

C0. Introduction

C0.1

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

Renewi is a leading waste to product company that gives new life to used materials every day. Recycling is essential to the creation of a circular economy, taking discarded materials and transforming them into secondary materials for the future. This has the primary benefits of firstly preservation of natural resources and secondly a reduction in the carbon requirements for processing alternative virgin materials. We have more than 6,500 people who work on 154 operating sites in 5 countries across Europe and the UK. Our extensive operational network means we are always close to our customers.

For Renewi, waste is a state of mind, and an opportunity. Our many years of knowledge and experience, combined with a broad range of services, allow us to offer sustainable, practical recycling solutions. We use innovation and the latest technology to turn waste into useful materials such as paper, metal, plastic, glass, wood, building materials, compost and energy. In other words, we turn today's waste into tomorrow's raw materials. Renewi was created in 2017, from Shanks Group plc and Van Gansewinkel Groep BV, and is listed on the London Stock Exchange and on Euronext Amsterdam.

We focus on making valuable products from waste, rather than on its disposal through incineration or landfill. We believe our business meets the growing need to deal with waste sustainably.

Our divisions:

1. Commercial:

The Commercial Division is located in the Netherlands and Belgium. It provides a wide range of waste-to-product solutions and represents around 65% of Renewi's revenues.

The commercial waste market covers the collection, sorting, treatment and recycling of waste materials from a range of sources. Recycling accounts for 66% of waste processed and is targeted to increase to 75% over 5 years as part of "Mission 75" which is the Group target to recycle 75% of all materials received. The activities also include the energy recovery or disposal of waste streams that cannot be recycled.

Renewi is the market leader in recycling and production of secondary raw materials in the Benelux. We provide customers with cost-efficient waste-to-product solutions and advise them on how to achieve their own sustainability goals by optimising source separation of waste which can then be converted into high quality raw materials and energy.

Renewi deploys its own sorting and recycling operations for paper, cardboard, wood, plastics, metals and construction and demolition waste, amongst others. Renewi partners extensively with other circular economy enterprises to increase recycling and reuse, and to deliver innovation solutions.

Our unique business model in this market allows us to focus on the value that we can recover from specific waste streams. We then upgrade this waste to new products during its sorting and treatment. We generally collect a large part of the waste ourselves to secure volumes, which we value as sources from which to produce secondary raw materials. We maximise recycling based upon the quality of the waste we collect, and we dispose only of the residues that we are unable to convert into a reusable product or recycle. In this way, we 'waste no more' both environmentally and economically.

2. Mineralz & Water:

Mineralz & Water has been created by merging our Mineralz and ATM businesses, and is focused on the secondary buildings materials market. ATM and Mineralz activities are centered on decontamination, stabilization and re-use of highly contaminated materials, including soils, sludges, waters, bottom and fly ash, and packed chemical wastes. This Division produces certified secondary products such as FORZ and the separated production from ATM, creating sand, gravel and filler for the construction industry.

3. Specialities:

The businesses within this Division are dedicated businesses based around processing plants, focusing on recycling and diverting specific waste streams. The businesses in this Division have little or no collection activity. The operations span France, Portugal and Hungary in addition to the Netherlands, Belgium and the UK. The Renewi Specialities Division consists of three components: UK municipal PPP contracts, Coolrec and Maltha. UK municipal operates waste treatment facilities for UK city and county councils under long term contracts. Coolrec produces quality secondary materials from fridges and other small electrical devices. Maltha produces glass cullet for use in the production of recycled glass.

Nota bene: Renewi plc was formed by the merger of Shanks Group plc and Van Gansewinkel in February 2017. Previously, Shanks had taken part in CDP, whereas Van Gansewinkel had not. For our 2017 CDP submission we provided data for ex-Shanks only. From the 2018 submission merged Renewi data is being provided. This submission provides a restated baseline of FY22 and current results of FY23. This means, that the records prior to FY22 will no longer be comparable.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data and indicate whether you will be providing emissions data for past reporting years.

Reporting year

Start date

April 1 2022

End date

March 31 2023

Indicate if you are providing emissions data for past reporting years

Yes

Select the number of past reporting years you will be providing Scope 1 emissions data for

1 year

Select the number of past reporting years you will be providing Scope 2 emissions data for

1 year

Select the number of past reporting years you will be providing Scope 3 emissions data for

1 year

C0.3

(C0.3) Select the countries/areas in which you operate.

Belgium

France

Netherlands

Portugal

United Kingdom of Great Britain and Northern Ireland

C0.4

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

EUR

C0.5

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.

Operational control

C0.8

(C0.8) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization	Provide your unique identifier
Yes, a Ticker symbol	LON: RWI
Yes, a Ticker symbol	RWI:NA
Yes, an ISIN code	GB00BNR4T868
Yes, a SEDOL code	BNR4T86

C1. Governance

C1.1

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

Yes

C1.1a

(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.

Position of individual or committee	Responsibilities for climate-related issues
Board Chair	Board Chair: Approval of the Group's strategic aims and objectives, including those relating to Sustainability and Climate Change. Also approval of Environment policy.
Director on board	Board NED: Approval of the Group's strategic aims and objectives, including those relating to Sustainability and Climate Change. Also approval of Environment policy.
Director on board	<p>4 x Board NED: Approval of the Group's strategic aims and objectives, including those relating to Sustainability and Climate Change. Also approval of Environment policy.</p> <p>Audit Committee Chair: Audit committee shall:</p> <ol style="list-style-type: none"> 1. review risk management systems including those relating to sustainability and climate risk. 2. debate, review and scrutinise the methodology and approach for reporting in support of strategy set by the Board in relation to sustainability and climate change. 3. Identify, debate and scrutinise the Board's response to environmental and social risks with specific focus on associated climate change risk 4. Provide an advisory role to the Board on the Company's appetite and tolerance with respect to climate risks 5. To monitor, review and refer end of year outcomes to the Board prior to public disclosure including the Group's compliance with the recommendations and requirements of The Task Force on Climate-Related Financial Disclosures (TCFD) and any relevant disclosures mandated under applicable legislation and regulations.

