climate change questionnaire begins with the letter C. Questions uniquely for companies in a particular sector are labeled using a two-letter abbreviation within the question number. These abbreviations are noted below.

2018 climate change sectors:

- Agriculture: Agriculture commodities (AC); Food, beverage & tobacco (FB); Paper & forestry (PF)
- Energy: Coal (CO); Electric utilities (EU); Oil & gas (OG)
- Materials: Cement (CE); Chemicals (CH); Metals & mining (MM); Steel (ST)
- Transport: Transport services (TS); Transport OEMS (TO)

# C0 Introduction

## Introduction

**(C0.1) Give a general description and introduction to your organization.**

### Change from 2017

No change (2017 CC0.1)

### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

**(C0.2) State the start and end date of the year for which you are reporting data.**

### Change from 2017

No change (2017 CC0.2)

### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Start date	End date
From: [DD/MM/YYYY]	To: [DD/MM/YYYY]

[Add Row]

**(C0.3) Select the countries for which you will be supplying data.**

### Change from 2017

No change (2017 CC0.3)

### Response options

Please complete the following table:

Country
Select all that apply: [Country drop-down list]

**(C0.4) Select the currency used for all financial information disclosed throughout your response.**

### Change from 2017

Minor change (2017 CC0.4)

Response options

Please complete the following table:

Currency
Select from: [Currency drop-down list]

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this value should align with your consolidation approach to your Scope 1 and Scope 2 greenhouse gas inventory.

Change from 2017

Minor change (2017 CC8.1)

Response options

Select one of the following options:

- Financial control
- Operational control
- Equity share
- Other, please specify

# C1 Governance

## Board oversight

(C1.1) Is there board-level oversight of climate-related issues within your organization?

Change from 2017

Modified question (2017 CC1.1)

Response options

Select one of the following options:

- Yes
- No

(C1.1a) Identify the position(s) of the individual(s) on the board with responsibility for climate-related issues.

Question dependencies

This question only appears if you select “Yes” in response to C1.1.

Change from 2017

Modified question (2017 CC1.1a)

Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Position of individual(s)	Please explain
<div>Select from:<ul style="list-style-type: none"><li>• Board Chair</li><li>• Board/Executive board</li><li>• Director on board</li><li>• Chief Executive Officer (CEO)</li><li>• Chief Financial Officer (CFO)</li><li>• Chief Operating Officer (COO)</li><li>• Chief Procurement Officer (CPO)</li><li>• Chief Risk Officer (CRO)</li><li>• Chief Sustainability Officer (CSO)</li><li>• Other C-Suite Officer</li><li>• President</li><li>• Other, please specify</li></ul></div>	<div>Text field</div>

[Add Row]

(C1.1b) Provide further details on the board’s oversight of climate-related issues.

### Question dependencies

This question only appears if you select "Yes" in response to C1.1.

### Change from 2017

New question

### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Please explain
Select from: <ul style="list-style-type: none"><li>● Scheduled - all meetings</li><li>● Scheduled - some meetings</li><li>● Sporadic - as important matters arise</li><li>● Other, please specify</li></ul>	Select all that apply: <ul style="list-style-type: none"><li>● Reviewing and guiding strategy</li><li>● Reviewing and guiding major plans of action</li><li>● Reviewing and guiding risk management policies</li><li>● Reviewing and guiding annual budgets</li><li>● Reviewing and guiding business plans</li><li>● Setting performance objectives</li><li>● Monitoring implementation and performance of objectives</li><li>● Overseeing major capital expenditures, acquisitions and divestitures</li><li>● Monitoring and overseeing progress against goals and targets for addressing climate-related issues</li><li>● Other, please specify</li></ul>	Text field

[Add Row]

### Connection to other frameworks

#### TCFD

Governance recommended disclosure a) Describe the board's oversight of climate related risks and opportunities.

### (C1.1c) Why is there no board-level oversight of climate-related issues and what are your plans to change this in the future?

### Question dependencies

This question only appears if you select "No" in response to C1.1.

### Change from 2017

New question

### Response options

Please complete the following table:

Primary reason	Board-level oversight of climate-related issues will be introduced in the next two years.	Please explain
Text field	Select from: <ul style="list-style-type: none"><li>● Yes, we plan to do so within the next two years</li><li>● No, we do not currently plan to do so</li></ul>	Text field

### (C1.2) Below board-level, provide the highest-level management position(s) or committee(s) with responsibility for climate-related issues.



## Change from 2017

New question

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Name of the position(s) and/or committee(s)	Responsibility	Frequency of reporting to the board on climate-related issues
Select from: <ul style="list-style-type: none"><li>● Chief Executive Officer (CEO)</li><li>● Chief Financial Officer (CFO)</li><li>● Chief Operating Officer (COO)</li><li>● Chief Procurement Officer (CPO)</li><li>● Chief Risks Officer (CRO)</li><li>● Chief Sustainability Officer (CSO)</li><li>● Other C-Suite Officer, please specify</li><li>● President</li><li>● Risk committee</li><li>● Sustainability committee</li><li>● Safety, Health, Environment and Quality committee</li><li>● Corporate responsibility committee</li><li>● Other committee, please specify</li><li>● Business unit manager</li><li>● Energy manager</li><li>● Environmental, Health, and Safety manager</li><li>● Environment/Sustainability manager</li><li>● Facility manager</li><li>● Process operation manager</li><li>● Procurement manager</li><li>● Public affairs manager</li><li>● Risk manager</li><li>● There is no management level responsibility for climate-related issues</li><li>● Other, please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● Assessing climate-related risks and opportunities</li><li>● Managing climate-related risks and opportunities</li><li>● Both assessing and managing climate-related risks and opportunities</li><li>● Other, please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● More frequently than quarterly</li><li>● Quarterly</li><li>● Half-yearly</li><li>● Annually</li><li>● Less frequently than annually</li><li>● As important matters arise</li><li>● Not reported to the board</li></ul>

[Add Row]

### Connections to other frameworks

TCFD

Governance recommended disclosure b) Describe management's role in assessing and managing climate related risks and opportunities.

**(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored.**

## Change from 2017

New question

### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

Connection to other frameworks

TCFD

Governance recommended disclosure b) Describe management's role in assessing and managing climate related risks and opportunities.

Employee incentives

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(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?

Change from 2017

No change (2017 CC1.2)

Response options

Select one of the following options:

- Yes
- No

(C1.3a) Provide further details on the incentives provided for the management of climate-related issues.

Question dependencies

This question only appears if you select "Yes" in response to C1.3.

Change from 2017

Minor change (2017 CC1.2a)

Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Who is entitled to benefit from these incentives?	Types of incentives	Activity incentivized	Comment
Select from: <ul style="list-style-type: none"> <li>● Board Chair</li> <li>● Board/Executive board</li> <li>● Director on board</li> <li>● Corporate executive team</li> <li>● Chief Executive Officer (CEO)</li> <li>● Chief Financial Officer (CFO)</li> <li>● Chief Operating Officer (COO)</li> <li>● Chief Procurement Officer (CPO)</li> <li>● Chief Risk Officer (CRO)</li> <li>● Chief Sustainability Officer (CSO)</li> <li>● Other C-Suite Officer</li> <li>● President</li> <li>● Executive officer</li> <li>● Management group</li> <li>● Business unit manager</li> <li>● Energy manager</li> <li>● Environmental, health, and safety manager</li> <li>● Environment/Sustainability manager</li> <li>● Facilities manager</li> <li>● Process operation manager</li> <li>● Procurement manager</li> <li>● Public affairs manager</li> <li>● Risk manager</li> <li>● Buyers/purchasers</li> <li>● All employees</li> <li>● There are no incentives provided for the management of climate-related issues</li> <li>● Other, please specify</li> </ul>	Select from: <ul style="list-style-type: none"> <li>● Monetary reward</li> <li>● Recognition (non-monetary)</li> <li>● Other non-monetary reward</li> </ul>	Select from: <ul style="list-style-type: none"> <li>● Emissions reduction project</li> <li>● Emissions reduction target</li> <li>● Energy reduction project</li> <li>● Energy reduction target</li> <li>● Efficiency project</li> <li>● Efficiency target</li> <li>● Behavior change related indicator</li> <li>● Environmental criteria included in purchases</li> <li>● Supply chain engagement</li> <li>● Other, please specify</li> </ul>	Text field

[Add Row]

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## C2 Risks and opportunities

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### Time horizons

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**(C2.1) Describe what your organization considers to be short-, medium- and long-term horizons.**

#### Change from 2017

New question

#### Response options

Please complete the following table:

Time horizon	From (years)	To (years)	Comment
Short-term	Numerical field	Numerical field	Text field
Medium-term			
Long-term			

#### Connection to other frameworks

TCFD

Strategy recommended disclosure a) Describe the climate related risks and opportunities the organization has identified over the short, medium, and long term.

### Management processes

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**(C2.2) Select the option that best describes how your organization's processes for identifying, assessing, and managing climate-related issues are integrated into your overall risk management.**

#### Change from 2017

Modified question (2017 CC2.1)

#### Response options

Select one of the following options:

- Integrated into multi-disciplinary company-wide risk identification, assessment, and management processes
- A specific climate change risk identification, assessment, and management process
- There are no documented processes for identifying, assessing, and managing climate-related issues

#### Connection to other frameworks

TCFD

Risk Management recommended disclosure c) Describe how processes for identifying, assessing, and managing climate related risks are integrated into the organization's overall risk management.

**(C2.2a) Select the options that best describe your organization's frequency and time horizon for identifying, and assessing climate-related risks.**

**Question dependencies**

This question only appears if you select "Integrated into multi-disciplinary company-wide risk identification, assessment, and management processes" or "A specific climate change risk identification, assessment, and management process" in response to C2.2.

**Change from 2017**

Modified question (2017 CC2.1a)

**Response options**

Please complete the following table:

Frequency of monitoring	How far into the future are risks considered?	Comment
Select from: <ul style="list-style-type: none"><li>● Six-monthly or more frequently</li><li>● Annually</li><li>● Every two years</li><li>● Sporadically</li><li>● Not defined</li><li>● Never</li></ul>	Select from: <ul style="list-style-type: none"><li>● Up to 1 year</li><li>● 1 to 3 years</li><li>● 3 to 6 years</li><li>● &gt; 6 years</li><li>● Unknown</li></ul>	Text field

**(C2.2b) Provide further details on your organization's process(es) for identifying and assessing climate-related risks.**

**Question dependencies**

This question only appears if you select "Integrated into multi-disciplinary company-wide risk identification, assessment, and management processes" or "A specific climate change risk identification, assessment, and management process" in response to C2.2.

**Change from 2017**

New question

**Response options**

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

**Connection to other frameworks**

*TCFD*

Strategy recommended disclosure a) Describe the climate related risks and opportunities the organization has identified over the short, medium, and long term.

Risk Management recommended disclosure a) Describe the organization's processes for identifying and assessing climate-related risks.

**(C2.2c) Which of the following risk types are considered in your organization's climate-related risk assessments?**

**Question dependencies**

This question only appears if you select "Integrated into multi-disciplinary company-wide risk identification, assessment, and management processes" or "A specific climate change risk identification, assessment, and management process" in response to C2.2.

Change From 2017

New question

Response options

Please complete the following table:

Risk type	Relevance & inclusion	Please explain
Current regulation	Select from: <ul style="list-style-type: none"><li>● Relevant, always included</li><li>● Relevant, sometimes included</li><li>● Relevant, not included</li><li>● Not relevant, included</li><li>● Not relevant, explanation provided</li><li>● Not evaluated</li></ul>	Text field
Emerging regulation		
Technology		
Legal		
Market		
Reputation		
Acute physical		
Chronic physical		
Upstream		
Downstream		

Connection to other frameworks

TCFD

Risk Management recommended disclosure a) Describe the organization's processes for identifying and assessing climate-related risks.

Risk Management recommended disclosure b) Describe the organization's processes for managing climate related risks.

(C2.2d) Describe your process(es) for managing climate-related risks and opportunities.

Question dependencies

This question only appears if you select "Integrated into multi-disciplinary company-wide risk identification, assessment, and management processes" or "A specific climate change risk identification, assessment, and management process" in response to C2.2.

### Change from 2017

Modified question (2017 CC2.1b, CC2.1c)

### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

### Connection to other frameworks

*TCFD*

Risk Management recommended disclosure b) Describe the organization's processes for managing climate related risks.

**(C2.2e) Why does your organization not have a process in place for identifying, assessing, and managing climate-related risks and opportunities, and do you plan to introduce such a process in the future?**

### Question dependencies

This question only appears if you select "There are no documented processes for identifying, assessing, and managing climate-related issues" in response to C2.2.

### Change from 2017

Modified question (2017 CC2.1d)

### Response options

Please complete the following table:

Primary reason	Please explain
Select from: <ul style="list-style-type: none"><li>● We are planning to introduce a risk identification, assessment, and management process in the next two years</li><li>● Important but not an immediate business priority</li><li>● Judged to be unimportant, explanation provided</li><li>● Lack of internal resources</li><li>● Insufficient data on operations</li><li>● No instruction from management</li><li>● Other, please specify</li></ul>	Text field

## Risk disclosure

**(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?**

### Change from 2017

Modified question (2017 CC5.1)

### Response options

Select one of the following options:

- Yes
- No

## Connection to other frameworks

### TCFD

Strategy recommended disclosure a) Describe the climate related risks and opportunities the organization has identified over the short, medium, and long term.

**(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.**

### Question dependencies

This question only appears if you select "Yes" in response to C2.3.

### Change from 2017

Modified question (2017 CC5.1a, CC5.1b, CC5.1c)

### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Identifier	Where in the value chain does the risk driver occur?	Risk type	Primary climate-related risk driver	Type of financial impact driver	Company- specific description	Time horizon	Likelihood
	Select from: <ul style="list-style-type: none"> <li>● Direct operations</li> <li>● Supply chain</li> <li>● Customer</li> </ul>	Select from: <ul style="list-style-type: none"> <li>● Transition risk</li> <li>● Physical risk</li> </ul>	See drop-down options below	See drop-down options below	Text field [maximum 2,400 characters]	Select from: <ul style="list-style-type: none"> <li>● Current</li> <li>● Short-term</li> <li>● Medium-term</li> <li>● Long-term</li> <li>● Unknown</li> </ul>	Select from: <ul style="list-style-type: none"> <li>● Virtually certain</li> <li>● Very likely</li> <li>● Likely</li> <li>● More likely than not</li> <li>● About as likely as not</li> <li>● Unlikely</li> <li>● Very unlikely</li> <li>● Exceptionally unlikely</li> <li>● Unknown</li> </ul>

[Add Row]

Primary climate-related risk driver drop-down options:

Select one of the following options:

Transition risks

- Policy and legal: Increased pricing of GHG emissions
- Policy and legal: Enhanced emissions-reporting obligations



- Policy and legal: Mandates on and regulation of existing products and services
- Policy and legal: Exposure to litigation
- Technology: Substitution of existing products and services with lower emissions options
- Technology: Unsuccessful investment in new technologies
- Technology: Costs to transition to lower emissions technology
- Market: Changing customer behavior
- Market: Uncertainty in market signals
- Market: Increased cost of raw materials
- Reputation: Shifts in consumer preferences
- Reputation: Stigmatization of sector
- Reputation: Increased stakeholder concern or negative stakeholder feedback

#### Physical risks

- Acute: Increased severity of extreme weather events such as cyclones and floods
- Chronic: Changes in precipitation patterns and extreme variability in weather patterns
- Chronic: Rising mean temperatures
- Chronic: Rising sea levels

Financial impact driver drop-down options:

Select one of the following options:

#### Transition risks

- Policy and legal: Increased operating costs (e.g., higher compliance costs, increased insurance premiums)
- Policy and legal: Write-offs, asset impairment, and early retirement of existing assets due to policy changes
- Policy and legal: Increased costs and/or reduced demand for products and services resulting from fines and judgments
- Technology: Write-offs and early retirement of existing assets due to technology changes
- Technology: Reduced demand for products and services
- Technology: Research and development (R&D) expenditures in new and alternative technologies
- Technology: Capital investments in technology development
- Technology: Costs to adopt/deploy new practices and processes
- Market: Reduced demand for goods and/or services due to shift in consumer preferences
- Market: Increased production costs due to changing input prices (e.g., energy, water) and output requirements (e.g., waste treatment)
- Market: Abrupt and unexpected shifts in energy costs
- Market: Change in revenue mix and sources resulting in decreased revenues
- Market: Re-pricing of assets (e.g., fossil fuel reserves, land valuations, securities valuations)
- Reputation: Reduced revenue from decreased demand for goods/services
- Reputation: Reduced revenue from decreased production capacity (e.g., delayed planning approvals, supply chain interruptions)
- Reputation: Reduced revenue from negative impacts on workforce management and planning (e.g., employee attraction and retention)
- Reputation: Reduction in capital availability

#### Physical risks

- Reduced revenue from decreased production capacity (e.g., transport difficulties, supply chain interruptions)
- Reduced revenue and higher costs from negative impacts on workforce (e.g., health, safety, absenteeism)
- Write-offs and early retirement of existing assets (e.g., damage to property and assets in "high-risk" locations)
- Increased operating costs (e.g., inadequate water supply for hydroelectric plants or to cool nuclear and fossil fuel plants)
- Increased capital costs (e.g., damage to facilities)
- Reduced revenues from lower sales/output
- Increased insurance premiums and potential for reduced availability of insurance on assets in "high-risk" locations

Connection to other frameworks

TCFD

Strategy recommended disclosure a) Describe the climate related risks and opportunities the organization has identified over the short, medium, and long term.