C1.1b

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

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Scope of board-level oversight	Please explain
Scheduled – all meetings	<p>Overseeing major capital expenditures</p> <p>Reviewing and guiding strategy</p> <p>Monitoring progress towards corporate targets</p> <p>Overseeing and guiding public policy engagement</p> <p>Other, please specify (Oversight of the businesses, including methods and applications of giving new life to used products)</p>	<Not Applicable>	<p>Our purpose is to protect the world by giving new life to used materials. Recycling and circular economy facilitation is discussed at every meeting, being the core business of the Group. All targets, including the climate-related ones, are approved by the Board. Renewi's strategic direction is aligned with overall sustainability strategy.</p> <p>The Board considers climate change issues when reviewing and guiding strategy and investment decisions.</p> <p>The Board also has ultimate responsibility for ESG, sustainability and climate-related risks and opportunities. For example, the Board requires each organic investment as well as every M&A or divestment proposal to cover its impact on the company's carbon footprint and recycling rate. It also sets ESG related performance objectives for management. Finally, this also includes approving Renewi's climate-related risks and opportunities included in the risk register and setting climate-related targets. Climate change is discussed at least every six months through updates from the Executive Committee, during which progress against set targets is discussed.</p>
Scheduled – some meetings	<p>Reviewing and guiding annual budgets</p> <p>Overseeing major capital expenditures</p> <p>Overseeing acquisitions, mergers, and divestitures</p> <p>Reviewing innovation/R&D priorities</p> <p>Overseeing and guiding employee incentives</p> <p>Reviewing and guiding strategy</p> <p>Overseeing and guiding the development of a transition plan</p> <p>Monitoring the implementation of a transition plan</p> <p>Overseeing and guiding scenario analysis</p> <p>Overseeing the setting of corporate targets</p> <p>Monitoring progress towards corporate targets</p> <p>Overseeing and guiding public policy engagement</p> <p>Overseeing value chain engagement</p> <p>Reviewing and guiding the risk management process</p>	<Not Applicable>	<p>The Board receives updates from the TCFD Taskforce via the Audit Committee. TCFD disclosures is also reviewed at least annually. Other matters are discussed at meetings at specific points in the year. Oversight is given to all these matters although specific topics are discussed in detail at the Board's committee level and summarised at the Board. The Board and its Committees are provided with information by the management team.</p>
Sporadic - as important matters arise	<p>Overseeing major capital expenditures</p> <p>Overseeing acquisitions, mergers, and divestitures</p> <p>Overseeing and guiding public policy engagement</p>	<Not Applicable>	<p>Matters of importance arising throughout the year will be considered by the Board as and when necessary and these matters are not limited to the items ticked although these provide an indication of matters that may arise.</p>

C1.1d

(C1.1d) Does your organization have at least one board member with competence on climate-related issues?

	Board member(s) have competence on climate-related issues	Criteria used to assess competence of board member(s) on climate-related issues	Primary reason for no board-level competence on climate-related issues	Explain why your organization does not have at least one board member with competence on climate-related issues and any plans to address board-level competence in the future
Row 1	Yes	Past working experience related to renewable energy or decarbonization, either in technical, financial, or advisory capacity	<Not Applicable>	<Not Applicable>

C1.2

(C1.2) Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.

Position or committee

Chief Executive Officer (CEO)

Climate-related responsibilities of this position

Managing annual budgets for climate mitigation activities
 Managing major capital and/or operational expenditures related to low-carbon products or services (including R&D)
 Managing climate-related acquisitions, mergers, and divestitures
 Providing climate-related employee incentives
 Developing a climate transition plan
 Implementing a climate transition plan
 Integrating climate-related issues into the strategy
 Conducting climate-related scenario analysis
 Setting climate-related corporate targets
 Monitoring progress against climate-related corporate targets
 Managing public policy engagement that may impact the climate
 Managing value chain engagement on climate-related issues
 Assessing climate-related risks and opportunities
 Managing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

Reports to the board directly

Frequency of reporting to the board on climate-related issues via this reporting line

More frequently than quarterly

Please explain

Within the Executive Committee, the CEO has responsibility for communicating climate-related issues to the Board. Our purpose is to protect the world by giving new life to used materials. Recycling and circular economy facilitation is discussed at every meeting, being the core business of the Group. All targets, including the climate-related ones, are approved by the Board. Renewi's strategic direction is aligned with overall sustainability strategy. Matters are discussed at meetings as they arise at specific points in the year. Oversight is given to all these matters although specific topics are discussed in detail at the Board's committee level and summarised at the Board. The Board and its Committees are provided with information by the management team.

Position or committee

Other C-Suite Officer, please specify (Strategy and Business Development Director)

Climate-related responsibilities of this position

Managing annual budgets for climate mitigation activities
 Managing major capital and/or operational expenditures related to low-carbon products or services (including R&D)
 Developing a climate transition plan
 Implementing a climate transition plan
 Integrating climate-related issues into the strategy
 Conducting climate-related scenario analysis
 Setting climate-related corporate targets
 Monitoring progress against climate-related corporate targets
 Managing public policy engagement that may impact the climate
 Managing value chain engagement on climate-related issues
 Assessing climate-related risks and opportunities
 Managing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

CEO reporting line

Frequency of reporting to the board on climate-related issues via this reporting line

More frequently than quarterly

Please explain

Group Sustainability team falls under the responsibilities of the Strategy and Business Development Director. As sustainability is the integral part of the Renewi business model, this ensures a close link between the business and sustainability strategy and execution.

Position or committee

Chief Financial Officer (CFO)

Climate-related responsibilities of this position

Managing annual budgets for climate mitigation activities
 Managing major capital and/or operational expenditures related to low-carbon products or services (including R&D)
 Managing climate-related acquisitions, mergers, and divestitures
 Assessing climate-related risks and opportunities
 Managing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

CEO reporting line

Frequency of reporting to the board on climate-related issues via this reporting line

More frequently than quarterly

Please explain

The CFO is responsible for guiding climate risk management.

Position or committee

Other committee, please specify (TCFD Steering Committee)

Climate-related responsibilities of this position

Conducting climate-related scenario analysis
 Monitoring progress against climate-related corporate targets
 Assessing climate-related risks and opportunities
 Managing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

Finance - CFO reporting line

Frequency of reporting to the board on climate-related issues via this reporting line

Annually

Please explain

The TCFD Steering Committee is responsible for our TCFD reporting strategy and to continue embedding climate-related risk management into our existing enterprise risk management framework. The Committee includes experts from all divisions, Strategy, Central Finance, Procurement, Risk and Sustainability. The Committee meets regularly throughout the year.

C1.3

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

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	Our commitment to contribute to the fight against climate change is also reflected in the way we evaluate performance. To motivate senior executives and managers to increase climate-related performance, we have an annual bonus plan and long-term incentive plan (LTIP) in place that includes sustainability metrics such as our recycling rate. Further consideration is under way to assess the appropriate climate-related performance metrics to be included in the LTIP programme.

C1.3a

(C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).

Entitled to incentive

Other, please specify (Senior Leadership Team inc. Exec Directors)

Type of incentive

Non-monetary reward

Incentive(s)

Performance indicator(s)

Progress towards a climate-related target
 Other (please specify) (Recycling rate)

Incentive plan(s) this incentive is linked to

Long-Term Incentive Plan

Further details of incentive(s)

A proportion of the 2023 LTIP grant vests subject to achievement of improvement of the Group's recycling rate.

Explain how this incentive contributes to the implementation of your organization's climate commitments and/or climate transition plan

Improvements in the Group's recycling rates contributes to our commitments towards enabling the circular economy.

C2. Risks and opportunities

C2.1

(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities?

Yes

C2.1a

(C2.1a) How does your organization define short-, medium- and long-term time horizons?

	From (years)	To (years)	Comment
Short-term	0	3	till 2025: Resources planning cycle incl. financial planning
Medium-term	3	8	2025 - 2030: Strategic planning with certain financial assumptions possible
Long-term	8	28	2030-2050: As of last year we are also looking at risk analysis going beyond the next 10 years. The definitions of long-term therefore is up to 30 years

C2.1b

(C2.1b) How does your organization define substantive financial or strategic impact on your business?

Risks are evaluated along three dimensions: time-frame, likelihood, and impact. The time-frame dimension considers the time horizon along which a risk may materialize in the short, medium, or long term. For now, time-frame is separated from likelihood due to the long-term nature of some climate issues, which goes beyond the typical timeframe for enterprise risk management. The likelihood score is based on a qualitative assessment on whether a risk trend is already in occurrence, or whether it is made increasingly likely by the low-carbon transition (for transition risks) or physical climate hazards (for physical risks). Impact is assessed qualitatively, based on relative financial significance to Renewi of a risk materializing. Likelihood has been scored on a scale of 1–5, from highly unlikely to almost certain. Where possible, this assessment has been aligned with our current enterprise risk management framework. It is a future priority item to further integrate our climate-related risks into our existing risk universe, this to make sure the significance of climate related risks relative to other business risks can be assessed.

C2.2

(C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.

Value chain stage(s) covered

Direct operations
Upstream
Downstream

Risk management process

A specific climate-related risk management process

Frequency of assessment

Every two years

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

For climate-related risks, we have worked alongside a leading global sustainability consultancy to identify relevant risks and assess the materiality of these issues. To better understand potential timing and

future materiality of key climate-related risks, we completed in FY22 a qualitative scenario analysis assessment. We have employed globally recognised datasets which provide insight into the possible risk and/or opportunity trends associated with low- and high-carbon futures. We will update our qualitative scenario analyses assessment every two years and take into account latest developed and made publicly available climate models.

We have started working on a financial quantification exercise for two specific climate risks during the year which will determine the priority sites to be looked at that require immediate focus and a mitigation plan will be prepared during FY24.

Risks were assessed on an inherent risk basis to understand the baseline risk Renewi may be exposed to. This means any mitigation efforts already in place have not yet been fully considered, which would result in a current risk profile. As a next step, we will take stock of existing mitigation efforts for key risks and assess whether these efforts are appropriate for the level of risk now and in the future, informed by our scenario analysis exercise. The outcomes of the scenario analysis were reviewed by the TCFD Steering Committee. Findings were presented to the Executive Committee and subsequently the Board to validate the most significant risks and opportunities for our business.

We follow the guidelines set by the Financial Stability Board. As the risks are better quantified this year, we have made them part of the Risk universe diagram of the annual report.

C2.2a

(C2.2a) Which risk types are considered in your organization's climate-related risk assessments?

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	Waste is a highly regulated sector due to potential ecosystem hazards of mishandled residual waste. This requires Renewi to always maintain high safety standards.
Emerging regulation	Relevant, always included	Carbon pricing mechanism may impact client business by increasing tax liability, emissions credit prices, and/or the costs of inputs and administrative expenses. In addition, there is a possibility of increasing non-financial reporting regulation. For example, the existing Carbon Ladder scheme in the Netherlands or mandatory carbon reporting in the UK could evolve as CSRD regulation comes on stage. This would drive a higher requirement for operational and data collection discipline.
Technology	Relevant, always included	The lack of innovation or disruptive technology, or business model deployed by a competitor or new entrant, impacts our ability to compete. This lack of innovation could also stop us from supporting the climate change mitigation effectively.
Legal	Relevant, always included	Failure to comply with rules and regulations, contracts or obligations, can result in disputes or claims. Example: a legal dispute over our site at Moerdijk brought some disruption to our business.
Market	Relevant, always included	Low carbon energy technologies typically require larger amounts of minerals than fossil fuels. Demand for primary minerals will remain high. However, due to the associated environmental impacts of mining, the sector will be under increased scrutiny, giving opportunities to secondary mineral providers such as Renewi to supply technology markets.
Reputation	Relevant, always included	Renewi or the entire sector may incur reputational damages to market, public opinion and authorities. Gaining of environmental permits and overcoming the local community's NIMBY is highly reputation driven. This can lead to loss of business and/or claims. As such, reputation determines Renewi's license to operate.
Acute physical	Relevant, always included	Operational failures at key facilities can lead to business interruptions and other costs. They are exacerbated by climate-change-driven sudden weather events, resulting in fires, flooding or interruption of biological processes
Chronic physical	Relevant, always included	Due to changes in waste composition as the result of warmer and drier weather patterns, and effect of warmer weather on some waste management technologies - wastes may become drier than is currently the case, affecting the sorting and treatment processes and triggering the need to recalibrate our technologies. Or, increases in fire risk at waste sites as a result of hotter summer periods

C2.3

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

Yes

C2.3a

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

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation	Carbon pricing mechanisms
---------------------	---------------------------

Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Increasing pricing of GHG emissions (GHG pricing):

Rising cost of carbon can be a risk to Renewi's own operations, as the expansion of the EU ETS scope will mean Renewi is subject to the scheme. Possibility that if Renewi don't invest in green tech or efficiency upgrades, it could eventually incur high carbon costs. Increasing carbon intense waste treatment processes would increase it's carbon footprint, while the resulting avoided emissions may not be attributed to it under carbon pricing mechanisms.