Please note: columns 1-7 align with the TCFD recommendations

(C2.3b) Why do you not consider your organization to be exposed to climate-related risks with the potential to have a substantive financial or strategic impact on your business?

Question dependencies

This question only appears if you select "No" in response to C2.3.

Change from 2017

Modified question (2017 CC5.1d, CC5.1e, CC5.1f)

Response options

Please complete the following table:

Primary reason	Please explain
Select from: <ul style="list-style-type: none"> <li>● Risks exist, but none with potential to have a substantive financial or strategic impact on business</li> <li>● Evaluation in process</li> <li>● Not yet evaluated</li> <li>● Other, please specify</li> </ul>	Text field

Opportunity disclosure

(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Change from 2017

Modified question (2017 CC6.1)

Response options

Select one of the following options:

- Yes

- Yes, we have identified opportunities but are unable to realize them
- No

Connection to other frameworks

TCFD

Strategy recommended disclosure a) Describe the climate related risks and opportunities the organization has identified over the short, medium, and long term.

(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.

Question dependencies

This question only appears if you select “Yes” in response to C2.4.

Change from 2017

Modified question (2017 CC6.1a, CC6.1b, CC6.1c)

Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Identifier	Where in the value chain does the opportunity occur?	Opportunity type	Primary climate-related opportunity	Type of financial impact	Company-specific description	Time horizon	Likelihood
	Select from: <ul style="list-style-type: none"><li>● Direct operations</li><li>● Supply Chain</li><li>● Customer</li></ul>	Select from: <ul style="list-style-type: none"><li>● Resource efficiency</li><li>● Energy source</li><li>● Products and services</li><li>● Markets</li><li>● Resilience</li></ul>	See drop-down options below	See drop-down options below	Text field [maximum 2,400 characters]	Select from: <ul style="list-style-type: none"><li>● Current</li><li>● Short-term</li><li>● Medium-term</li><li>● Long-term</li></ul>	Select from: <ul style="list-style-type: none"><li>● Virtually certain</li><li>● Very likely</li><li>● Likely</li><li>● More likely than not</li><li>● About as likely as not</li><li>● Unlikely</li><li>● Very unlikely</li><li>● Exceptionally unlikely</li><li>● Unknown</li></ul>

[Add Row]

Primary climate-related opportunity driver drop-down options:

Select one of the following options:

Resource efficiency

- Use of more efficient modes of transport
- Use of more efficient production and distribution processes
- Use of recycling
- Move to more efficient buildings
- Reduced water usage and consumption

#### Energy source

- Use of lower-emission sources of energy
- Use of supportive policy incentives
- Use of new technologies
- Participation in carbon market
- Shift toward decentralized energy generation

#### Products and services

- Development and/or expansion of low emission goods and services
- Development of climate adaptation and insurance risk solutions
- Development of new products or services through R&D and innovation
- Ability to diversify business activities
- Shift in consumer preferences

#### Markets

- Access to new markets
- Use of public-sector incentives
- Access to new assets and locations needing insurance coverage

#### Resilience

- Participation in renewable energy programs and adoption of energy-efficiency measures
- Resource substitutes/diversification

Type of financial impact driver drop-down options:

Select one of the following options:

#### Resource efficiency

- Reduced operating costs (e.g., through efficiency gains and cost reductions)
- Increased production capacity, resulting in increased revenues
- Increased value of fixed assets (e.g., highly rated energy-efficient buildings)
- Benefits to workforce management and planning (e.g., improved health and safety, employee satisfaction resulting in lower costs)

#### Energy source

- Reduced operational costs (e.g., through use of lowest cost abatement)
- Reduced exposure to future fossil fuel price increases
- Reduced exposure to GHG emissions and therefore less sensitivity to changes in cost of carbon
- Returns on investment in low-emission technology
- Increased capital availability (e.g., as more investors favor lower-emissions producers)
- Reputational benefits resulting in increased demand for goods/services

Products and services

- Increased revenue through demand for lower emissions products and services
- Increased revenue through new solutions to adaptation needs (e.g., insurance risk transfer products and services)
- Better competitive position to reflect shifting consumer preferences, resulting in increased revenues

Markets

- Increased revenues through access to new and emerging markets (e.g., partnerships with governments, development banks)
- Increased diversification of financial assets (e.g., green bonds and infrastructure)

Resilience

- Increased market valuation through resilience planning (e.g., infrastructure, land, buildings)
- Increased reliability of supply chain and ability to operate under various conditions
- Increased revenue through new products and services related to ensuring resiliency

Connection to other frameworks

TCFD

Strategy recommended disclosure a) Describe the climate related risks and opportunities the organization has identified over the short, medium, and long term.

Please note: columns 1-7 align with the TCFD recommendations

(C2.4b) Why do you not consider your organization to have climate-related opportunities?

Question dependencies

This question only appears if you select “No” or “Yes, we have identified opportunities but are unable to realize them” in response to C2.4.

Change from 2017

Modified question (2017 CC6.1d, CC6.1e, CC6.1f)

Response options

Please complete the following table:

Primary reason	Please explain
Select from: <ul style="list-style-type: none"><li>● Opportunities exist, we are unable to realize them</li><li>● Opportunities exist, but none with potential to have a substantive financial or strategic impact on business</li><li>● Evaluation in progress</li><li>● Judged to be unimportant</li><li>● No instruction from management to seek out opportunities</li><li>● Not yet evaluated</li><li>● Other, please specify</li></ul>	Text field

Business impact assessment

(C2.5) Describe where and how the identified risks and opportunities have impacted your business.

Change from 2017

New question

Response options

Please complete the following table:

Area	Impact	Description
Products and services	Select from: <ul style="list-style-type: none"><li>● Impacted</li><li>● Impacted for some suppliers, facilities, or product lines</li><li>● Not yet impacted</li><li>● Not impacted</li><li>● Not evaluated</li><li>● We have not identified any risks or opportunities</li></ul>	Text field
Supply chain and/or value chain		
Adaptation and mitigation activities		
Investment in R&D		
Operations		
Other, please specify		

Connection to other frameworks

TCFD

Strategy recommended disclosure b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.

Financial planning assessment

(C2.6) Describe where and how the identified risks and opportunities have factored into your financial planning process.

Change from 2017

New question

Response options

Please complete the following table:

Area	Relevance	Description
Revenues	Select from: <ul style="list-style-type: none"> <li>● Impacted</li> <li>● Impacted for some suppliers, facilities, or product lines</li> <li>● Not impacted</li> <li>● Not yet impacted</li> <li>● Not evaluated</li> <li>● We have not identified any risks or opportunities</li> </ul>	Text field [maximum 2,400 characters]
Operating costs		
Capital expenditures/capital allocation		
Acquisitions and divestments		
Access to capital		
Assets		
Liabilities		
Other		

## Connection to other frameworks

### TCFD

Strategy recommended disclosure b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.

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## C3 Business strategy

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### Business strategy

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#### (C3.1) Are climate-related issues integrated into your business strategy?

##### Change from 2017

Minor Change (2017 CC2.2)

##### Response options

Select one of the following options:

- Yes
- No

##### Connection to other frameworks

*TCFD*

Strategy recommended disclosure b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.

#### (C3.1a) Does your organization use climate-related scenario analysis to inform your business strategy?

##### Question dependencies

This question only appears if you select "Yes" in response to C3.1.

##### Change from 2017

New question

##### Response options

Select one of the following options:

- Yes, qualitative
- Yes, quantitative
- Yes, qualitative and quantitative
- No, but we anticipate doing so in the next two years
- No, and we do not anticipate doing so in the next two years

##### Connection to other networks

*TCFD*

Strategy recommended disclosure c) Describe the resilience of the organization's strategy, taking into consideration different climate related scenarios, including a 2°C or lower scenario.

#### (C3.1c) Explain how climate-related issues are integrated into your business objectives and strategy.

##### Question dependencies



This question only appears if you select "Yes" in response to C3.1.

Change from 2017

Minor Change (2017 CC2.2a)

Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

Connection to other frameworks

TCFD

Strategy recommended disclosure b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.

(C3.1d) Provide details of your organization's use of climate-related scenario analysis.

Question dependencies

This question only appears if you select "Yes, qualitative", "Yes, quantitative" or "Yes, qualitative and quantitative" in response to C3.1a.

Change from 2017

New question

Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Climate-related scenarios	Details
Select from: <ul style="list-style-type: none"><li>● 2DS</li><li>● IEA 450</li><li>● Greenpeace</li><li>● DDPP</li><li>● IRENA</li><li>● RCP 2.6</li><li>● IEA B2DS</li><li>● IEA Sustainable development scenario</li><li>● Nationally determined contributions (NDCs)</li><li>● Other, please specify</li></ul>	Organizations should disclose their inputs, assumptions and analytical methods used for this scenario. For existing scenarios (e.g. IEA 450 etc.), organizations should disclose how they have altered/changed the inputs, assumptions or analytical methods to cater to their needs.

[Add Row]

Connection to other frameworks

TCFD

Strategy recommended disclosure c) Describe the resilience of the organization's strategy, taking into consideration different climate related scenarios, including a 2°C or lower scenario.

(C3.1f) Why are climate-related issues not integrated into your business objectives and strategy?

**Question dependencies**

This question only appears if you select "No" in response to C3.1.

**Change from 2017**

Minor Change (2017 CC2.2b)

**Response options**

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

**(C3.1g) Why does your organization not use climate-related scenario analysis to inform your business strategy?****Question dependencies**

This question only appears if you select "No, but we anticipate doing so in the next two years" or "No, and we do not anticipate doing so in the next two years" in response to C3.1a.

**Change from 2017**

New question

**Response options**

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

# C4 Targets and performance

## Targets

(C4.1) Did you have an emissions target that was active in the reporting year?

Change from 2017

Modified question (2017 CC3.1)

Response options

Select one of the following options:

- Absolute target
- Intensity target
- Both absolute and intensity targets
- No target

Connection to other frameworks

TCFD

Metrics & Targets recommended disclosure c) Describe the targets used by the organization to manage climate related risks and opportunities and performance against targets.

(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

Question dependencies

This question only appears if you select "Absolute target" or "Both absolute and intensity targets" in response to C4.1.

Change from 2017

Modified question (2017 CC3.1a, CC3.1e)

Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Target reference number	Scope	% emissions in Scope	% reduction from base year	Base year	Start year	Base year emissions covered by target (metric tons CO2e)	Target year
Select from:  Abs1-Abs15	Select from drop-down options below	Percentage field	Percentage field	Numerical field	Numerical field	Numerical field	Numerical field

[Add Row]

Scope drop-down options:

Select one of the following options:

- Scope 1
- Scope 2 (location-based)
- Scope 2 (market-based)
- Scope 1+2 (location-based)
- Scope 1+2 (market-based)
- Scope 1+2 (location-based) +3 (upstream)
- Scope 1+2 (location-based) +3 (downstream)
- Scope 1+2 (location-based) +3 (upstream & downstream)
- Scope 1+2 (market-based) +3 (upstream)
- Scope 1+2 (market-based) +3 (downstream)
- Scope 1+2 (market-based) +3 (upstream & downstream)
- Scope 3: Purchased goods and services
- Scope 3: Capital goods
- Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)
- Scope 3: Upstream transportation and distribution
- Scope 3: Waste generated in operations
- Scope 3: Business travel
- Scope 3: Employee commuting
- Scope 3: Upstream leased assets
- Scope 3: Investments
- Scope 3: Downstream transportation and distribution
- Scope 3: Processing of sold products
- Scope 3: Use of sold products
- Scope 3: End-of-life treatment of sold products
- Scope 3: Downstream leased assets
- Scope 3: Franchises
- Other, please specify

Is this a science-based target? drop-down options:

Select one of the following options:

- Yes, this target has been approved as science-based by the Science-Based Targets initiative
- Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative
- No, but we are reporting another target that is science-based
- No, but we anticipate setting one in the next 2 years
- No, and we do not anticipate setting one in the next 2 years

**Connection to other frameworks**

TCFD

Metrics & Targets recommended disclosure c) Describe the targets used by the organization to manage climate related risks and opportunities and performance against targets.

**(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).**

**Question dependencies**

This question only appears if you select "Intensity target" or "Both absolute and intensity target" in response to C4.1.

**Change from 2017**

Modified question (2017 CC3.1b, CC3.1c, CC3.1e)

**Response options**

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Target reference number	Scope	% emissions in Scope	% reduction from baseline year	Metric	Base year	Start year	Normalized baseline year emissions covered by target (metric tons CO2e)
Select from:  Int1-Int15	Select from drop-down options below	Percentage field	Percentage field	Select from drop-down options below	Numerical field	Numerical field	Numerical field

[Add Row]

Scope drop-down options:

Select one of the following options:

- Scope 1
- Scope 2 (location-based)
- Scope 2 (market-based)
- Scope 1+2 (location-based)
- Scope 1+2 (market-based)
- Scope 1+2 (location-based) +3 (upstream)
- Scope 1+2 (location-based) +3 (downstream)
- Scope 1+2 (location-based) +3 (upstream & downstream)
- Scope 1+2 (market-based) +3 (upstream)
- Scope 1+2 (market-based) +3 (downstream)
- Scope 1+2 (market-based) +3 (upstream & downstream)
- Scope 3: Purchased goods and services
- Scope 3: Capital goods
- Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)
- Scope 3: Upstream transportation and distribution
- Scope 3: Waste generated in operations
- Scope 3: Business travel

- Scope 3: Employee commuting
- Scope 3: Upstream leased assets
- Scope 3: Investments
- Scope 3: Downstream transportation and distribution
- Scope 3: Processing of sold products
- Scope 3: Use of sold products
- Scope 3: End-of-life treatment of sold products
- Scope 3: Downstream leased assets
- Scope 3: Franchises
- Other, please specify

Metric drop-down options:

Select one of the following options from the drop-down menu below. Those with an asterisk (\*) are the metrics that can be evaluated against science-based target setting methods (see Technical Note on Science-Based Targets):

- Grams CO2e per revenue passenger kilometer\*
- Metric tons CO2e per USD(\$) value-added\*
- Metric tons CO2e per square meter\*
- Metric tons CO2e per metric ton of aluminum\*
- Metric tons CO2e per metric ton of steel\*
- Metric tons CO2e per metric ton of cement\*
- Metric tons CO2e per metric ton of cardboard\*
- Grams CO2e per kilometer\*
- Metric tons CO2e per unit revenue
- Metric tons CO2e per unit FTE employee
- Metric tons CO2e per unit hour worked
- Metric tons CO2e per metric ton of product
- Metric tons of CO2e per liter of product
- Metric tons CO2e per unit of production
- Metric tons CO2e per unit of service provided
- Metric tons CO2e per square foot\*
- Metric tons CO2e per kilometer
- Metric tons CO2e per passenger kilometer\*
- Metric tons CO2e per megawatt hour (MWh)\*
- Metric tons CO2e per barrel of oil equivalent (BOE)
- Metric tons CO2e per vehicle produced\*
- Metric tons CO2e per metric ton of ore processed
- Metric tons CO2e per ounce of gold
- Metric tons CO2e per ounce of platinum
- Metric tons of CO2e per metric ton of aggregate
- Metric tons of CO2e per billion (currency) funds under management
- Other, please specify

Is this a science-based target? drop-down options:

Select one of the following options:

- Yes, this target has been approved as science-based by the Science Based Targets initiative
- Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science Based Targets initiative
- No, but we are reporting another target that is science-based
- No, but we anticipate setting one in the next 2 years
- No, and we do not anticipate setting one in the next 2 years

### Connection to other frameworks

#### TCFD

Metrics & Targets recommended disclosure c) Describe the targets used by the organization to manage climate related risks and opportunities and performance against targets.