Time horizon

Short-term

Likelihood

Very likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Unknown

Cost of response to risk

Description of response and explanation of cost calculation

While assessing how to consider and apply carbon prices in our decisions, we are building our carbon emission reduction plan as well as considering advanced technologies for carbon capture (example of the DIMMER project currently being investigated)

Comment

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Upstream

Risk type & Primary climate-related risk driver

Technology	Substitution of existing products and services with lower emissions options
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Primary potential financial impact

Decreased revenues due to reduced production capacity

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Supply chain transparency emissions (Supply chain transparency):

We collect waste that comes from very diverse sources. While we can determine the quality of the outputs on the processed materials, we are currently not able to track the upstream transparency of waste streams that make up for our supplies. This lack of transparency could lead to key stakeholders being disappointed and unsupportive, affecting our ability to sell recycled materials with attractive price margins. This risk occurs due to the increasing expectations from external stakeholders and customers to see, for example, supply chain transparency on the origin and carbon intensity of materials/products.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

We will continue to improve as techniques develop further. The cost of improvement may involve additional capex for the installation of different sensors or IT infrastructure to improve the data management of our supplies.

Comment

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation	Mandates on and regulation of existing products and services
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Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Lack of developing climate policies:

Lack of developing climate policies and slowing climate action could have a negative, effect on our growth, as the success of increasing material recovery technologies is often coming to the level of break-even point, and whether this is lower than the virgin resources alternative. Countries showing a lack of climate action would have a

negative effect on the growth of Renewi. As Renewi is entirely financed by green instruments.

Time horizon

Medium-term

Likelihood

Unlikely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

We support and lobby for progressive climate-related policies of governments in our markets.

Comment

Identifier

Risk 4

Where in the value chain does the risk driver occur?

Upstream

Risk type & Primary climate-related risk driver

Market	Changing customer behavior
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Primary potential financial impact

Decreased revenues due to reduced production capacity

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Changes in waste volume and composition due to reduce and re-use principles (Volume/composition due to reduce/re-use):

Changes in waste volume and composition due to reduce and reuse principles may trigger less materials or less high-value materials in inbound stream, affecting our ability to produce high-quality secondary materials. Revenues impacted to the downside due to reduce and re-use principles. Fewer materials or fewer high-value materials in inbound stream.

Time horizon

Medium-term

Likelihood

About as likely as not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

We encourage re-use and will continue to actively monitor composition of inbound streams for changes in customer behaviours

Comment

Identifier

Risk 5

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical	Heat wave
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Primary potential financial impact

Decreased asset value or asset useful life leading to write-offs, asset impairment or early retirement of existing assets

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Increases in maximum temperatures (Extreme heat):

Main foreseen occurrences:

Increased likelihood of fires at sites due to spontaneous combustion of waste.

Minor foreseen occurrences:

Heat-related illnesses, such as heat stroke Lower efficiency, intermittent operation or failure, of equipment used for sorting and recycling processes. Biological processes could be disrupted or halted

Additional energy to cool equipment, processes, and sites

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

While some of the procedures are already in place, we have yet to ensure all of these mitigation methods are present and practiced on all affected sites: 1. Emergency response and contingency plans to ensure business continuity 2. Procedures for controlling temperatures at some sites 3. Fire detection and extinguishing systems We do not yet know what costs that might incur.

Comment

Identifier

Risk 6

Where in the value chain does the risk driver occur?

Downstream

Risk type & Primary climate-related risk driver

Chronic physical	Water scarcity
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Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Increases in water stress and drought (Water stress and drought):

Lower river levels disrupt barge shipments of products to destination sites.

Reduced water supplies may halt processing.

Water supplies may become more expensive to procure.

Lower river levels during water stressed periods may impact water discharge rates for waste processing sites, resulting in reduced operational capacity.

Investment in additional water storage facilities

Time horizon

Medium-term

Likelihood

About as likely as not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

- Some sites are already used to managing flow of raw materials (woods for example) even when low river levels
- A map of priority sites will be drafted in the coming year to assess where new mitigation plans need to be created

Cost of response to risk

Description of response and explanation of cost calculation

Comment

Identifier

Risk 7

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical	Flood (coastal, fluvial, pluvial, groundwater)
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Primary potential financial impact

Decreased asset value or asset useful life leading to write-offs, asset impairment or early retirement of existing assets

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Extreme rainfall or coastal storm surges (Flooding):
Damages to site equipment and infrastructure
Contamination of water due to mixing with waste materials
Impact water discharge rates
Investment in additional wastewater storage facilities
Coastal flooding could disrupt supply chains

Time horizon

Long-term

Likelihood

About as likely as not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

We must prepare emergency response and contingency plans to ensure business continuity, Flood barriers at some sites located near water courses (eg, Jenkins Lane, UK), Investment in extra water storage capacity at some processing sites, Drainage systems at some sites designed to manage storm water flows, with reference to forward-looking scenarios

Comment

Identifier

Risk 8

Where in the value chain does the risk driver occur?

Upstream

Risk type & Primary climate-related risk driver

Acute physical	Cyclone, hurricane, typhoon
----------------	-----------------------------

Primary potential financial impact

Decreased revenues due to reduced production capacity

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Storms and extreme winds (storms and wind):

Storms and extreme winds may carry debris and result in road blockages disrupting supply chains. Could lead to increased repairs of infrastructure

Time horizon

Medium-term

Likelihood

About as likely as not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

Emergency response and contingency plans are in place to ensure business continuity. Drainage systems at some sites designed to manage storm water flows, with reference to forward-looking scenarios

Comment

C2.4

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

Yes

C2.4a

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

Identifier

Opp1

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Ability to diversify business activities

Primary potential financial impact

Increased revenues through access to new and emerging markets

Company-specific description

Increasing pricing of GHG emissions:

if the Group can monetise the realised carbon avoidance (eg. the difference between the EF of recycled vs virgin materials), its services provide this could provide a growing revenue stream

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

We aim to get broader recognition for the carbon avoidance we generate by recycling as an offset for our customers' emissions among legislators and standard setting bodies.

Comment

Identifier

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Markets

Primary climate-related opportunity driver

Access to new markets

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Development of waste stream recycling activities that support the low carbon transition:
Producing valuable and highly sought-after transition materials from waste benefits the Group by increasing demand for their services and products.

Time horizon

Medium-term

Likelihood

Very likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

We monitor the market for opportunities to recycle additional waste streams and advancements in processing technologies to create the highest possible product quality.

Comment

Identifier

Opp3

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Markets

Primary climate-related opportunity driver

Other, please specify (Increasing cost of materials)

Primary potential financial impact

Other, please specify (Increased revenues due to pricing mechanisms changing)

Company-specific description

Increasing cost of materials:
We expect a higher revenue, due to prices of recycled materials becoming more competitive as cost of raw materials rise

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure**Cost to realize opportunity****Strategy to realize opportunity and explanation of cost calculation**

In order to replace virgin materials as much as possible, we invest in recycling technologies that come as close as possible to the virgin alternative in terms of specification and price.

Comment

Identifier

Opp4

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Ability to diversify business activities

Primary potential financial impact

Increased revenues through access to new and emerging markets

Company-specific description

Circular economy principles:

As the circular economy settles further in the mainstream, for Renewi, being a circular economy specialist with a long experience record allows for the expansion of our offerings to build on eg. advisory services to our current consumers in regard to circular design and recycling opportunities for the future goods.

Time horizon

Short-term

Likelihood

Very likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure**Cost to realize opportunity****Strategy to realize opportunity and explanation of cost calculation**

We aim to maintain a leadership position by continuously investing in advanced recycling technologies and acquiring new technologies and capabilities. This way we will maintain a cutting-edge perspective on what is technologically feasible and what not. This allows us to become an advisor and partner to our customers in applying circular economy

Comment

Identifier

Opp5

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Shift in consumer preferences

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Increasing importance of scope 3 emissions:

For our upstream and downstream consumers generates a potential inflow of new customers who would switch to us in hoping to reduce their own Scope 3. This leads to higher revenue and product/service opportunities.

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure**Cost to realize opportunity****Strategy to realize opportunity and explanation of cost calculation**

Investment in MyRenewi portal will create advanced customer dashboards that provide insight for customers to show recycling outcomes and associated emissions, making sure that this competitive advantage is communicated appropriately.

Comment**Identifier**

Opp6

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver**Primary potential financial impact**

Increased revenues through access to new and emerging markets

Company-specific description

Enhanced climate change regulation & reporting:

Continuing development of climate change regulation could increase competitiveness because the Group is well prepared and lobbying for positive change.

Time horizon

Medium-term

Likelihood

Very likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure**Cost to realize opportunity****Strategy to realize opportunity and explanation of cost calculation**

We aim to be a leader in sustainability, and push what is necessary in order to be recognised as such by the (international) rating agencies.

Comment

C3.1

(C3.1) Does your organization’s strategy include a climate transition plan that aligns with a 1.5°C world?

Row 1

Climate transition plan

Yes, we have a climate transition plan which aligns with a 1.5°C world

Publicly available climate transition plan

No

Mechanism by which feedback is collected from shareholders on your climate transition plan

We do not have a feedback mechanism in place, but we plan to introduce one within the next two years

Description of feedback mechanism

<Not Applicable>

Frequency of feedback collection

<Not Applicable>

Attach any relevant documents which detail your climate transition plan (optional)

Explain why your organization does not have a climate transition plan that aligns with a 1.5°C world and any plans to develop one in the future

<Not Applicable>

Explain why climate-related risks and opportunities have not influenced your strategy

<Not Applicable>

C3.2

(C3.2) Does your organization use climate-related scenario analysis to inform its strategy?

	Use of climate-related scenario analysis to inform strategy	Primary reason why your organization does not use climate-related scenario analysis to inform its strategy	Explain why your organization does not use climate-related scenario analysis to inform its strategy and any plans to use it in the future
Row 1	Yes, qualitative and quantitative	<Not Applicable>	<Not Applicable>

C3.2a

(C3.2a) Provide details of your organization’s use of climate-related scenario analysis.

Climate-related scenario	Scenario analysis coverage	Temperature alignment of scenario	Parameters, assumptions, analytical choices
Physical climate scenarios RCP 4.5	Facility	<Not Applicable>	For the physical assessment, 35 sites were considered, with a 2030 and 2050 time horizon. Investigated parameters: extreme heat (Maximum seasonal temperature), extreme cold (minimum seasonal temperature), watercourse flooding (maximum precipitation over 5 days), coastal flooding (mean sea level rise - cm above 2000 level), rainfall flooding (maximum precipitation over 1 day), storms&winds (storm intensity), wildfires (springtime average precipitation), landslides (maximum precipitation over 5 days), water stress and drought(water stress - change in water stress category).
Physical climate scenarios RCP 8.5	Facility	<Not Applicable>	For the physical assessment, 35 sites were considered, with a 2030 and 2050 time horizon. Investigated parameters: extreme heat (Maximum seasonal temperature), extreme cold (minimum seasonal temperature), watercourse flooding (maximum precipitation over 5 days), coastal flooding (mean sea level rise - cm above 2000 level), rainfall flooding (maximum precipitation over 1 day), storms&winds (storm intensity), wildfires (springtime average precipitation), landslides (maximum precipitation over 5 days), water stress and drought(water stress - change in water stress category).
Transition scenarios IEA STEPS (previously IEA NPS)	Company-wide	<Not Applicable>	The following time horizon considered: 2025, 2030, 2040, 2050. R&O investigated and Indicators used: circular economy principles (plastic recycling rates -% of recycling), development of waste stream recycling activities that support low carbon transition (minerals demand in low-carbon technologies), enhanced climate change regulation and reporting relating to operations, products and services (waste CO2e emissions UK), Increased pricing of GHG emissions (carbon price EU), Increasing importance of Scope 3 emissions (CO2 intensity of GDP global), increasing cost of materials (minerals demand in low carbon technologies), Lack of investment in R&D of new technologies (plastic recycling rates), supply chain data transparency (CO2 intensity GDP global), changes in volume of waste and its composition due to reduce and reuse principles (CO2 emissions per capita)
Transition scenarios IEA NZE 2050	Company-wide	<Not Applicable>	The following time horizon considered: 2025, 2030, 2040, 2050. R&O investigated and Indicators used: circular economy principles (plastic recycling rates -% of recycling), development of waste stream recycling activities that support low carbon transition (minerals demand in low-carbon technologies), enhanced climate change regulation and reporting relating to operations, products and services (waste CO2e emissions UK), Increased pricing of GHG emissions (carbon price EU), Increasing importance of Scope 3 emissions (CO2 intensity of GDP global), increasing cost of materials (minerals demand in low carbon technologies), Lack of investment in R&D of new technologies (plastic recycling rates), supply chain data transparency (CO2 intensity GDP global), changes in volume of waste and its composition due to reduce and reuse principles (CO2 emissions per capita)

C3.2b

(C3.2b) Provide details of the focal questions your organization seeks to address by using climate-related scenario analysis, and summarize the results with respect to these questions.