**(C4.1c) Explain why you do not have an emissions target, and forecast how your emissions will change over the next five years.**

### Question dependencies

This question only appears if you select "No target" in response to C4.1.

### Change from 2017

Modified question (2017 CC3.1f)

### Response options

Please complete the following table:

Primary reason	Five-year forecast	Please explain
Select from: <ul style="list-style-type: none"><li>• We are planning to introduce a target in the next two years</li><li>• Important but not an immediate business priority</li><li>• Judged to be unimportant, explanation provided</li><li>• Lack of internal resources</li><li>• Insufficient data on operations</li><li>• No instruction from management</li><li>• Other, please specify</li></ul>	Text field	Text field

## Other climate-related targets

**(C4.2) Provide details of other key climate-related targets not already reported in question C4.1/a/b.**

### Change from 2017

Modified question (2017 CC3.1d)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Target	KPI – Metric numerator	KPI – Metric denominator (intensity targets only)	Baseline year	Start year	Target year	KPI in baseline year	KPI in target year
Select from: <ul style="list-style-type: none"><li>• Energy productivity</li><li>• Renewable energy consumption</li><li>• Renewable energy production</li><li>• Renewable fuel</li><li>• Waste</li><li>• Zero/low-carbon vehicle</li><li>• Energy usage</li><li>• Land use</li><li>• Methane reduction target</li><li>• Engagement with suppliers</li><li>• R&amp;D investments</li><li>• Other, please specify</li></ul>	Text field	Text field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field

[Add Row]

### Connection to frameworks

TCFD

Metrics & Targets recommended disclosure a) Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.

## Emissions reduction initiatives

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Change from 2017

No change (2017 CC3.3)

### Response options

Select one of the following options:

- Yes
- No

(C4.3a) Identify the total number of projects at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

### Question dependencies

This question only appears if you select “Yes” in response to C4.3.



**Change from 2017**

No change (2017 CC3.3a)

**Response options**

Please complete the following table:

Stage of development	Number of projects	Total estimated annual CO2e savings in metric tons CO2e (only for rows marked *)
Under investigation	Numerical field	Numerical field
To be implemented*		
Implementation commenced*		
Implemented*		
Not to be implemented		

**(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.****Question dependencies**

This question only appears if you select "Yes" in response to C4.3.

**Change from 2017**

Minor change (2017 CC3.3b)

**Response options**

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Activity type	Description of activity	Estimated annual CO2e savings (metric tons CO2e)	Scope	Voluntary/ Mandatory	Annual monetary savings (unit currency, as specified in C0.4)	Investment required (unit currency, as specified in C0.4)	Payback period
Select from: <ul style="list-style-type: none"> <li>Energy efficiency: Building fabric</li> <li>Energy efficiency: Building services</li> <li>Energy efficiency: Processes</li> <li>Fugitive emissions reductions</li> <li>Low-carbon energy purchase</li> <li>Low-carbon energy installation</li> <li>Process emissions reductions</li> <li>Other, please specify</li> </ul>	Select from drop-down options below	Numerical field	Select from: <ul style="list-style-type: none"> <li>Scope 1</li> <li>Scope 2 (location-based)</li> <li>Scope 2 (market-based)</li> <li>Scope 3</li> </ul>	Select from: <ul style="list-style-type: none"> <li>Voluntary</li> <li>Mandatory</li> </ul>	Numerical field	Numerical field	Select from: <ul style="list-style-type: none"> <li>&lt;1 year</li> <li>1-3 years</li> <li>4-10 years</li> <li>11-15 years</li> <li>16-20 years</li> <li>21-25 years</li> <li>&gt;25 years</li> </ul>

[Add Row]

Description of activity drop-down options:

Select one of the following options:

Energy efficiency: Building fabric

- Insulation
- Maintenance program
- Other, please specify

Energy efficiency: Building services

- Building controls
- HVAC
- Lighting
- Motors and drives
- Combined heat and power
- Other, please specify

Energy efficiency: Processes

- Heat recovery
- Cooling technology
- Refrigeration
- Process optimization
- Fuel switch
- Compressed air
- Combined heat and power
- Waste water treatment
- Water reuse
- Reuse of steam
- Machine replacement
- Other, please specify

Fugitive emissions reductions

- Agriculture methane capture
- Agriculture N2O reductions,
- Landfill methane capture,
- Oil/natural gas methane leak capture/prevention
- Refrigerant leakage reduction
- Other, please specify

Low-carbon energy purchase

- Biomass
- Biogas
- Fuel Cells
- Geothermal
- Hydro
- Solar Hot Water
- Solar PV
- Solar CPV
- Natural Gas
- Nuclear
- Carbon Capture & Storage
- Other, please specify

#### Low-carbon energy installation

- Biomass
- Biogas
- Fuel Cells
- Geothermal
- Hydro
- Solar Hot Water
- Solar PV
- Solar CPV
- Natural Gas
- Carbon Capture & Storage
- Other, please specify

#### Process emissions reductions

- New equipment
- Changes in operations
- Process materials selection
- Process water
- Other, please specify

### (C4.3c) What methods do you use to drive investment in emissions reduction activities?

#### Question dependencies

This question only appears if you select “Yes” in response to C4.3.

#### Change from 2017

No change (2017 CC3.3c)

#### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Method	Comment
Select from: <ul style="list-style-type: none"> <li>● Compliance with regulatory requirements/standards</li> <li>● Dedicated budget for energy efficiency</li> <li>● Dedicated budget for low-carbon product R&amp;D</li> <li>● Dedicated budget for other emissions reduction activities</li> <li>● Employee engagement</li> <li>● Financial optimization calculations</li> <li>● Internal price on carbon</li> <li>● Internal incentives/recognition programs</li> <li>● Internal finance mechanisms</li> <li>● Lower return on investment (ROI) specification</li> <li>● Marginal abatement cost curve</li> <li>● Partnering with governments on technology development</li> <li>● Other</li> </ul>	Text field

[Add Row]

#### (C4.3d) Why did you not have any emissions reduction initiatives active during the reporting year?

##### Question dependencies

This question only appears if you select "No" in response to C4.3.

##### Change from 2017

Minor change (2017 CC3.3d)

##### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

#### Question C4.4 only applies to organizations with activities in the following sectors:

- Agricultural commodities
- Food, beverage & tobacco
- Paper & forestry

## Low-carbon products

#### (C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?

##### Change from 2017

No change (2017 CC3.2)

##### Response options

Select one of the following options:

- Yes
- No

**(C4.5a) Please provide details of your products and/or services that you classify as low-carbon products or that enable a third party to avoid GHG emissions.**

**Question dependencies**

This question only appears if you select "Yes" in response to C4.5.

**Change from 2017**

Modified question (2017 CC3.2a)

**Response options**

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Level of aggregation	Description of product/ Group of products	Are these low-carbon product(s) or do they enable avoided emissions?	Taxonomy, project, or methodology used to classify product(s) as low-carbon or to calculate avoided emissions	% revenue from low-carbon product(s) in the reporting year	Comment
Select from: <ul style="list-style-type: none"><li>● Product</li><li>● Group of products</li><li>● Company-wide</li></ul>	Text field	Select from: <ul style="list-style-type: none"><li>● Low-carbon product</li><li>● Avoided emissions</li><li>● Low-carbon product and avoided emissions</li></ul>	Select from: <ul style="list-style-type: none"><li>● Low-Carbon Investment (LCI) Registry Taxonomy</li><li>● Climate Bonds Taxonomy</li><li>● Addressing the Avoided Emissions Challenge- Chemicals sector</li><li>● Evaluating the carbon reducing impacts of ICT</li><li>● Other, please specify</li></ul>	Numerical field	Text field

[Add Row]

## C5 Emissions methodology

### Base year emissions

#### (C5.1) Provide your base year and base year emissions (Scopes 1 and 2).

##### Change from 2017

No change (2017 CC7.1)

##### Response options

Please complete the following table:

Scope	Base year start	Base year end	Base year emissions (metric tons CO2e)	Comment
Scope 1	Use the calendar button or enter dates manually in the format DD/MM/YYYY	Use the calendar button or enter dates manually in the format DD/MM/YYYY	Numerical field [enter a number from 0-999,999,999,999 using a maximum of 2 decimal places and no commas]	Text field [maximum 2,400 characters]
Scope 2 (location-based)				
Scope 2 (market-based)				

### Emissions methodology

#### (C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions.

##### Change from 2017

No change (2017 CC7.2)

##### Response options

Select all that apply from the following options:

- ABI Energia Linee Guida
- Act on the Rational Use of Energy
- American Petroleum Institute Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry, 2009
- Australia - National Greenhouse and Energy Reporting Act
- Bilan Carbone
- Brazil GHG Protocol Programme
- Canadian Association of Petroleum Producers, Calculating Greenhouse Gas Emissions, 2003
- China Corporate Energy Conservation and GHG Management Programme
- Defra Voluntary 2017 Reporting Guidelines
- ENCORD: Construction CO2e Measurement Protocol
- Energy Information Administration 1605B

- Environment Canada, Sulphur hexafluoride (SF6) Emission Estimation and Reporting Protocol for Electric Utilities
- Environment Canada, Aluminum Production, Guidance Manual for Estimating Greenhouse Gas Emissions
- Environment Canada, Base Metals Smelting/Refining, Guidance Manual for Estimating Greenhouse Gas Emissions
- Environment Canada, Cement Production, Guidance Manual for Estimating Greenhouse Gas Emissions
- Environment Canada, Primary Iron and Steel Production, Guidance Manual for Estimating Greenhouse Gas Emissions
- Environment Canada, Lime Production, Guidance Manual for Estimating Greenhouse Gas Emissions
- Environment Canada, Primary Magnesium Production and Casting, Guidance Manual for Estimating Greenhouse Gas Emissions
- Environment Canada, Metal Mining, Guidance Manual for Estimating Greenhouse Gas Emissions
- EPRA (European Public Real Estate Association) guidelines, 2011
- European Union Emission Trading System (EU ETS): The Monitoring and Reporting Regulation (MMR) – General guidance for installations
- European Union Emissions Trading System (EU ETS): The Monitoring and Reporting Regulation (MMR) – General guidance for aircraft operators
- Hong Kong Environmental Protection Department, Guidelines to Account for and Report on Greenhouse Gas Emissions and Removals for Buildings, 2010
- ICLEI Local Government GHG Protocol
- India GHG Inventory Programme
- International Wine Industry Greenhouse Gas Protocol and Accounting Tool
- IPCC Guidelines for National Greenhouse Gas Inventories, 2006
- IPIECA's Petroleum Industry Guidelines for reporting GHG emissions, 2003
- IPIECA's Petroleum Industry Guidelines for reporting GHG emissions, 2nd edition, 2011
- ISO 14064-1
- Japan Ministry of the Environment, Law Concerning the Promotion of the Measures to Cope with Global Warming, Superseded by Revision of the Act on Promotion of Global Warming Countermeasures (2005 Amendment)
- Korea GHG and Energy Target Management System Operating Guidelines
- New Zealand - Guidance for Voluntary, Corporate Greenhouse Gas Reporting
- Philippine Greenhouse Gas Accounting and Reporting Programme (PhilGARP)
- Programa GEI Mexico
- Regional Greenhouse Gas Initiative (RGGI) Model Rule
- Smart Freight Centre: GLEC Framework for Logistics Emissions Methodologies
- Taiwan - GHG Reduction Act
- Thailand Greenhouse Gas Management Organization: The National Guideline Carbon Footprint for organization
- The Climate Registry: Electric Power Sector (EPS) Protocol
- The Climate Registry: General Reporting Protocol
- The Climate Registry: Local Government Operations (LGO) Protocol
- The Climate Registry: Oil & Gas Protocol
- The Cool Farm Tool
- The GHG Indicator: UNEP Guidelines for Calculating Greenhouse Gas Emissions for Businesses and Non-Commercial Organizations
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- The Greenhouse Gas Protocol Agricultural Guidance: Interpreting the Corporate Accounting and Reporting Standard for the Agricultural Sector
- The Greenhouse Gas Protocol: Public Sector Standard
- The Tokyo Cap-and Trade Program
- US EPA Climate Leaders: Direct Emissions from Iron and Steel Production<sup>1</sup>
- US EPA Climate Leaders: Direct Emissions from Municipal Solid Waste Landfilling<sup>1</sup>
- US EPA Climate Leaders: Direct HFC and PFC Emissions from Manufacturing Refrigeration and Air Conditioning Equipment<sup>1</sup>
- US EPA Climate Leaders: Direct HFC and PFC Emissions from Use of Refrigeration and Air Conditioning Equipment<sup>1</sup>

- US EPA Climate Leaders: Indirect Emissions from Purchases/ Sales of Electricity and Steam<sup>1</sup>
- US EPA Climate Leaders: Direct Emissions from Stationary Combustion<sup>1</sup>
- US EPA Climate Leaders: Direct Emissions from Mobile Combustion Sources<sup>1</sup>
- US EPA Mandatory Greenhouse Gas Reporting Rule
- WBCSD: The Cement CO<sub>2</sub> and Energy Protocol
- World Steel Association CO<sub>2</sub> emissions data collection guidelines
- Other, please specify

**(C5.2a) Provide details of the standard, protocol, or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions.**

#### Question dependencies

This question only appears if you select "Other, please specify" in response to C5.2.

#### Change from 2017

No change (2017 CC7.2a)

#### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.



## C6 Emissions data

### Scope 1 emissions data

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Change from 2017

No change (2017 CC8.2)

Response options

Numerical field

Connection to other frameworks

TCFD

Metrics & Targets recommended disclosure b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks.

### Scope 2 emissions reporting

(C6.2) Describe your organization's approach to reporting Scope 2 emissions.

Change from 2017

No change (2017 CC8.3)

Response options

Please complete the following table:

Scope 2, location-based	Scope 2, market-based	Comment
Select from: <ul style="list-style-type: none"><li>● We are reporting a Scope 2, location-based figure</li><li>● We are not reporting a Scope 2, location-based figure</li></ul>	Select from: <ul style="list-style-type: none"><li>● We are reporting a Scope 2, market-based figure</li><li>● We have no operations where we are able to access electricity supplier emission factors or residual emission factors, and are unable to report a Scope 2, market-based figure</li><li>● We have operations where we are able to access electricity supplier emission factors or residual emissions factors, but are unable to report a Scope 2, market-based figure</li></ul>	Text field

### Scope 2 emissions data

**(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?**

**Change from 2017**

No change (2017 CC8.3a)

**Response options**

Please complete the following table:

Scope 2, location-based	Scope 2, market-based (if applicable)	Comment
Numerical field	Numerical field	Text field

**Connection to other frameworks**

**TCFD**

Metrics & Targets recommended disclosure b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks.

**(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?**

**Change from 2017**

No change (2017 CC8.4)

**Response options**

Select one of the following options:

- Yes
- No

**(C6.4a) Provide details of the sources of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure.**

**Question dependencies**

This question only appears if you select "Yes" in response to C6.4.