Row 1

Focal questions

1. Understand, at a high level, where material exposures to climate-related risk (and opportunity) may exist, and to understand the drivers and timing of related issues;
2. Prioritise management of the current and future business from a climate-related risk perspective;
3. Inform the next stage of the assessment, i.e., TCFD Disclosure and Roadmap;
4. Form part of Renewi’s engagement and disclosure with investors and other stakeholders;
5. Support the response to emerging regulatory and/or supervisory expectations.
6. Start the quantification of financial impacts of the risks and costs to realize opportunities.

Results of the climate-related scenario analysis with respect to the focal questions

Summary of Results–Physical

Renewi has observed a range of physical climate risks that have impacted operations at sites, such as flooding at Wandre, water stress and drought at Roeselare, and storms at sites across the UK. Under future climate scenarios, key risks that could impact all sites have been identified as extreme heat, resulting in increased risk of fires and affecting working conditions, and storms & wind. Other risks– from water stress and drought and flooding (including water course, rainfall, and coastal flooding)– could affect many sites and divisions, depending on location. Assets without door operations– e.g., sorting, compost, and water treatment facilities may be at particular risk, but these impacts may vary by division.

Summary of Results–Transition

Renewi has identified climate-related transition risks and opportunities that could impact operations, such as increasing scope of carbon prices and more stringent climate-related regulation (e.g., CSRD). Under future climate scenarios, the headline risk that could impact Renewi is carbon prices. For Renewi, however, more significant opportunities have been identified. The headline opportunities are carbon prices and the development of recycling activities of metals /minerals for the low carbon energy transition. Therefore, carbon prices pose both a risk and opportunity due to Renewi’s potential exposure to the EU or UK ETS and increasing demand for Renewi’s products as its customers look to limit their environmental impact.

We have done a first pilot for two risk and opportunities, and are planning to expand this towards the full set of risks and opportunities over the coming years.

C3.3

(C3.3) Describe where and how climate-related risks and opportunities have influenced your strategy.

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	Increased the importance of finding ways to accelerate circular economy; provided a strong business case for more concerted efforts in this domain. At its core, Renewi is focused on creating products from waste by recycling to help avoid unnecessary raw material manufacture and associated resource depletion where possible, reducing millions of tonnes GHG emissions in value chains every year through the reuse of materials. This trend reflects the growing demand for recycled products and the rising importance of scope 3 emissions, which increases demand for our services from companies looking to reduce supply chain emissions. Our role in the circular economy allows us to avoid more GHG emissions than we generate in our scope 1 & 2, as well as preserving scarce natural resources by recirculating materials.
Supply chain and/or value chain	Evaluation in progress	Currently no climate nor ESG criteria applied, ongoing work to define a robust set of ESG criteria for procurement
Investment in R&D	Yes	We are investing in the commercialisation of innovative recycling techniques to reduce waste and increase the quantity and quality of secondary materials produced. We are investigating how these innovations can improve our recycling rate while replacing as much emissions from new materials as physically and commercially possible. We also partner with external entities up and down the value chain to deliver carbon reductions to our clients.
Operations	Yes	We are investing in decarbonising our operations, to help us better align with the global effort to limit global warming to 1.5°C. We are electrifying our fleet, greening office buildings, seeking fuel efficiencies etc. As operations are the main driver of our carbon footprint, the emissions reductions in operations are critical to us meeting the SBTi ambitions. In anticipation of further temperature increases, we invest in the avoiding and mitigation of fires - as one of the greatest operational risks in the waste industry. These investments are in processes and systems of fire prevention, detection, and suppression. Smart technology such as cameras supported by artificial intelligence plays an important role and is being deployed on sites.

C3.4

(C3.4) Describe where and how climate-related risks and opportunities have influenced your financial planning.

	Financial planning elements that have been influenced	Description of influence
Row 1	Capital expenditures Capital allocation Acquisitions and divestments Access to capital	The thorough evaluation of climate-related risks and opportunities has clearly indicated what areas of Renewi would be most impacted. We are in the process of financially quantifying the impact of these risks and opportunities and have already done so for the two of them, and gradually expanding this evaluation to all climate-related R&O’s. Yet the early identification of the priority areas is already actively shaping our agenda of acquisitions and portfolio management, as well as capital allocation and capital investments.

C3.5

(C3.5) In your organization's financial accounting, do you identify spending/revenue that is aligned with your organization's climate transition?

	Identification of spending/revenue that is aligned with your organization's climate transition	Indicate the level at which you identify the alignment of your spending/revenue with a sustainable finance taxonomy
Row 1	No, but we plan to in the next two years	<Not Applicable>

C4. Targets and performance

C4.1

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

Absolute target

C4.1a

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

Target reference number

Abs 1

Is this a science-based target?

Yes, we consider this a science-based target, and we have committed to seek validation of this target by the Science Based Targets initiative in the next two years

Target ambition

1.5°C aligned

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

<Not Applicable>

Base year

2022

Base year Scope 1 emissions covered by target (metric tons CO2e)

597439.494

Base year Scope 2 emissions covered by target (metric tons CO2e)

51059.92

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target (metric tons CO2e)

<Not Applicable>

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

648499.414

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

<Not Applicable>

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

Target year

2030

Targeted reduction from base year (%)

50

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

324249.707

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

528555.437

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

45087.9

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

573643.337

Does this target cover any land-related emissions?

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

% of target achieved relative to base year [auto-calculated]

23.0859351246846

Target status in reporting year

New

Please explain target coverage and identify any exclusions

Plan for achieving target, and progress made to the end of the reporting year

List the emissions reduction initiatives which contributed most to achieving this target

<Not Applicable>

Target reference number

Abs 2

Is this a science-based target?

Yes, we consider this a science-based target, and we have committed to seek validation of this target by the Science Based Targets initiative in the next two years

Target ambition

1.5°C aligned

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

<Not Applicable>

Base year

2022

Base year Scope 1 emissions covered by target (metric tons CO2e)

597439.494

Base year Scope 2 emissions covered by target (metric tons CO2e)

51059.92

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target (metric tons CO2e)

<Not Applicable>

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

648499.414

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1:

Purchased goods and services (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

<Not Applicable>

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

Target year

2025

Targeted reduction from base year (%)

15

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

551224.5019

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

528555.437

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

45087.9

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

573643.337

Does this target cover any land-related emissions?