**Change from 2017**

No change (2017 CC8.4a)

**Response options**

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Source	Relevance of Scope 1 emissions from this source	Relevance of location-based Scope 2 emissions from this source	Relevance of market-based Scope 2 emissions from this source (if applicable)	Explain why this source is excluded
Text field	Select from: <ul style="list-style-type: none"> <li>No emissions excluded</li> <li>No emissions from this source</li> <li>Emissions are not relevant</li> <li>Emissions are relevant but not yet calculated</li> <li>Emissions are relevant and calculated, but not disclosed</li> <li>Emissions excluded due to recent acquisition</li> <li>Emissions are not evaluated</li> </ul>	Select from: <ul style="list-style-type: none"> <li>No emissions excluded</li> <li>No emissions from this source</li> <li>Emissions are not relevant</li> <li>Emissions are relevant but not yet calculated</li> <li>Emissions are relevant and calculated, but not disclosed</li> <li>Emissions excluded due to a recent acquisition</li> <li>Emissions are not evaluated</li> </ul>	Select from: <ul style="list-style-type: none"> <li>No emissions excluded</li> <li>No emissions from this source</li> <li>Emissions are not relevant</li> <li>Emissions are relevant but not yet calculated</li> <li>Emissions are relevant and calculated, but not disclosed</li> <li>Emissions excluded due to a recent acquisition</li> <li>Emissions are not evaluated</li> </ul>	Text field

[Add Row]

## Scope 3 emissions data

### (C6.5) Account for your organization's Scope 3 emissions, disclosing and explaining any exclusions.

#### Change from 2017

No change (2017 CC14.1)

#### Response options

Please complete the following table:

Sources of Scope 3 emissions	Evaluation status	Metric tons CO2e	Emissions calculation methodology	Percentage of emissions calculated using data obtained from suppliers or value chain partners	Explanation
Purchased goods and services	Select from: <ul style="list-style-type: none"> <li>Relevant, calculated</li> <li>Relevant, not yet calculated</li> <li>Not relevant, calculated</li> <li>Not relevant, explanation provided</li> <li>Not evaluated</li> </ul>	Numerical field	Text field	Numerical field	Text field
Capital goods					
Fuel-and-energy-related activities (not included in Scope 1 or 2)					
Upstream transportation and distribution					
Waste generated in operations					
Business travel					
Employee commuting					
Upstream leased assets					
Downstream transportation and distribution					
Processing of sold products					
Use of sold products					
End of life treatment of sold products					
Downstream leased assets					
Franchises					
Investments					
Other (upstream)					
Other (downstream)					

## Connection to other frameworks

### TCFD

Metrics & Targets recommended disclosure b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks.

## Carbon dioxide emissions from biologically sequestered carbon

(C6.7) Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

Change from 2017

No change (2017 CC8.9)

Response options

Select one of the following options:

- Yes
- No

(C6.7a) Provide the emissions from biologically sequestered carbon relevant to your organization in metric tons CO2.

Question Dependencies

This question only appears if you select "Yes" in response to C6.7.

Change from 2017

No change (2017 CC8.9a)

Response options

Numerical field

Questions C6.8 and C6.9 only apply to organizations with activities in the following sectors:

- Agricultural commodities
- Food, beverage & tobacco
- Paper & forestry

Emissions intensities

(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Change from 2017

Modified question (2017 CC12.2, CC12.3)

Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Intensity figure	Metric numerator (Gross global combined Scope 1 and 2 emissions)	Metric denominator	Metric denominator: Unit total	Scope 2 figure used	% change from previous year	Direction of change	Reason for change
Numerical field [enter a number from 0-99,999,999,999 using a maximum of 10 decimal places and no commas]	Metric tons CO2e Numerical field [enter a number from 0-99,999,999,999 using a maximum of 2 decimal places and no commas]	Select from: <ul style="list-style-type: none"> <li>unit total revenue</li> <li>barrel of oil equivalent (BOE)</li> <li>billion (currency) funds under management</li> <li>full time equivalent (FTE) employee</li> <li>kilometer</li> <li>liter of product</li> <li>megawatt hour generated (MWh)</li> <li>megawatt hour transmitted (MWh)</li> <li>metric ton of product</li> <li>ounce of gold</li> <li>ounce of platinum</li> <li>passenger kilometer</li> <li>room night produced</li> <li>square foot</li> <li>square meter</li> <li>metric ton of aggregate</li> <li>metric ton of aluminum</li> <li>metric ton of coal</li> <li>metric ton of ore processed</li> <li>metric ton of steel</li> <li>unit hour worked</li> <li>unit of production</li> <li>unit of service provided</li> <li>vehicle produced</li> <li>Other, please specify</li> </ul>	Numerical field [enter a number from 0-10,000,000,000,000,000 using a maximum of 2 decimal places and no commas]	Select from: <ul style="list-style-type: none"> <li>Location-based</li> <li>Market-based</li> </ul>	Numerical field [enter a number from -0 to 999 using a maximum of 2 decimal places]	Select from: <ul style="list-style-type: none"> <li>Increased</li> <li>Decreased</li> <li>No change</li> </ul>	Text field [maximum 2,400 characters]

[Add Row]

# C7 Emissions breakdown

## Scope 1 breakdown: GHGs

(C7.1) Does your organization have greenhouse gas emissions other than carbon dioxide?

Change from 2017

New question

Response options

Select one of the following options:

- Yes
- No
- Don't know

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type providing the used global warming potential (GWP), and the source of each GWP.

Question Dependencies

This question only appears if you select "Yes" in response to C7.1.

Change from 2017

Modified question (2017 CC7.3, CC9.2c)

Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Greenhouse gas	Scope 1 emissions (metric tons of selected GHG, in CO2e)	GWP Reference
Select from: <ul style="list-style-type: none"><li>● CO2</li><li>● CH4</li><li>● N2O</li><li>● HFCs</li><li>● PFCs</li><li>● SF6</li><li>● NF3</li><li>● Other, please specify</li></ul>	Numerical field	Select from: <ul style="list-style-type: none"><li>● IPCC Fifth Assessment Report (AR5 – 100 year)</li><li>● IPCC Fourth Assessment Report (AR4 - 100 year)</li><li>● IPCC Third Assessment Report (TAR - 100 year)</li><li>● IPCC Second Assessment Report (SAR - 100 year)</li><li>● IPCC Fourth Assessment Report (AR4 - 50 year)</li><li>● IPCC Third Assessment Report (TAR - 50 year)</li><li>● IPCC Second Assessment Report (SAR - 50 year)</li><li>● IPCC Fifth Assessment Report (AR5 – 20 year)</li><li>● IPCC Fourth Assessment Report (AR4 - 20 year)</li><li>● IPCC Third Assessment Report (TAR - 20 year)</li><li>● IPCC Second Assessment Report (SAR - 20 year)</li><li>● Other, please specify</li></ul>

[Add Row]

(C7.2) Break down your total gross global Scope 1 emissions by country/region.

### Change from 2017

No change (2017 CC9.1a)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Country/Region	Scope 1 emissions (metric tons CO2e)
Select from a drop-down list of countries and regions. Please see the Technical Note “ <a href="#">Country Regions</a> ” for details around the available regions and their constituent countries.	Numerical field

[Add Row]

### (C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

### Change from 2017

Modified question (2017 CC9.2)

### Response options

Select all that apply from the following options:

- By business division (not applicable for companies responding to sector questionnaires)
- By facility
- By activity (not applicable for companies responding to sector questionnaires)

### (C7.3a) Break down your total gross global Scope 1 emissions by business division.

### Question dependencies

This question only appears if you select “By business division” in response to C7.3.

### Change from 2017

No change (2017 CC9.2a)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Business division	Scope 1 emissions (metric tons CO2e)
Text field	Numerical field

[Add Row]

### (C7.3b) Break down your total gross global Scope 1 emissions by business facility.

### Question Dependencies

This question only appears if you select “By facility” in response to C7.3.

### Change from 2017

No change (2017 CC9.2b)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.



Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Text field	Numerical field	Enter the latitude of your facility here using numbers between 90.000000 and -90.000000, e.g. 51.524810	Enter the longitude of your facility using numbers between 180.000000 and -180.000000, e.g. -0.106958

[Add Row]

### (C7.3c) Break down your total gross global Scope 1 emissions by business activity.

#### Question Dependencies

This question only appears if you select "By activity" in response to C7.3.

#### Change from 2017

No change (2017 CC9.2d)

#### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Activity	Scope 1 emissions (metric tons CO2e)
Text field	Numerical field

[Add Row]

#### Question C7.4 only applies to organizations with activities in the following sectors:

- Agricultural commodities
- Food, beverage & tobacco
- Paper & forestry
- Coal
- Electric utilities
- Oil and gas
- Cement
- Chemical
- Metals and mining
- Steel
- Transport OEMs
- Transport services

## Scope 2 breakdown: country

### (C7.5) Break down your total gross global Scope 2 emissions by country/region.

#### Change from 2017

No change (2017 CC10.1a)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)
Select from a drop-down list of countries and regions. Please see the Technical Note “ <a href="#">Country Regions</a> ”, for details around the available regions and their constituent countries.	Numerical field	Numerical field	Numerical field	Numerical field

[Add Row]

## Scope 2: business breakdowns

**(C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.**

### Change from 2017

No change (2017 CC10.2)

### Response options

Select all that apply from the following options:

- By business division (not applicable for companies responding to sector questionnaires)
- By facility
- By activity (not applicable for companies responding to sector questionnaires)

**(C7.6a) Break down your total gross global Scope 2 emissions by business division.**

### Question dependencies

This question only appears if you select “By business division” in response to C7.6.

### Change from 2017

No change (2017 CC10.2a)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Text field	Numerical field	Numerical field

[Add Row]

**(C7.6b) Break down your total gross global Scope 2 emissions by business facility.**

### Question dependencies

This question only appears if you select “By facility” in response to C7.6.

**Change from 2017**

No change (2017 CC10.2b)

**Response options**

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Facility	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Text field	Numerical field	Numerical field

[Add Row]

**(C7.6c) Break down your total gross global Scope 2 emissions by business activity.**

**Question dependencies**

This question only appears if you select “By activity” in response to C7.6.

**Change from 2017**

No change (2017 CC10.2c)

**Response options**

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Activity	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Text field	Numerical field	Numerical field

[Add Row]

**Question C-CE7.7/C-CH7.7/C-CO7.7/C-EU7.7/C-MM7.7/C-OG7.7/C-ST7.7/C-TO7.7/C-TS7.7 only applies to organizations with activities in the following sectors:**

- Cement
- Chemicals
- Coal
- Electric utilities
- Metals & mining
- Oil & gas
- Steel
- Transport OEMS
- Transport services

**Question C7.8 only applies to organizations with activities in the following sectors:**

- Chemicals
- Transport manufacturers

**Emissions performance**

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Change from 2017

Minor change (2017 CC12.1)

Response options

Select one of the following options:

- Increased
- Decreased
- Remained the same overall
- This is our first year of reporting, so we cannot compare to last year
- We don't have any emissions data

(C7.9a) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.

Question dependencies

This question only appears if you select "Increased", "Decreased" or "Remained the same overall" in response to C7.9.

Change from 2017

Modified question (2017 CC12.1a)

Response options

Please complete the following table:

Reason	Change in emissions (metric tons CO2e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	Numerical field	Select from: <ul style="list-style-type: none"><li>● Increased</li><li>● Decreased</li><li>● No change</li></ul>	Numerical field	Text field
Other emissions reduction activities				
Divestment				
Acquisitions				
Mergers				
Change in output				
Change in methodology				
Change in boundary				
Change in physical operating conditions				
Unidentified				
Other				

**(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?**

**Question dependencies**

This question only appears if you select "Increased", "Decreased" or "Remained the same overall" in response to C7.9.

**Change from 2017**

No change (2017 CC12.1b)

**Response options**

Select one of the following options:

- Location-based
- Market-based
- Don't know

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## C8 Energy

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### Energy spend

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**(C8.1) What percentage of your total operational spend in the reporting year was on energy?**

**Change from 2017**

No change (2017 CC11.1)

**Response options**

Select one of the following options:

- ☐ 0%
- ☐ More than 0% but less than or equal to 5%
- ☐ More than 5% but less than or equal to 10%
- ☐ More than 10% but less than or equal to 15%
- ☐ More than 15% but less than or equal to 20%
- ☐ More than 20% but less than or equal to 25%
- ☐ More than 25% but less than or equal to 30%
- ☐ More than 30% but less than or equal to 35%
- ☐ More than 35% but less than or equal to 40%
- ☐ More than 40% but less than or equal to 45%
- ☐ More than 45% but less than or equal to 50%
- ☐ More than 50% but less than or equal to 55%
- ☐ More than 55% but less than or equal to 60%
- ☐ More than 60% but less than or equal to 65%
- ☐ More than 65% but less than or equal to 70%
- ☐ More than 70% but less than or equal to 75%
- ☐ More than 75% but less than or equal to 80%
- ☐ More than 80% but less than or equal to 85%
- ☐ More than 85% but less than or equal to 90%
- ☐ More than 90% but less than or equal to 95%
- ☐ More than 95% but less than or equal to 100%
- ☐ Don't know

### Energy-related activities

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**(C8.2) Select which energy-related activities your organization has undertaken.**

**Question Dependencies**

The energy-related activities that you select in response to C8.2 determine which energy breakdowns you will be prompted to respond to in the proceeding questions. Please note, if your response to C8.2 is amended, data in dependent questions may be erased.

Change from 2017

New question

Response options

Please complete the following table:

Activity	Indicate whether your organization undertakes this energy-related activity
Consumption of fuel (excluding feedstocks)	Select from:  Yes No
Consumption of purchased or acquired electricity	
Consumption of purchased or acquired heat	
Consumption of purchased or acquired steam	
Consumption of purchased or acquired cooling	
Generation of electricity, heat, steam, or cooling	

(C8.2a) Report your organization’s energy consumption totals (excluding feedstocks) in MWh.

Question dependencies

This question only appears if you select “Yes” to any of the activities listed in C8.2. A row will appear in this table for each energy-related activity selected in C8.2. The “Total energy consumption” row will always appear.

Change from 2017

Modified question (2017 CC11.2, CC11.5)

Response options

Please complete the following table:

Energy carrier	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total MWh
Consumption of fuel (MWh's in LHV)	Select from: <ul style="list-style-type: none"> <li>LHV (lower heating value)</li> <li>HHV (higher heating value)</li> </ul>	Numerical field	Numerical field	Numerical field
Consumption of purchased or acquired electricity	N/A			
Consumption of purchased or acquired heat	N/A			
Consumption of purchased or acquired steam	N/A			
Consumption of purchased or acquired cooling	N/A			
Consumption of self-generated non-fuel renewable energy	N/A			
Total energy consumption	N/A			

### (C8.2b) Select the applications of your organization's consumption of fuel.

#### Question Dependencies

This question only appears if you select "Yes" to "Consumption of fuel" in response to C8.2. Each option that you select in this table will appear as an additional column in C8.2c.

#### Change from 2017

New question

#### Response options

Please complete the following table:

Fuel application	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	Select from:  Yes No
Consumption of fuel for the generation of steam	
Consumption of fuel for the generation of cooling	
Consumption of fuel for co-generation or tri-generation	

### (C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

#### Question dependencies

This question only appears if you select "Consumption of fuel" in C8.2 and a column appears in the table for each fuel application selected in C8.2b. The "Total MWh consumed by the organization" and "MWh consumed for the generation of heat" columns will always appear.

#### Change from 2017

Modified question (2017 CC11.3, CC11.3a)

#### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.