Please select

% of target achieved relative to base year [auto-calculated]

76.953117082282

Target status in reporting year

New

Please explain target coverage and identify any exclusions

Plan for achieving target, and progress made to the end of the reporting year

List the emissions reduction initiatives which contributed most to achieving this target

<Not Applicable>

Target reference number

Abs 3

Is this a science-based target?

Yes, we consider this a science-based target, and we have committed to seek validation of this target by the Science Based Targets initiative in the next two years

Target ambition

1.5°C aligned

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 3

Scope 2 accounting method

<Not Applicable>

Scope 3 category(ies)

Category 1: Purchased goods and services

Category 2: Capital goods

Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

Category 5: Waste generated in operations

Category 6: Business travel

Category 7: Employee commuting

Category 15: Investments

Base year

2022

Base year Scope 1 emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 2 emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

962340

Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

46334

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

183748

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

926

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

11647

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

17142

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target (metric tons CO2e)

1222136

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

1222136

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

<Not Applicable>

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

<Not Applicable>

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

100

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

100

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

100

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

100

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

100

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

100

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

100

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

100

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

Target year

2030

Targeted reduction from base year (%)

25

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

916602

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)
1052773

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)
42897

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)
186476

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)
1764

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)
11801

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)
53258

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)
<Not Applicable>

Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)
1348969

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)
1348969

Does this target cover any land-related emissions?
No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

% of target achieved relative to base year [auto-calculated]
-41.5119102947626

Target status in reporting year
New

Please explain target coverage and identify any exclusions
We are reporting the category 1 and 2 jointly under category 1. and category 4+9 jointly under category 4.

Plan for achieving target, and progress made to the end of the reporting year

List the emissions reduction initiatives which contributed most to achieving this target
<Not Applicable>

C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year?

Target(s) to increase low-carbon energy consumption or production
Other climate-related target(s)

C4.2a

(C4.2a) Provide details of your target(s) to increase low-carbon energy consumption or production.

Target reference number
Low 1

Year target was set

2020

Target coverage

Business activity

Target type: energy carrier

Electricity

Target type: activity

Consumption

Target type: energy source

Renewable energy source(s) only

Base year

2020

Consumption or production of selected energy carrier in base year (MWh)

196219

% share of low-carbon or renewable energy in base year

15.9

Target year

2025

% share of low-carbon or renewable energy in target year

50

% share of low-carbon or renewable energy in reporting year

36.5

% of target achieved relative to base year [auto-calculated]

60.4105571847507

Target status in reporting year

Revised

Is this target part of an emissions target?

Yes - it is contributing to the overall emissions intensity of our sites.

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

The share of renewable energy used on site (percentage of renewable electricity out of total electricity use) was 36.5% in FY23, versus 32.6% in FY22. We had already achieved our FY25 target of 25% at the end of FY22. In order to be aligned with our ambition to reduce by 50% our carbon emissions on scope 1&2 by 2030 (FY31), we have updated this target and are now aiming for 100% of renewable electricity by 2030.

Plan for achieving target, and progress made to the end of the reporting year

Progress towards our FY31 target of 100% will become noticeable in the coming financial year, as more Divisions start purchasing green certificates, the Ghent wind turbine will be in full operation, delivering renewable electricity to the Ghent site, and the usage of solar PV installations, will increase. For example, in June 2022 we completed the construction of a new 380kWp (kilowatt peak) solar photovoltaic installation at our glass recycling plant in Figueira de Foz, Portugal.

List the actions which contributed most to achieving this target

<Not Applicable>

Target reference number

Low 2

Year target was set

2022

Target coverage

Business activity

Target type: energy carrier

Electricity

Target type: activity

Consumption

Target type: energy source

Renewable energy source(s) only

Base year

2022

Consumption or production of selected energy carrier in base year (MWh)

208807.149

% share of low-carbon or renewable energy in base year

32.6

Target year

2030

% share of low-carbon or renewable energy in target year

100

% share of low-carbon or renewable energy in reporting year

36.5

% of target achieved relative to base year [auto-calculated]

5.78635014836795

Target status in reporting year

New

Is this target part of an emissions target?

Yes - it is contributing to the overall emissions intensity of our sites.

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

The share of renewable energy used on site (percentage of renewable electricity out of total electricity use) was 36.5% in FY23, versus 32.6% in FY22. We had already achieved our FY25 target of 25% at the end of FY22. In order to be aligned with our ambition to reduce by 50% our carbon emissions on scope 1&2 by 2030 (FY31), we have updated this target and are now aiming for 100% of renewable electricity by 2030.

Plan for achieving target, and progress made to the end of the reporting year

Progress towards our FY31 target of 100% will become noticeable in the coming financial year, as more Divisions start purchasing green certificates, the Ghent wind turbine will be in full operation, delivering renewable electricity to the Ghent site, and the usage of solar PV installations will increase. For example, in June 2022 we completed the construction of a new 380kWp (kilowatt peak) solar photovoltaic installation at our glass recycling plant in Figueira de Foz, Portugal.

List the actions which contributed most to achieving this target

<Not Applicable>

C4.2b**(C4.2b) Provide details of any other climate-related targets, including methane reduction targets.****Target reference number**

Oth 1

Year target was set

2021

Target coverage

Business activity

Target type: absolute or intensity

Intensity

Target type: category & Metric (target numerator if reporting an intensity target)

Low-carbon vehicles	Percentage of low-carbon vehicles in company fleet
---------------------	----------------------------------------------------

Target denominator (intensity targets only)

Other, please specify (% of Total size of truck fleet)

Base year

2020

Figure or percentage in base year

60.9

Target year

2025

Figure or percentage in target year

100

Figure or percentage in reporting year

76

% of target achieved relative to base year [auto-calculated]

38.618925831202

Target status in reporting year

Underway

Is this target part of an emissions target?

Yes, this is impacting the carbon intensity of collection target

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

This target refers to trucks only. We calculate this as a share of electric, hybrid or Euro 6 trucks in our total number of trucks.