Fuels	Heating value	Total MWh consumed by the organization	MWh consumed for the generation of electricity	MWh consumed for the generation of heat	MWh consumed for the generation of steam	MWh consumed for the generation of cooling	MWh consumed for cogeneration or trigeneration
Select from: Acetylene; Agricultural Waste; Alternative Kiln Fuel (Wastes); Animal Fat; Animal/Bone Meal; Anthracite Coal; Asphalt; Aviation Gasoline; Bagasse; Bamboo; Basic Oxygen Furnace Gas (LD Gas); Biodiesel; Biodiesel Tallow; Biodiesel Waste Cooking Oil; Bioethanol; Biogas; Biogasoline; Biomass Municipal Waste; Biomethane; Bitumen; Bituminous Coal; Black Liquor; Blast Furnace Gas; Brown Coal Briquettes (BKB); Burning Oil; Butane; Butylene; Charcoal; Coal; Coal Tar; Coke; Coke Oven Gas; Coking Coal; Compressed Natural Gas (CNG); Condensate; Crude Oil; Crude Oil Extra Heavy; Crude Oil Heavy; Crude Oil Light; Diesel; Distillate Oil; Dried Sewage Sludge; Ethane; Ethylene; Fuel Gas; Fuel Oil Number 1; Fuel Oil Number 2; Fuel Oil Number 4; Fuel Oil Number 5; Fuel Oil Number 6; Gas Coke; Gas Oil; Gas Works Gas; GCI Coal; General Municipal Waste; Grass; Hardwood; Heavy Gas Oil; Hydrogen; Industrial Wastes; Isobutane; Isobutylene; Jet Gasoline; Jet Kerosene; Kerosene; Landfill Gas; Light Distillate; Lignite Coal; Liquefied Natural Gas (LNG); Liquefied Petroleum Gas (LPG); Liquid Biofuel; Lubricants; Marine Fuel Oil; Marine Gas Oil; Metallurgical Coal; Methane; Motor	Select from: • LHV (lower heating value) • HHV (higher heating value)	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field

Gasoline; Naphtha; Natural Gas; Natural Gas Liquids (NGL); Natural Gasoline; Non-Biomass Municipal Waste; Non-Biomass Waste; Oil Sands; Oil Shale; Orimulsion; Other Petroleum Gas; Paraffin Waxes; Patent Fuel; PCI Coal; Peat; Pentanes Plus; Petrochemical Feedstocks; Petrol; Petroleum Coke; Petroleum Products; Pitch; Plastics; Primary Solid Biomass; Propane Gas; Propane Liquid; Propylene; Refinery Feedstocks; Refinery Gas; Refinery Oil; Residual Fuel Oil; Road Oil; SBP; Shale Oil; Sludge Gas; Softwood; Solid Biomass Waste; Special Naphtha; Still Gas; Straw; Subbituminous Coal; Sulphite Lyes; Tar; Tar Sands; Thermal Coal; Thermal Coal Commercial; Thermal Coal Domestic; Thermal Coal Industrial; Tires; Town Gas; Unfinished Oils; Vegetable Oil; Waste Oils; Waste Paper and Card; Waste Plastics; Waste Tires; White Spirit; Wood; Wood Chips; Wood Logs; Wood Pellets; Wood Waste; Other, please specify							
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[Add Row]

**(C8.2d) List the average emission factors of the fuels reported in C8.2c.**

#### Question dependencies

This question only appears if you input data into C8.2c. A corresponding row will appear for each fuel that you reported in C8.2c.

#### Change from 2017

Modified question (2017 CC7.4)

#### Response options

Please complete the following table:

Fuels	Emission factor (in units of metric tons CO2e per MWh)	Unit	Emission factor source	Comment
Select from: (Options for this column driven by fuel's selected in C8.2c)	Numerical field	Select from: <ul style="list-style-type: none"> <li>metric tons CO2e per m3</li> <li>metric tons CO2 per m3</li> <li>metric tons CO2e per liter</li> <li>metric tons CO2 per liter</li> <li>metric tons CO2e per MWh</li> <li>metric tons CO2 per MWh</li> <li>kg CO2e per liter</li> <li>kg CO2 per liter</li> <li>kg CO2e per MWh</li> <li>kg CO2 per MWh</li> <li>metric tons CO2e per GJ</li> <li>metric tons CO2 per GJ</li> <li>metric tons CO2e per metric ton</li> <li>metric tons CO2 per metric ton</li> <li>lb CO2e per 1000 ft3</li> <li>lb CO2 per 1000 ft3</li> <li>lb CO2e per gallon</li> <li>lb CO2 per gallon</li> <li>lb CO2e per barrel</li> <li>lb CO2 per barrel</li> <li>lb CO2e per million BTU</li> <li>lb CO2 per million BTU</li> <li>lb CO2e per short ton</li> <li>lb CO2 per short ton</li> <li>lb CO2e per MWh</li> <li>lb CO2 per MWh</li> </ul>	Text field	Text field

**(C8.2e) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.**

#### Question Dependencies

This question only appears if you select "Generation of electricity, heat, steam, or cooling" in response to C8.2.

#### Change from 2017

Modified question (2017 CC11.5)

#### Response options

Please complete the following table:

Energy Carrier	Total Gross generation (MWh)	Generation that is consumed by the organization (MWh)	Gross generation from renewable sources (MWh)	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	Numerical field	Numerical field	Numerical field	Numerical field
Heat				
Steam				
Cooling				

**(C8.2f) Provide details on the electricity, heat, steam, and/or cooling amounts that were accounted for at a low-carbon emission factor in the market-based Scope 2 figure reported in C6.3.**

### Question Dependencies

This question only appears if you select “Consumption of purchased or acquired electricity”, “Consumption of purchased or acquired heat”, “Consumption of purchased or acquired steam” or “Consumption of purchased or acquired cooling” in response to C8.2.

### Change from 2017

Modified question (2017 CC11.4)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Basis for applying a low-carbon emission factor	Low-carbon technology type	MWh consumed associate with low-carbon electricity, heat, steam or cooling	Emission factor (in units of metric tons CO2e per MWh)	Comment
Select from: <ul style="list-style-type: none"> <li>● No purchases or generation of low-carbon electricity, heat, steam or cooling accounted with a low-carbon emission factor</li> <li>● Off-grid energy consumption from an on-site installation or through a direct line to an off-site generator owned by another company</li> <li>● Direct procurement contract with a grid-connected generator or Power Purchase Agreement (PPA), supported by energy attribute certificates</li> <li>● Direct procurement contract with a grid-connected generator or Power Purchase Agreement (PPA), where electricity attribute certificates do not exist or are not required for a usage claim</li> <li>● Contract with suppliers or utilities, supported by energy attribute certificates</li> <li>● Contract with suppliers or utilities, with a supplier-specific emission rate, not backed by electricity attribute certificates</li> <li>● Energy attribute certificates, Guarantees of Origin</li> <li>● Energy attribute certificates, Renewable Energy Certificates (RECs)</li> <li>● Energy attribute certificates, I-RECs</li> <li>● Other, please specify</li> </ul>	Select all that apply: <ul style="list-style-type: none"> <li>● Solar PV</li> <li>● Concentrated solar power (CSP)</li> <li>● Wind</li> <li>● Hydropower</li> <li>● Nuclear</li> <li>● Biomass (including biogas)</li> <li>● Tidal</li> <li>● Other low-carbon technology, please specify</li> </ul>	Numerical field	Numerical field	Text field

[Add Row]

# C9 Additional metrics

## Other climate-related metrics

(C9.1) Provide any additional climate-related metrics relevant to your business.

### Change from 2017

New question

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Description	Metric value	Metric numerator	Metric denominator (intensity metric only)	% change from previous year	Direction of change	Please explain
Select from: Waste; Energy usage; Land use; Other, please specify	Numerical field	Text field	Text field	Numerical field	Select from: <div><div>Increased</div><div>Decreased</div><div>No change</div></div>	Text field

[Add Row]

## C10 Verification

### Verification

**(C10.1) Indicate the verification/assurance status that applies to your reported emissions.**

#### Change from 2017

Modified question (2017 CC8.6, CC8.7, CC14.2)

#### Response options

Please complete the following table:

Scope	Verification/assurance stats
Scope 1	Select from: <ul style="list-style-type: none"> <li>No emissions data provided</li> <li>No third-party verification or assurance</li> <li>Third-party verification or assurance process in place</li> </ul>
Scope 2 (location-based or market-based)	
Scope 3	

**(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 and/or Scope 2 emissions and attach the relevant statements.**

#### Question dependencies

This question only appears if you select "Third-party verification or assurance process in place" for Scope 1 and/or Scope 2 emissions in response to C10.1.

#### Change from 2017

Modified question (2017 CC8.6a, CC8.7a)

#### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Scope	Verification or assurance cycle in place	Status in the current reporting year	Type of verification or assurance	Attach the statement	Page/section reference	Relevant standard	Proportion of reported emissions verified (%)
Select from: <ul style="list-style-type: none"> <li>Scope 1</li> <li>Scope 2 location-based</li> <li>Scope 2 market-based</li> </ul>	Select from: <ul style="list-style-type: none"> <li>Annual process</li> <li>Biennial process</li> <li>Triennial process</li> </ul>	Select from: <ul style="list-style-type: none"> <li>No verification or assurance of current reporting year</li> <li>Underway but not complete for current reporting year – first year it has taken place</li> <li>Underway but not complete</li> </ul>	Select from: <ul style="list-style-type: none"> <li>Not applicable</li> <li>Limited assurance</li> <li>Moderate assurance</li> <li>Reasonable assurance</li> <li>High assurance</li> <li>Third party verification/assurance</li> </ul>	Attach your document here.	Text field	Select from: <ul style="list-style-type: none"> <li>AA1000AS</li> <li>Advanced technologies promotion Subsidy Scheme with Emission reduction Target (ASSET)</li> <li>Airport Carbon Accreditation (ACA) des</li> </ul>	Numerical field

		for reporting year – previous statement of process attached <ul style="list-style-type: none"> <li>Complete</li> </ul>	underway		Airports Council International Europe <ul style="list-style-type: none"> <li>Alberta Specified Gas              Emitters Regulation (SGER)</li> <li>ASAE3000</li> <li>Attestation standards              established by AICPA              (AT101)</li> <li>Australian National GHG              emission regulation (NGER)</li> <li>California Mandatory GHG              Reporting Regulations              (CARB)</li> <li>Canadian Institute of              Chartered Accountants              (CICA) Handbook: Assurance              Section 5025</li> <li>Certified emissions              measurement and reduction              scheme (CEMARS)</li> <li>Chicago Climate Exchange              (CCX) verification standard</li> <li>Compagnie Nationale des              Commissaires aux Comptes              (CNCC)</li> <li>Corporate GHG verification              guidelines from ERT</li> <li>DNV Verisustain Protocol/              Verification Protocol for              Sustainability Reporting</li> <li>Earthcheck Certification</li> <li>ERM GHG Performance              Data Assurance Methodology</li> <li>European Union Emissions              Trading System (EU ETS)</li> <li>IDW PS 821: IDW              Prüfungsstandard:              Grundsätze              ordnungsmäßiger Prüfung              oder prüferischer Durchsicht              von Berichten im Bereich der              Nachhaltigkeit</li> <li>IDW AsS 821: IDW              Assurance Standard:              Generally Accepted              Assurance Principles for the              Audit or Review of Reports              on Sustainability Issues</li> <li>ISAE3000</li> <li>ISAE 3410</li> </ul>
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						<ul style="list-style-type: none"> <li>• ISO14064-3</li> <li>• Japan voluntary emissions trading scheme (JVETS) guideline for verification</li> <li>• Korean GHG and energy target management system</li> <li>• NMX-SAA-14064-3-IMNC: Instituto Mexicano de Normalización y Certificación A.C</li> <li>• RevR6 procedure for assurance of sustainability report</li> <li>• Saitama Prefecture Target-Setting Emissions Trading Program</li> <li>• SGS Sustainability Report Assurance</li> <li>• Spanish Institute of Registered Auditors (ICJCE)</li> <li>• Standard 3810N Assurance engagements relating to sustainability reports of the Royal Netherlands Institute of Registered Accountants</li> <li>• State of Israel Ministry of Environmental Protection, Verification of GHG and emissions reduction in Israel Guidance Document</li> <li>• Swiss Climate CO2 Label for Businesses</li> <li>• Thai Greenhouse Gas Management Organisation (TGO) Greenhouse Gas (GHG) Verification Protocol</li> <li>• The Climate Registry's General Verification Protocol</li> <li>• Tokyo cap-and-trade guideline for verification</li> <li>• Verification as part of Carbon Trust standard certification</li> <li>• Other, please specify</li> </ul>
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[Add Row]

**(C10.1b) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.**



## Question dependencies

This question only appears if you select "Third-party verification or assurance process in place" for Scope 3 emissions in response to C10.1.

## Change from 2017

Modified question (2017 CC14.2a)

## Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Scope	Verification or assurance cycle in place	Status in the current reporting year	Attach the statement	Page/ section reference	Relevant standard
Select from: <ul style="list-style-type: none"> <li>● Scope 3- all relevant categories</li> <li>● Scope 3- at least one applicable category</li> </ul>	Select from: <ul style="list-style-type: none"> <li>● Annual process</li> <li>● Biennial process</li> <li>● Triennial process</li> </ul>	Select from: <ul style="list-style-type: none"> <li>● No verification or assurance of current reporting year</li> <li>● Underway but not complete for current reporting year – first year it has taken place</li> <li>● Underway but not complete for reporting year – previous statement of process attached</li> <li>● Complete</li> </ul>	Attach your document here.	Text field	Select from: <ul style="list-style-type: none"> <li>● AA1000AS</li> <li>● Advanced technologies promotion Subsidy Scheme with Emission reduction Target (ASSET)</li> <li>● Airport Carbon Accreditation (ACA) des Airports Council International Europe</li> <li>● Alberta Specified Gas Emitters Regulation (SGER)</li> <li>● ASAE3000</li> <li>● Attestation standards established by AICPA (AT101)</li> <li>● Australian National GHG emission regulation (NGER)</li> <li>● California Mandatory GHG Reporting Regulations (CARB)</li> <li>● Canadian Institute of Chartered Accountants (CICA)</li> </ul> Handbook: Assurance Section 5025 <ul style="list-style-type: none"> <li>● Certified emissions measurement and reduction scheme (CEMARS)</li> <li>● Chicago Climate Exchange (CCX) verification standard</li> <li>● Compagnie Nationale des Commissaires aux Comptes (CNCC)</li> <li>● Corporate GHG verification guidelines from ERT</li> <li>● DNV Verisustain Protocol/ Verification Protocol for Sustainability Reporting</li> <li>● Earthcheck Certification</li> <li>● ERM GHG Performance Data Assurance Methodology</li> <li>● European Union Emissions Trading System (EU ETS)</li> <li>● IDW PS 821: IDW Prüfungsstandard: Grundsätze ordnungsmäßiger Prüfung oder prüferischer Durchsicht von Berichtenim Bereich der Nachhaltigkeit</li> <li>● IDW AsS 821: IDW Assurance Standard: Generally Accepted Assurance Principles for the Audit or Review of Reports on Sustainability Issues</li> <li>● ISAE3000</li> <li>● ISAE 3410</li> <li>● ISO14064-3</li> <li>● Japan voluntary emissions trading scheme (JVETS) guideline for verification</li> <li>● Korean GHG and energy target management system</li> <li>● NMX-SAA-14064-3-IMNC: Instituto Mexicano de Normalización y Certificación A.C</li> </ul>

					<ul style="list-style-type: none"> <li>● RevR6 procedure for assurance of sustainability report</li> <li>● Saitama Prefecture Target-Setting Emissions Trading Program</li> <li>● SGS Sustainability Report Assurance</li> <li>● Spanish Institute of Registered Auditors (ICJCE)</li> <li>● Standard 3810N Assurance engagements relating to sustainability reports of the Royal Netherlands Institute of Registered Accountants</li> <li>● State of Israel Ministry of Environmental Protection, Verification of GHG and emissions reduction in Israel Guidance Document</li> <li>● Swiss Climate CO2 Label for Businesses</li> <li>● Thai Greenhouse Gas Management Organisation (TGO) Greenhouse Gas (GHG) Verification Protocol</li> <li>● The Climate Registry's General Verification Protocol</li> <li>● Tokyo cap-and-trade guideline for verification</li> <li>● Verification as part of Carbon Trust standard certification</li> <li>● Other, please specify</li> </ul>
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[Add Row]

## Other verified data

**(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?**

### Change from 2017

Modified question (2017 CC8.8)

### Response options

Select one of the following options:

- Yes
- In progress
- No, but we are actively considering verifying within the next two years
- No, we are waiting for more mature verification standards and/or processes
- No, we do not verify any other climate-related information reported in our CDP disclosure

**(C10.2a) Which data points within your CDP disclosure have been verified, and which verification standards were used?**

### Question dependencies

This question only appears if you select "Yes" in response to C10.2.

### Change from 2017

Modified question (2017 CC8.8)

### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Disclosure module verification relates to	Data verified	Verification standard	Please explain
Select from: <ul style="list-style-type: none"> <li>● C0. Introduction</li> <li>● C1. Governance</li> <li>● C2. Risks and opportunities</li> <li>● C3. Business Strategy</li> <li>● C4. Targets and performance</li> <li>● C5. Emissions performance</li> <li>● C6. Emissions data</li> <li>● C7. Emissions breakdown</li> <li>● C8. Energy</li> <li>● C9. Additional metrics</li> <li>● C11. Carbon pricing</li> <li>● C12. Engagement</li> <li>● C13. Other land management</li> <li>● C14. Sign off</li> <li>● SC. Supply chain module</li> </ul>	Select from: <ul style="list-style-type: none"> <li>● Year on year change in emissions (Scope 1)</li> <li>● Year on year change in emissions (Scope 2)</li> <li>● Year on year change in emissions (Scope 1 and 2)</li> <li>● Year on year change in emissions (Scope 3)</li> <li>● Year on year emissions intensity figure</li> <li>● Financial or other base year data points used to set a science-based target</li> <li>● Progress against emissions reduction target</li> <li>● Change in Scope 1 emissions against a base year (not target related)</li> <li>● Change in Scope 2 emissions against a base year (not target related)</li> <li>● Change in Scope 3 emissions against a base year (not target related)</li> <li>● Product footprint verification</li> <li>● Emissions reduction activities</li> <li>● Renewable energy products</li> <li>● Don't know</li> <li>● Other, please specify</li> </ul>	Text field	Text field

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## C11 Carbon pricing

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### Carbon pricing systems

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**(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?**

#### Change from 2017

New question

#### Response options

Select one of the following options:

- Yes
- No, but we anticipate being regulated in the next three years
- No, and we do not anticipate being regulated in the next three years

**(C11.1a) Select the carbon pricing regulation(s) which impacts your operations.**

#### Question dependencies

This question only appears if you select "Yes" in response to C11.1.

#### Change from 2017

New question

#### Response options

Select all that apply from the following options:

- Alberta carbon tax
- Alberta SGER
- Australia ERF Safeguard Mechanism
- BC carbon tax
- BC GGIRCA
- Beijing pilot ETS
- California CaT
- Chile carbon tax
- China national ETS
- Chongqing pilot ETS
- Colombia carbon tax
- Denmark carbon tax
- Estonia carbon tax
- EU ETS
- Finland carbon tax
- France carbon tax
- Fujian pilot ETS

- Guangdong pilot ETS
- Hubei pilot ETS
- Iceland carbon tax
- Ireland carbon tax
- Japan carbon tax
- Kazakhstan ETS
- Korea ETS
- Latvia carbon tax
- Liechtenstein carbon tax
- Mexico carbon tax
- New Zealand ETS
- Norway carbon tax
- Ontario CaT
- Poland carbon tax
- Portugal carbon tax
- Québec CaT
- RGGI
- Saitama ETS
- Shanghai pilot ETS
- Shenzhen pilot ETS
- Slovenia carbon tax
- Sweden carbon tax
- Switzerland carbon tax
- Switzerland ETS
- Tianjin pilot ETS
- Tokyo CaT
- UK carbon price floor
- Ukraine carbon tax
- Washington CAR
- Other, please specify

**(C11.1b) Complete the following table for each of the emissions trading systems in which you participate.**

#### Question dependencies

This question only appears if you select an emissions trading option in response to C11.1a.

#### Change from 2017

Modified question (2017 CC13.1a)

#### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

System name	% of Scope 1 emissions covered by the ETS	Period start date	Period end date	Allowances allocated	Allowances purchased	Verified emissions in metric tons CO2e	Details of ownership
Fixed table rows are populated by selection in C11.1a	Numerical field [enter a number from 0-100 using a maximum of 2 decimal places and no commas]	Use the calendar button or enter dates manually in the format DD/MM/YYYY. Please note that the period reported should overlap with the reporting year.	Use the calendar button or enter dates manually in the format DD/MM/YYYY. Please note that the period reported should overlap with the reporting year.	Numerical field [enter a number from 0-99,999,999,999 using a maximum of 2 decimal places and no commas]	Numerical field [enter a number from 0-99,999,999,999 using a maximum of 2 decimal places and no commas]	Numerical field [enter a number from 0-99,999,999,999 using a maximum of 2 decimal places and no commas]	Select from: <ul style="list-style-type: none"> <li>Facilities we own and operate</li> <li>Facilities we own but do not operate</li> <li>Facilities we operate but not own</li> <li>Other, please specify</li> </ul>

[Add Row]

### (C11.1c) Complete the following table for each of the tax systems in which you participate.

#### Question dependencies

This question only appears if you select a carbon tax system in response to C11.1a.

#### Change from 2017

New question

#### Response options

Please complete the following table

Pricing system	Period start date	Period end date	% of emissions covered by tax	Total cost of tax paid	Comment
Fixed table rows are populated by selection in C11.1a	Enter the start date that applies to the data in the row. Please note that the period reported should overlap with the reporting year. Use the calendar button or enter dates manually in the format DD/MM/YYYY	Enter the finish date that applies to the data in the row. Please note that the period reported should overlap with the reporting year. Use the calendar button or enter dates manually in the format DD/MM/YYYY	Numerical field [enter a number from 0-100 using a maximum of 2 decimal places and no commas]	Numerical field [enter a number from 0-999,999,999,999 using a maximum of 2 decimal places and no commas]	Text field [maximum 2,400 characters]

### (C11.1d) What is your strategy for complying with the systems in which you participate or anticipate participating?

#### Question dependencies

This question only appears if you select "Yes" or "No, but we anticipate being regulated in the next three years" in response to C11.1

#### Change from 2017

No change (2017 CC13.1b)

#### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

## Project-based carbon credits

**(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period?**

**Change from 2017**

No change (2017 CC13.2)

**Response options**

Select one of the following options:

- Yes
- No

**(C11.2a) Provide details of the project-based carbon credits originated or purchased by your organization in the reporting period.**

**Question dependencies**

This question only appears if you select "Yes" in response to C11.2.

**Change from 2017**

No change (2017 CC13.2a)

**Response options**

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Credit origination or credit purchase	Project type	Project identification	Verified to which standard	Number of credits (metric tons CO2e)	Number of credits (metric tons CO2e): Risk adjusted volume	Credits cancelled	Purpose, e.g. compliance
Select from: <input type="radio"/> Credit origination <input type="radio"/> Credit purchase	Select from: <input type="radio"/> Agriculture <input type="radio"/> Biomass energy <input type="radio"/> Cement <input type="radio"/> CO2 usage <input type="radio"/> Coal mine/bed CH4 <input type="radio"/> Energy distribution <input type="radio"/> Energy efficiency: households <input type="radio"/> Energy efficiency: industry <input type="radio"/> Energy efficiency: own generation <input type="radio"/> Energy efficiency: service <input type="radio"/> Energy efficiency: supply side <input type="radio"/> Forests <input type="radio"/> Fossil fuel switch <input type="radio"/> Fugitive <input type="radio"/> Geothermal <input type="radio"/> HFCs <input type="radio"/> Hydro <input type="radio"/> Landfill gas <input type="radio"/> Methane avoidance <input type="radio"/> N2O <input type="radio"/> PFCs and SF6 <input type="radio"/> Solar <input type="radio"/> Tidal <input type="radio"/> Transport <input type="radio"/> Wind <input type="radio"/> Other, please specify	Text field	Select from: <input type="radio"/> CDM (Clean Development Mechanism) <input type="radio"/> JI (Joint Implementation) <input type="radio"/> Gold Standard <input type="radio"/> VCS (Verified Carbon Standard) <input type="radio"/> VER+ (TÜV SÜD standard) <input type="radio"/> CAR (The Climate Action Reserve) <input type="radio"/> CCBS (developed by the Climate, Community and Biodiversity Alliance, CCBA) <input type="radio"/> Plan Vivo <input type="radio"/> Not yet verified <input type="radio"/> Other, please specify	Numerical field	Numerical field	Select from: <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not relevant	Select from: <input type="radio"/> Compliance <input type="radio"/> Voluntary Offsetting <input type="radio"/> Not applicable <input type="radio"/> Other, please specify

[Add Row]

## Internal price on carbon

### (C11.3) Does your organization use an internal price on carbon?

#### Change from 2017

No change (2017 CC2.2c)

#### Response options

Select one of the following options:



- Yes
- No, but we anticipate doing so in the next two years
- No, and we don't anticipate doing so in the next two years

**(C11.3a) Provide details of how your organization uses an internal price on carbon.**

**Question dependencies**

This question only appears if you select "Yes" in response to C11.3.

**Change from 2017**

Modified question (2017 CC2.2d)

**Response options**

Please complete the following table:

Objective for implementing an internal carbon price	GHG Scope	Application	Actual price(s) used (Currency /metric ton)	Variance of price(s) used	Type of internal carbon price	Impact & implication
Select all that apply: <ul style="list-style-type: none"> <li>● Navigate GHG regulations</li> <li>● Stakeholder expectations</li> <li>● Change internal behavior</li> <li>● Drive energy efficiency</li> <li>● Drive low-carbon investment</li> <li>● Stress test investments</li> <li>● Identify and seize low-carbon opportunities</li> <li>● Supplier engagement</li> <li>● Other, please specify</li> </ul>	Select all that apply: <ul style="list-style-type: none"> <li>● Scope 1</li> <li>● Scope 2</li> <li>● Scope 3</li> </ul>	Corporate structure that price is applied to (i.e. business units, corporate divisions, facilities) Text field [maximum 1,000 characters]	Numerical field [enter a number from 0-99,999,999,999 using a maximum of 2 decimal places and no commas]	Text field [maximum 2,400 characters]	Select all that apply: <ul style="list-style-type: none"> <li>● Shadow price</li> <li>● Internal fee</li> <li>● Internal trading</li> <li>● Implicit price</li> <li>● Offsets</li> <li>● Other, please specify</li> </ul>	Text field [maximum 2,400 characters]

## C12 Engagement

### Value chain engagement

#### (C12.1) Do you engage with your value chain on climate-related issues?

##### Change from 2017

Minor change (2017 CC14.4)

##### Response options

Select all that apply from the following options:

- Yes, our suppliers
- Yes, our customers
- Yes, other partners in the value chain
- No, we do not engage

#### (C12.1a) Provide details of your climate-related supplier engagement strategy.

##### Question dependencies

This question only appears if you select "Yes, our suppliers" in response to C12.1.

##### Change from 2017

Modified question (2017 CC14.4b)

##### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table

Type of engagement	Details of engagement	% of suppliers by number	% total procurement spend (direct and indirect)	% Scope 3 emissions as reported in C6.5	Rationale for the coverage of your engagement	Impact of engagement, including measures of success	Comment
Select from: <ul style="list-style-type: none"><li>• Compliance &amp; onboarding</li><li>• Information collection (understanding supplier behavior)</li><li>• Engagement &amp; incentivization (changing supplier behavior)</li><li>• Innovation &amp; collaboration (changing markets)</li><li>• Other, please specify</li></ul>	Select all that apply:  Compliance & onboarding <ul style="list-style-type: none"><li>• Included climate change in supplier selection / management mechanism</li><li>• Code of conduct featuring climate change KPIs</li><li>• Climate change is integrated into supplier evaluation processes</li><li>• Other, please specify</li></ul> Information collection	Percentage field	Percentage field	Percentage field	Text field	Text field	Text field

<p>(understanding supplier behavior)</p> <ul style="list-style-type: none"> <li>Collect climate change and carbon information at least annually from suppliers</li> <li>Other, please specify</li> </ul> <p>Engagement &amp; incentivization (changing supplier behavior)</p> <ul style="list-style-type: none"> <li>Run an engagement campaign to educate suppliers about climate change</li> <li>Climate change performance is featured in supplier awards scheme</li> <li>Offer financial incentives for suppliers who reduce your operational emissions (Scopes 1 &amp; 2)</li> <li>Offer financial incentives for suppliers who reduce your downstream emissions (Scopes 3)</li> <li>Offer financial incentives for suppliers who reduce your upstream emissions (Scopes 3)</li> <li>Other, please specify</li> </ul> <p>Innovation &amp; collaboration (changing markets)</p> <ul style="list-style-type: none"> <li>Run a campaign to encourage innovation to reduce climate impacts on products and services</li> <li>Other, please specify</li> </ul> <p>Other</p> <ul style="list-style-type: none"> <li>Other, please specify</li> </ul>						
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**(C12.1b) Give details of your climate-related engagement strategy with your customers.**

#### Question dependencies

This question only appears if you select "Yes, our customers" in response to C12.1.

**Change from 2017**

Modified question (2017 CC14.4a)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table

Engagement category	Engagement type	Size of engagement	% Scope 3 emissions as reported in C6.5	Please explain the rationale for selecting this group of customers and scope of engagement	Impact of engagement, including measures of success
Select from: <ul style="list-style-type: none"><li>● Education/information sharing</li><li>● Collaboration &amp; innovation</li><li>● Other, please specify</li></ul>	Select from:  Education/ information sharing <ul style="list-style-type: none"><li>● Run an engagement campaign to education customers about your climate change performance and strategy</li><li>● Run an engagement campaign to educate customers about the climate change impacts of (using) your products, goods, and/or services</li><li>● Share information about your products and relevant certification schemes (i.e. Energy STAR)</li></ul> Collaboration & Innovation <ul style="list-style-type: none"><li>● Run a campaign to encourage innovation to reduce climate change impacts</li><li>● Other – please provide information in column 5</li></ul>	Percentage field	Percentage field	Text field	Text field

[Add Row]

### (C12.1c) Give details of your climate-related engagement strategy with other partners in the value chain.

#### Question dependencies

This question only appears if you select “Yes, other partners in the value chain” in response to C12.1.

#### Change from 2017

Modified question (2017 CC14.4a)

### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

### (C12.1d) Why do you not engage with any elements of your value chain on climate-related issues, and what are your plans to do so in the future?

#### Question dependencies

This question only appears if you select “No, we do not engage” in response to C12.1.

#### Change from 2017

No change (2017 CC14.4c)

### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

**Question C12.2 only applies to organizations with activities in the following sectors:**

- Agricultural commodities
- Food, beverage & tobacco
- Paper & forestry

## Public policy engagement

**(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?**

**Change from 2017**

No change (2017 CC2.3)

**Response options**

Select all that apply from the following options:

- Direct engagement with policy makers
- Trade associations
- Funding research organizations
- Other
- No

**(C12.3a) On what issues have you been engaging directly with policy makers?**

**Question dependencies**

This question only appears if you select "Direct engagement with policy makers" in response to C12.3.

**Change from 2017**

No change (2017 CC2.3a)

**Response options**

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table

Focus of legislation	Corporate position	Details of engagement	Proposed legislative solution
Select from: <ul style="list-style-type: none"><li>● Mandatory carbon reporting</li><li>● Cap and trade</li><li>● Carbon tax</li><li>● Energy efficiency</li><li>● Clean energy generation</li><li>● Adaptation resiliency</li><li>● Climate finance</li><li>● Regulation of methane</li><li>● Emissions</li><li>● Other, please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● Support</li><li>● Support with minor exceptions</li><li>● Support with major exceptions</li><li>● Neutral</li><li>● Oppose</li><li>● Undecided</li></ul>	Text field	Text field

[Add Row]

**(C12.3b) Are you on the board of any trade associations or do you provide funding beyond membership?**

**Question dependencies**

This question only appears if you select "Trade associations" in response to C12.3.

**Change from 2017**

No change (2017 CC2.3b)

**Response options**

Select one of the following options:

- Yes
- No

**(C12.3c) Enter the details of those trade associations that are likely to take a position on climate change legislation.**

**Question dependencies**

This question only appears if you select "Yes" in response to C12.3b.

**Change from 2017**

No change (2017 CC2.3c)

**Response options**

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table

Trade association	Is your position on climate change consistent with theirs?	Please explain the trade association's position	How have you influenced, or are you attempting to influence the position?
Text field	Select from: <ul style="list-style-type: none"><li>● Consistent</li><li>● Inconsistent</li><li>● Mixed</li><li>● Unknown</li></ul>	Text field	Text field

[Add Row]

**(C12.3d) Do you publicly disclose a list of all research organizations that you fund?**

**Question dependencies**

This question only appears if you select "Funding research organizations" in response to C12.3.

**Change from 2017**

No change (2017 CC2.3d)

**Response options**

Select one of the following options:

- Yes
- No

**(C12.3e) Provide details of the other engagement activities that you undertake.**

**Question dependencies**

This question only appears if you select "Other" in response to C12.3.

**Change from 2017**

No change (2017 CC2.3e)

**Response options**

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

**(C12.3f) What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?**

**Question dependencies**

This question only appears if you select "Direct engagement with policy makers", "Trade associations", "Funding research organizations" and/or "Other" in response to C12.3.

**Change from 2017**

No change (2017 CC2.3f)

**Response options**

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

**(C12.3g) Why do you not engage with policy makers on climate-related issues?**

**Question dependencies**

This question only appears if you select "No" in response to C12.3.

**Change from 2017**

No change (2017 CC2.3g)

**Response options**

This is an open text question.

Please note that when copying from another document into the disclosure, formatting is not retained.

## Communications

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**(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).**

**Change from 2017**

Modified question (2017 CC4.1)

**Response options**

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table

Publication	Status	Attach the document	Content elements
<p>Select from:</p> <ul style="list-style-type: none"> <li>• In mainstream reports</li> <li>• In mainstream reports in accordance with TCFD recommendations</li> <li>• In mainstream reports, in line with CDSB framework</li> <li>• In mainstream reports, in accordance with TCFD recommendation AND in line with CDSB framework</li> <li>• In other regulatory filings</li> <li>• In voluntary communications</li> <li>• In voluntary sustainability report</li> <li>• No publications with information about our response to climate-related issues and GHG emissions performance</li> <li>• Other, please specify</li> </ul>	<p>Select from:</p> <ul style="list-style-type: none"> <li>• Complete</li> <li>• Underway – previous year attached</li> <li>• Underway – this is our first year</li> </ul>	<p>Attach your document here.</p>	<p>Select all that apply:</p> <ul style="list-style-type: none"> <li>• Governance</li> <li>• Strategy</li> <li>• Risks &amp; Opportunities</li> <li>• Emissions figures</li> <li>• Emission targets</li> <li>• Other metrics</li> <li>• Other, please specify</li> </ul>

[Add Row]

## Connection to other frameworks

### TCFD

C12.4 does not align with a specific area, or recommended disclosure provided by the TCFD. However, it does align with the TCFD's primary aim to have climate-related information disclosed in financial filings.



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## C13 Other land management impacts

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**Module C13 only applies to organizations with activities in the following sectors:**

- Agricultural commodities
- Food, beverage & tobacco
- Paper & forestry

# C14 Signoff

## Signoff

(C14.1) Provide details for the person that has signed off (approved) your CDP climate change response.

### Change from 2017

Minor change (2017 CC15.1)

### Response options

Please complete the following table:

Job title	Corresponding job category
<div>Text field</div>	<div>Select from:<ul style="list-style-type: none"><li>Board chairman</li><li>Board/Executive board</li><li>Director on board</li><li>Chief Executive Officer (CEO)</li><li>Chief Financial Officer (CFO)</li><li>Chief Operating Officer (COO)</li><li>Chief Procurement Officer (CPO)</li><li>Chief Risk Officer (CRO)</li><li>Chief Sustainability Officer (CSO)</li><li>Other C-Suite Officer</li><li>President</li><li>Business unit manager</li><li>Energy manager</li><li>Environmental, health and safety manager</li><li>Environment/Sustainability manager</li><li>Facilities manager</li><li>Process operation manager</li><li>Procurement manager</li><li>Public affairs manager</li><li>Risk manager</li><li>Other, please specify</li></ul></div>

# SC Supply chain module

## Introduction

(SC0.0) If you would like to do so, please provide a separate introduction to this module.

**Change from 2017**

No change (2017 SM0.0)

**Response options**

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

(SC0.1) What is your company's annual revenue for the stated reporting period?

**Change from 2017**

Minor change (2017 SM0.1)

**Response options**

Please complete the following table:

Annual revenue
Numerical field

(SC0.2) Do you have an ISIN for your company that you would be willing to share with CDP?

**Change from 2017**

No change (2017 SM0.2)

**Response options**

Select one of the following options:

- Yes
- No

(SC0.2a) Please use the table below to share your ISIN.

**Question dependencies**

This question only appears if you select "Yes" in response to SC0.2.

**Change from 2017**

No change (2017 SM0.2a)

**Response options**

Please complete the following table:

ISIN country code	ISIN numeric identifier and single check digit
Text field [maximum 2 characters]	Numerical field

Allocating your emissions to your customers

(SC1.1) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

Change from 2017

No change (2017 SM1.1)

Response options

Please note that this table (for SC1.1) is designed so that only the customer that you select in column 1 ("Requesting member") will be able to see the data relevant to them. If you enter an answer without selecting a requesting member, your answer will not be viewable at all.

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Requesting member	Scope of emissions	Emissions in metric tons of CO2e	Uncertainty (± %)	Major sources of emissions	Verified*	Allocation method	Please explain how you have identified the GHG source, including major limitations to this process and assumptions made
[Drop-down menu of requesting members]	Select from: <ul style="list-style-type: none"><li>Scope 1</li><li>Scope 2</li><li>Scope 3</li></ul>	Numerical field	Percentage field	Text field	Select from: <ul style="list-style-type: none"><li>Yes</li><li>No</li></ul>	Select from drop-down options below	Text field

[Add Row]

\*Has the allocation of emissions to your customers been externally verified?

Description of allocation method drop-down options:

- Allocation not necessary due to type of primary data available
- Allocation not necessary as secondary data used
- Allocation based on mass of products purchased
- Allocation based on the volume of products purchased
- Allocation based on the energy content of products purchased
- Allocation based on the chemical content of products purchased
- Allocation based on the number of units purchased
- Allocation based on area

- Allocation based on another physical factor
- Allocation based on the market value of products purchased
- Other, please specify

**(SC1.2) Where published information has been used in completing SC1.1, please provide a reference(s).**

#### Change from 2017

No change (2017 SM1.2)

#### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

**(SC1.3) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?**

#### Change from 2017

No change (2017 SM1.3)

#### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Allocation challenges	Please explain what would help you overcome these challenges
<p>Select from:</p> <ul style="list-style-type: none"> <li>• Diversity of product lines makes accurately accounting for each product/product line cost ineffective</li> <li>• Customer base is too large and diverse to accurately track emissions to the customer level</li> <li>• Managing the different emission factors of diverse and numerous geographies makes calculating total footprint difficult</li> <li>• Doing so would require we disclose business sensitive/proprietary information</li> <li>• We face no challenges</li> <li>• Other, please specify</li> </ul>	<p>Text field</p>

[Add Row]

**(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future?**

#### Change from 2017

No change (2017 SM1.4)

#### Response options

Select one of the following options:

- Yes
- No

**(SC1.4a) Describe how you plan to develop your capabilities.**

#### Question dependencies

This question only appears if you select "Yes" in response to SC1.4.

#### Change from 2017

No change (2017 SM1.4a)

#### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

**(SC1.4b) Explain why you do not plan to develop capabilities to allocate emissions to your customers.**

#### Question dependencies

This question only appears if you select "No" in response to SC1.4.

#### Change from 2017

No change (2017 SM1.4b)

#### Response options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

### Collaborative opportunities

---

**(SC2.1) Please propose any mutually beneficial climate-related projects you could collaborate on with specific CDP supply chain members.**

#### Change from 2017

Modified question (2017 SM2.1)

#### Response options

Please note that this table (for SC2.1) is designed so that only the customer that you select in column 1 ("Requesting member") will be able to see the data relevant to them. If you enter an answer without selecting a requesting member, your answer will not be viewable at all.

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Requesting member	Group type of project	Type of project	Emissions targeted	Estimated timeframe for carbon reductions to be realized	Estimated lifetime CO2e savings	Estimated payback	Details of proposal
Select from: [Drop-down menu of requesting members]	Select from: <ul style="list-style-type: none"> <li>Reduce Logistics Emissions</li> <li>Change to provision of goods and services</li> <li>New product or service</li> <li>Relationship sustainability assessment</li> <li>Other, please specify</li> </ul>	Select from drop-down options below	Select from: <ul style="list-style-type: none"> <li>Actions to reduce customers' operational emissions (customer scope 1 &amp; 2)</li> <li>Actions that would reduce our own operational emissions (our scope 1 &amp; 2)</li> <li>Actions that would reduce our own supply chain emissions (our own scope 3)</li> <li>Actions that would reduce both our own and our customers' emissions</li> <li>Other, please specify</li> </ul>	Select from: <ul style="list-style-type: none"> <li>0-1 year</li> <li>1-3 years</li> <li>3-5 years</li> <li>Other, please specify</li> </ul>	Numerical field	Select from: <ul style="list-style-type: none"> <li>Cost/saving neutral</li> <li>0-1 year</li> <li>1-3 years</li> <li>3-5 years</li> <li>Other, please specify</li> </ul>	Text field

[Add Row]

Type of project drop-down options:

Reduce Logistics Emissions

Select from:

- Consolidated logistics
- Changing transportation mode (switch from aviation to rail)
- Route optimization
- Changed timing of logistics
- Other, please specify

Change to provision of goods and services

Select from:

- Reduced packaging weight
- More online/virtual provision of services
- Other, please specify

New product or service:

Select from:

- New product or service that reduces customers operational emissions

- New product or service that reduces customers products/services operational emissions
- New product or service that has a lower upstream emissions footprint
- Other, please specify

#### Relationship sustainability assessment

##### Select from:

- Assessing products or services life cycle footprint to identify efficiencies
- Sustainability audit of existing relationship
- Aligning goals to feed into customers targets and ambitions
- Other, please specify

#### Change to supplier operations

##### Select from:

- Implementation of energy reduction projects
- Increased levels of purchased renewable energy
- Undertaking life-cycle assessment
- Other, please specify

#### Other

- Other, please specify

### (SC2.2) Have requests or initiatives by CDP supply chain members prompted your organization to undertake organizational-level emissions reduction initiatives?

#### Change from 2017

No change (2017 SM2.2)

#### Response options

Select one of the following options:

- Yes
- No

### (SC2.2a) Specify the requesting member(s) that have driven organizational-level emissions reduction initiatives, and provide information on the initiatives.

#### Question dependencies

This question only appears if you select "Yes" in response to SC2.2.

#### Change from 2017

Modified question (2017 SM2.2a)

#### Response options

Please note that this table (for SC2.2a) is designed so that only the customers that you select in column 1 ("Requesting member") will be able to see the data relevant to them. If you enter an answer without selecting a requesting member, your answer will not be viewable at all.



Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Requesting member	Initiative ID	Group type of project	Type of project	Description of the reduction initiative	Emissions reduction for the reporting year in metric tons of CO2e	Did you identify this opportunity as part of the CDP supply chain Action Exchange?	Would you be happy for CDP to share this work with other supply chain members to highlight this work in their external communication?
Select from: [Drop-down menu of requesting members]	Select from: [Drop-down menu of ID's]	Select from: <ul style="list-style-type: none"><li>● Reduce Logistics Emissions</li><li>● Change to provision of goods and services</li><li>● New product or service</li><li>● Relationship sustainability assessment</li><li>● Other, please specify</li></ul>	Select from drop-down options below	Text field	Numerical field	Select from: <ul style="list-style-type: none"><li>● Yes</li><li>● No</li></ul>	Select from: <ul style="list-style-type: none"><li>● Yes</li><li>● No</li></ul>

[Add Row]

Type of project drop-down options:

Reduce Logistics Emissions

Select from:

- Consolidated logistics
- Changing transportation mode (switch from aviation to rail)
- Route optimization
- Changed timing of logistics
- Other, please specify

Change to provision of goods and services

Select from:

- Reduced packaging weight
- More online/virtual provision of services
- Other, please specify

New product or service

Select from:

- New product or service that reduces customers operational emissions
- New product or service that reduces customers products/services operational emissions
- New product or service that has a lower upstream emissions footprint

- Other, please specify

Relationship sustainability assessment

Select from:

- Assessing products or services life-cycle footprint to identify efficiencies
- Sustainability audit of existing relationship
- Aligning goals to feed into customers targets and ambitions
- Other, please specify

Change to supplier operations

Select from:

- Implementation of energy reduction projects
- Increased levels of purchased renewable energy
- Undertaking life-cycle assessment
- Other, please specify

Other

- Other, please specify

## Action Exchange

---

**(SC3.1) Do you want to enroll in the 2017-2018 CDP Action Exchange initiative?**

**Change from 2017**

No change (2017 SM4.1)

**Response options**

Select one of the following options:

- Yes
- No

**(SC3.1a) Identify which member(s), if any, have motivated you to take part in Action Exchange this year.**

**Question dependencies**

This question only appears if you select "Yes" in response to SC3.1.

**Change from 2017**

No change (2017 SM4.1a)

**Response options**

Select from drop-down list of members.

**(SC3.1b) Select the types of emissions reduction activities that your company would like support in analyzing or implementing in the next reporting year.**

**Question dependencies**

This question only appears if you select "Yes" in response to SC3.1.

**Change from 2017**

No change (2017 SM4.1b)

**Response options**

Select all that apply from the following options:

- Energy efficiency: Building fabric
- Energy efficiency: Building services
- Energy efficiency: Processes
- Fugitive emissions reductions
- Low-carbon energy purchase
- Low-carbon energy installation
- Process emissions reductions
- Transportation: fleet
- Transportation: use
- Product design
- Behavioral change
- Waste recovery
- Green project finance
- Other, please specify

**(SC3.1c) As part of Action Exchange, would you like facility level analysis?**

**Question dependencies**

This question only appears if you select "Yes" in response to SC3.1.

**Change from 2017**

No change (2017 SM4.1c)

**Response options**

Select one of the following options:

- Yes
- No

**(SC3.2) Is your company a participating supplier in CDP's 2017-2018 Action Exchange initiative?**

**Change from 2017**

No change (2017 SM4.2)

**Response options**

Select one of the following options:

- Yes
- No

**(SC3.2a) Describe how your organization actively considered emissions reduction projects as a result of Action Exchange. If you do not have any emissions reduction activities resulting from Action Exchange at any stage of implementation, please explain why not in the second column.**

**Question dependencies**

This question only appears if you select "Yes" in response to SC3.2.

**Change from 2017**

No change (2017 SM4.2a)

**Response options**

Please complete the following table:

Type of project	Details of proposal
Select all that apply: <ul style="list-style-type: none"><li>● Energy efficiency: Building fabric</li><li>● Energy efficiency: Building services</li><li>● Energy efficiency: Processes</li><li>● Fugitive emissions reductions</li><li>● Low-carbon energy purchase</li><li>● Low-carbon energy installation</li><li>● Process emissions reductions</li><li>● Transportation: fleet</li><li>● Transportation: use</li><li>● Product design</li><li>● Behavioral change</li><li>● Waste recovery</li><li>● Green project finance</li><li>● Other, please specify</li></ul>	<div>Text field</div>

Product (goods and services) level data

**(SC4.1) Are you providing product level data for your organization’s goods or services, and, if so, what functionality will you be using?**

**Change from 2017**

No change (2017 SM3.1)

**Response options**

Organizations are able to add data via the disclosure platform or using a combination of an Excel template and the disclosure platform.

Select one of the following options:

- Yes, I will provide data using the disclosure platform
- Yes, I will provide data using the Excel template and the disclosure platform
- No, I am not providing data

**(SC4.1a) Give the overall percentage of total emissions, for all Scopes, that are covered by these products.**

**Question dependencies**

This question only appears if you select “Yes, I will provide data using the disclosure platform” or “Yes, I will provide data using the Excel template and the disclosure platform” in response to SC4.1.

**Change from 2017**

No change (2017 SM3.1a)

**Response options**

Percentage field.

**(SC4.2) Describe the goods/services for which you want to provide data using the following template and attach it to the response.**

**Question dependencies**

This question only appears if you select “Yes, I will provide data using the Excel template and the disclosure platform” in response to SC4.1.

**Change from 2017**

No change (2017 SM3.2)

**Response options**

The template includes questions SC4.2a-c which can be attached in the disclosure platform. Questions SC4.2d-e will be presented via the disclosure platform.

**(SC4.2a) Complete the following table for the goods/services for which you want to provide data.**

**Question dependencies**

This question only appears if you select “Yes, I will provide data using the disclosure platform” in response to SC4.1. The guidance, however, is also relevant if you are responding using the Excel format.

**Change from 2017**

No change (2017 SM3.2a)

**Response options**

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Organizations are able to add data via the disclosure platform or using a combination of an Excel template and the disclosure platform.

Name of good/ service	Description of good/ service	Type of product	SKU (Stock Keeping Unit)	Total emissions in kg CO <sub>2</sub> e per unit	± % change from previous figure supplied	Date of previous figure supplied	Explanation of change
Text field	Text field	Select from: <ul style="list-style-type: none"> <li>Final</li> <li>Intermediate</li> </ul>	Text field	Numerical field	Percentage field	Use the calendar button or enter dates manually in the format DD/MM/YYYY.	Text field

[Add Row]

**(SC4.2b) Complete the following table with data for lifecycle stages of your goods and/or services.**

#### Question dependencies

This question only appears if you select "Yes, I will provide data using the disclosure platform" in response to SC4.1. The guidance, however, is also relevant if you are responding using the Excel format.

#### Change from 2017

No change (2017 SM3.2b)

#### Response options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Name of good/ service	Please select the scope	Please select the lifecycle stage	Emissions at the lifecycle stage in kg CO2e per unit	Is this stage under your ownership or control?	Type of data used	Data quality	If you are verifying/assuring this product emissions data please tell us how
Text field	Select from: <ul style="list-style-type: none"> <li>Scope 1</li> <li>Scope 2</li> <li>Scope 3</li> <li>Scope 1 &amp; 2</li> <li>Scope 1, 2 &amp; 3</li> <li>Other, please specify</li> </ul>	Select from: <ul style="list-style-type: none"> <li>Assembly</li> <li>Consumer use</li> <li>Cradle to gate</li> <li>Cradle to grave</li> <li>Distribution</li> <li>End of life/final disposal</li> <li>Energy/fuel</li> <li>Manufacturing</li> <li>Material acquisition</li> <li>Operation of premises</li> <li>Packaging</li> <li>Pre-processing processing</li> <li>Production</li> <li>Recycling</li> <li>Storage</li> <li>Transportation</li> <li>Waste</li> <li>Other, please specify</li> </ul>	Numerical field	Select from: <ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>	Select from: <ul style="list-style-type: none"> <li>Primary</li> <li>Secondary</li> <li>Primary &amp; secondary</li> </ul>	Text field	Text field

[Add Row]

**(SC4.2c) Please detail emissions reduction initiatives completed or planned for this product.**

### Question dependencies

This question only appears if you select “Yes, I will provide data using the disclosure platform” in response to SC4.1. The guidance, however, is also relevant if you are responding using the Excel format.

### Change from 2017

No change (2017 SM3.2c)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Name of good/service	Initiative ID	Description of initiative	Completed or planned	Emissions reductions in kg CO2e per unit
Text field	Select from:  [Drop-down of ID's]	Text field	Select from: <ul style="list-style-type: none"> <li>Completed</li> <li>Ongoing</li> <li>Planned</li> </ul>	Numerical field

[Add Row]

**(SC4.2d) Have any of the initiatives described in SC4.2c been driven by requesting CDP supply chain members?**

### Change from 2017

No change (2017 SM3.2d)

### Response options

Select one of the following options:

- Yes
- No

### (SC4.2e) Explain which initiatives have been driven by requesting members.

#### Question dependencies

This question only appears if you select “Yes” in response to SC4.2d.

#### Change from 2017

No change (2017 SM3.2e)

### Response options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Please note that this table (for SC4.2e) is designed so that only the customer that you select in column 1 (“Requesting member”) will be able to see the data relevant to them. If you enter an answer without selecting a requesting member, your answer will not be viewable at all.

Requesting member	Name of good/service	Initiative ID
Select from:  [Drop-down menu of requesting members]	Text field	Select from:  [Drop-down of ID's]

[Add Row]

### Important Information

CDP is an independent not-for-profit organization that has been requesting information relating to carbon and climate change on behalf of investors since 2002.

Thousands of organizations from across the world’s major economies measure and disclose their environmental information through CDP. CDP puts this information at the heart of financial and policy decision-making and its goal is to collect and distribute high quality information that motivates investors, corporations and governments to act to prevent dangerous climate change and protect our natural resources.

To find out more about CDP and the previous responses from other organizations, please refer to our website at [www.cdp.net](http://www.cdp.net).

Why is this request from a group of shareholders and lenders to a group of companies rather than from an individual shareholder or lender to an individual company?

- To reduce the reporting burden – one standardized request that requires one corporate response that is then delivered by CDP to multiple investors (note that CDP also works with the Global Reporting Initiative (GRI) to ensure that this request and the GRI indicators are closely aligned and complementary); and
- To standardize responses and data – data is captured and presented back to investors in a common format.

However, companies should not consider their CDP response a means of complying with any regulatory requirement to share financially sensitive non-public information with the market.



Which companies will be asked to respond in 2018?

Companies participating in CDP's programs are selected using economic (market) and environmental criteria. Please refer to our website at [www.cdp.net/samples](http://www.cdp.net/samples) to learn more about the companies targeted by each program and the selection criteria used.

How can a company confirm its participation?

On receipt of the emailed request, please register via the URL provided. If you have not received the request via e-mail please e-mail [respond@cdp.net](mailto:respond@cdp.net) to confirm your participation in CDP 2018. Please note that your response is subject to CDP's Terms for responding companies – investor climate change request which are set out on the following pages.

What is the legal status of CDP?

CDP Worldwide (CDP) is a UK Registered Charity no. 1122330 and a company limited by guarantee registered in England and Wales no. 05013650 with its registered office at Level 3, 71 Queen Victoria Street, London EC4V 4AY. The charity has wholly owned subsidiaries in Germany and China and companies in Australia, Brazil and India over which it exercises control through majority Board representation. In the US, CDP North America, Inc. is an independently incorporated affiliate which has United States IRS 501(c)(3) charitable status.

CDP questionnaire copyright and licensed use

The copyright to CDP's annual questionnaire/s is owned by CDP Worldwide, a registered charity number 1122330 and a company limited by guarantee, registered in England number 05013650. Any use of any part of the questionnaire, including the questions, must be licensed by CDP. Any unauthorized use is prohibited and CDP reserves the right to protect its copyright by all legal means necessary.

## **Terms for responding companies - investor climate change request**

### **1. DEFINITIONS**

Billing Company: means the organization determined in accordance with the table at the end of these terms.

CDP: means CDP Worldwide, a charitable company registered with the Charity Commission of England and Wales (registered charity no. 1122330 and a company number 05013650). References to "we", "our" and "us" in these terms are references to CDP and the Billing Company.

Deadline: means 28 June 2018.

Fee: means the fee set out in the table at the end of these terms, which is exclusive of any applicable taxes.

Information Request: means CDP's 2018 Climate Change Information Request.

Personal Data: means data which relates to an individual who can be identified from the data, such as a person's name and job title.

Responding Company: means the company responding to the Information Request. References to "you" and "your" in these terms are references to the Responding Company.

### **2. PARTIES**

The parties to these terms shall be CDP, the Billing Company (where the Billing Company is not CDP) and the Responding Company.

### 3.THESE TERMS

These are the terms that apply when you respond to our Information Request. If you do not agree to these terms please contact us at [respond@cdp.net](mailto:respond@cdp.net) to discuss them with us.

### 4.RESPONDING TO OUR INFORMATION REQUEST

General. When responding to our Information Request, you will be given a choice as to whether your response can be made public or whether your response is non-public. We strongly encourage you to make your response public.

Deadline for responding. You must submit your response to us using our online response system by the Deadline for your response to be eligible for scoring and inclusion in any reports.

Public responses. If you agree that your response can be made public, we may use and make it available for all purposes that we decide (whether for a fee or otherwise), including, for example, making your responses available on our website, to our investor signatories and other third parties and scoring your response (including publishing your score).

Non-public responses. If your response is non-public, we may use it only as follows:

(a)make it available as soon as it is received by CDP to our investor signatories (as listed on our website) either directly or through Bloomberg terminals, for any use within their organizations but not for publication unless any data from your response has been anonymized or aggregated in such manner that it has the effect of being anonymized;

(b)make it available as soon as it is received by CDP to our group companies and affiliates (for example, CDP North America, Inc), our country partners, research partners, report writers and scoring partners:

(i)to score your response and to publish that score; and

(ii)for any other use within their organizations but not for publication unless any data from your response has been anonymized or aggregated in such manner that it has the effect of being anonymized.

Amending your response. You may amend a response that you have submitted at any time before the Deadline. After the Deadline has passed, your response can only be amended by our staff and we may charge a fee. Please note that any changes that you make to your response after the Deadline may not be reflected in any score or in any report.

Scoring of responses. If you submit your response to us using our online response system by the Deadline your response will be scored. If you submit your response after the Deadline but on or before 30 September 2018 you can choose to request an 'On-Demand' score for a fee. Please email [scorefeedback@cdp.net](mailto:scorefeedback@cdp.net) for more information.

### 5.FEE

Fee. We are a not-for-profit organization and charge certain companies an annual administrative fee to enable us to maintain the disclosure system. Unless you are exempt from paying the Fee, as set out below, if you are listed, incorporated or headquartered in a country that is listed in the next paragraph, you are required to pay the Fee plus any applicable taxes. The Fee is payable once regardless of how many responses (climate change, forests and water) you submit in 2018. Please note that we may charge an additional fee if you want to change your response after you have submitted your response and you are seeking to make the change after the Deadline or if you submit your response after the Deadline and you would like it to be scored.

Countries where the Fee applies . A Responding Company will be required to pay the Fee if it is listed, incorporated or headquartered in any one of the following countries:

Argentina, Australia, Austria, Bahamas, Belgium, Brazil, Canada, Cayman Islands, Channel Islands, Chile, Colombia, Denmark, Finland, France, Germany, Hong Kong, Iceland, India, Indonesia, Ireland, Italy, Japan,

Luxembourg, Malaysia, Mexico, Netherlands, New Zealand, Norway, Peru, Philippines, Portugal, Singapore, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, the UK or the USA.

Exemptions from the Fee. A Responding Company is exempt from paying the Fee if:

(a) it falls within one of CDP's investor samples and it has not submitted a response to CDP in the last three years; or

(b) it is responding only to CDP's supply chain request.

Please note we will decide in our absolute discretion as to whether the Fee is payable or not and we will notify you before you submit your response. A full list of companies in our investor samples is available on our website.

Payment of the Fee. You must pay the Fee by credit or debit card or request an invoice via CDP's online portal, which must be paid within such time as set out in the invoice. Please note that you will not be able to submit your response unless you have paid the Fee, you have requested an invoice or you are exempt from paying the Fee.

## 6. RIGHTS IN THE RESPONSES

Ownership. All intellectual property rights in your response will be owned by you or your licensors.

License. You grant to us, or shall procure for us, a perpetual, irrevocable, non-exclusive, assignable, sub-licensable, royalty-free and global license to use your response and any copyright and data base rights in your response for the uses set out in these terms.

## 7. IMPORTANT REPRESENTATIONS

You confirm that:

(a) the person submitting the response to us is authorized by you to submit the response;

(b) you have obtained all necessary consents and permissions to submit the response to us; and

(c) the response that you submit:

(i) does not infringe the rights of any third party;

(ii) does not include any Personal Data;

(iii) is true to the best of your knowledge, information and belief.

## 8. LIABILITY

We do not exclude or limit in any way our liability to you where it would be unlawful to do so. This includes liability for death or personal injury caused by our negligence or the negligence of our employees, agents or subcontractors; for fraud or fraudulent misrepresentation.

We are not liable for business losses. Subject to these terms, CDP and the Billing Company have no liability to you in any circumstances for any loss of revenue, loss of profit, loss of business, business interruption, loss of business opportunity, loss of goodwill, loss of reputation, loss of, damage to or corruption of data or software or any indirect or consequential loss or damage.

Exclusion of liability. Subject to these terms, CDP and the Billing Company have no liability to you in any circumstances arising from the content or submission of your response to us, our use of your response and/or the use of your response by any third parties.

Limitation of liability . Subject to these terms, CDP and the Billing Company's total liability to you in all circumstances shall be limited to an amount equivalent to the Fee or to £625 if you are not required to pay the Fee.

## 9.GENERAL

We may transfer our rights to someone else We may transfer our rights and obligations under these terms to another organization.

Nobody else has any rights under these terms . These terms are between you and us. No other person shall have any rights to enforce any of its terms.

Entire agreement. These terms constitute the entire agreement between you and us unless you also choose to share your response with supply chain members, in which case you will also be subject to our Terms for responding companies – supply chain request.

Variation. CDP (acting on its own behalf and the Billing Company's behalf, if applicable) reserves the right to change these terms at any time. Such changes shall be effective immediately or such other time as CDP elects. In the event of any materially adverse changes, you may request to withdraw your response within 30 days of us notifying you of the change.

If a court finds part of these terms illegal, the rest will continue in force . Each of the paragraphs of these terms operates separately. If any court or relevant authority decides that any of them are unlawful, the remaining paragraphs will remain in full force and effect.

Governing law and jurisdiction. These terms are governed by English law and you and us both agree to the exclusive jurisdiction of the English courts to resolve any dispute or claim arising out of or in connection with these terms or their subject matter or formation.

Language. If these terms are translated into any language other than English, the English language version will prevail.

## 10.FEE

Location of Responding Company	Fee (exclusive of any applicable taxes)
Brazil	BRL 3,560
India	INR 67,000
Japan	JPY 97,500
UK	GBP 625
Europe (excluding UK)	EUR 925
Rest of the world	USD 975

## 11.BILLING COMPANY

Billing Company	CDP Worldwide	CDP Worldwide (Europe) gGmbH	CDP North America, Inc	Carbon Disclosure Project (Latin America)	Carbon Disclosure Project India	一般社団法人 CDP Worldwide-Japan
Location of Responding Company	Australia	Austria	Canada	Argentina	India	Japan
	Bahamas	Belgium	USA	Brazil		
	Cayman Islands	Denmark		Chile		
	Channel Islands	Finland		Colombia		
	Hong Kong	France		Mexico		
	Indonesia	Germany		Peru		
	Ireland	Iceland				
	Malaysia	Italy				
	New Zealand	Luxembourg				
	Philippines	Netherlands				
	Singapore	Norway				
	South Africa	Portugal				
	South Korea	Spain				
	Taiwan	Sweden				
	Thailand	Switzerland				
	Turkey					
	United Kingdom					

If the Responding Company is located in a territory that is not listed in the table above, the Billing Company shall be CDP Worldwide.

### About CDP

CDP is an international non-profit that drives companies and governments to reduce their greenhouse gas emissions, safeguard water resources and protect forests.

Voted number one climate research provider by investors and working with institutional investors with assets of US\$100 trillion, we leverage investor and buyer power to motivate companies to disclose and manage their environmental impacts.

Over 6,300 companies with some 55% of global market capitalization disclosed environmental data through CDP in 2017. This is in addition to the over 500 cities and 100 states and regions who disclosed, making CDP's platform one of the richest sources of information globally on how companies and governments are driving environmental change. CDP, formerly Carbon Disclosure Project, is a founding member of the We Mean Business Coalition. Please visit [www.cdp.net](http://www.cdp.net) or follow us @CDP to find out more.