Plan for achieving target, and progress made to the end of the reporting year**List the actions which contributed most to achieving this target**

<Not Applicable>

Target reference number

Oth 3

Year target was set

2021

Target coverage

Business activity

Target type: absolute or intensity

Intensity

Target type: category & Metric (target numerator if reporting an intensity target)

Low-carbon vehicles	Percentage of low-carbon vehicles in company fleet
---------------------	----------------------------------------------------

Target denominator (intensity targets only)

Other, please specify (% of Total size of passenger car fleet)

Base year

2020

Figure or percentage in base year

12.5

Target year

2025

Figure or percentage in target year

40

Figure or percentage in reporting year

38

% of target achieved relative to base year [auto-calculated]

92.7272727272727

Target status in reporting year

Underway

Is this target part of an emissions target?

It will contribute to part of our Scope 3 targets.

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

This target refers to company cars for personnel only. We calculate this as a % of full electric or hybrid cars in the total number of lease cars our personnel drives.

Plan for achieving target, and progress made to the end of the reporting year

List the actions which contributed most to achieving this target

<Not Applicable>

Target reference number

Oth 4

Year target was set

2020

Target coverage

Business activity

Target type: absolute or intensity

Intensity

Target type: category & Metric (target numerator if reporting an intensity target)

Low-carbon vehicles	Percentage of low-carbon vehicles in company fleet
---------------------	----------------------------------------------------

Target denominator (intensity targets only)

Other, please specify (% of Total size of passenger car fleet)

Base year

2020

Figure or percentage in base year

12.5

Target year

2030

Figure or percentage in target year

50

Figure or percentage in reporting year

38

% of target achieved relative to base year [auto-calculated]

68

Target status in reporting year

New

Is this target part of an emissions target?

It will contribute to part of our Scope 3 targets.

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

This target refers to company cars for personnel only. We calculate this as a % of full electric or hybrid cars in the total number of lease cars our personnel drives.

Plan for achieving target, and progress made to the end of the reporting year**List the actions which contributed most to achieving this target**

<Not Applicable>

Target reference number

Oth 5

Year target was set

2020

Target coverage

Company-wide

Target type: absolute or intensity

Intensity

Target type: category & Metric (target numerator if reporting an intensity target)

Waste management	metric tons of waste recycled
------------------	-------------------------------

Target denominator (intensity targets only)

Other, please specify (% total waste handled)

Base year

2020

Figure or percentage in base year

65

Target year**Figure or percentage in target year**

75

Figure or percentage in reporting year

63.6

% of target achieved relative to base year [auto-calculated]

-14

Target status in reporting year

Revised

Is this target part of an emissions target?

No

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

We believe robust data and reporting methodologies are critical and we are committed to full compliance to all international standards on sustainability reporting. A cross-functional internal team has completed a comprehensive review of our methodologies and reporting framework, supported by external experts. This has resulted in the restatement of our FY22 recycling rate, carbon avoidance and carbon footprint baselines. We track the volume of innovative secondary materials we create, and in FY23 we have made significant strategic progress, strengthening our leading role in recycling and raw material production. After a comprehensive review of our methodologies and recycling rate reporting framework, our industry-leading recycling rate for FY22 was restated to 61.8%. In FY23, our recycling rate has increased to 63.6%. Increased scrutiny means we can offer much greater clarity around the waste volumes we recycle. Firstly, because such a significant part of our business is decontaminating wastewater, we now report water treatment activities in our recycling rate (see page 23). Secondly, we've harmonised our reporting methodologies across Renewi's three divisions – Commercial Waste, Mineralz & Water and Specialities. We've also aligned our recycling labelling for solid waste with international standards, whether these are EU or country-specific benchmarks. We are further developing our Mission75 programme, which aims to raise our recycling rate to 75%.

Plan for achieving target, and progress made to the end of the reporting year**List the actions which contributed most to achieving this target**

<Not Applicable>

Target reference number

Oth 6

Year target was set

2020

Target coverage

Company-wide

Target type: absolute or intensity

Intensity

Target type: category & Metric (target numerator if reporting an intensity target)

Resource consumption or efficiency	Other, please specify (kgCO2 avoided per metric tonne of waste handled)
------------------------------------	-------------------------------------------------------------------------

Target denominator (intensity targets only)

Other, please specify (kgCO2)

Base year

2020

Figure or percentage in base year

257

Target year

2025

Figure or percentage in target year

275

Figure or percentage in reporting year

% of target achieved relative to base year [auto-calculated]

<Calculated field>

Target status in reporting year

Retired

Is this target part of an emissions target?

No

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

Along with the restatement of our Recycling Rate (above - which serves as a basis for this goal's calculation) and the publication of guidance on reporting avoided emissions by WBCSD, our previous Carbon Avoidance target has been retired, and we prepare for a revision.

Plan for achieving target, and progress made to the end of the reporting year

<Not Applicable>

List the actions which contributed most to achieving this target

<Not Applicable>

Target reference number

Oth 2

Year target was set

2020

Target coverage

Business activity

Target type: absolute or intensity

Absolute

Target type: category & Metric (target numerator if reporting an intensity target)

Low-carbon vehicles	Percentage of battery electric vehicles in company fleet
---------------------	----------------------------------------------------------

Target denominator (intensity targets only)

<Not Applicable>

Base year

2020

Figure or percentage in base year

2

Target year

2030

Figure or percentage in target year

65

Figure or percentage in reporting year

4

% of target achieved relative to base year [auto-calculated]

3.17460317460317

Target status in reporting year

Underway

Is this target part of an emissions target?

Yes - it will contribute to our fleet intensity cascading the impact to scope 1 and 2.

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

This target refers to the truck fleet only. We currently operate truck fleet in the Netherlands, Belgium and the UK (Commercial Waste Netherlands, Belgium, and Specialities: Municipal).

Plan for achieving target, and progress made to the end of the reporting year

List the actions which contributed most to achieving this target

<Not Applicable>

C4.3

(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.

Yes

C4.3a

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

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	3	330700
To be implemented*	1	2740
Implementation commenced*	4	13905
Implemented*		
Not to be implemented		

C4.3b

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

Initiative category & Initiative type

Low-carbon energy consumption	Low-carbon electricity mix
-------------------------------	----------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

4795

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Please select

Estimated lifetime of the initiative

Please select

Comment

2 of the above specified initiatives "implementation commenced" fall under this category:

- 1) We achieve increasing share of renewable energy mix through short-term solutions (green certificates procurement) - currently in CW NL and Coolrec,
- 2) We are procuring energy from renewable installations directly, both those owned by Renewi and those owned by 3rd party but in collaboration with Renewi.

Initiative category & Initiative type

Low-carbon energy consumption	Other, please specify (Electrification of vehicle fleet)
-------------------------------	----------------------------------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

9590

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Scope 2 (market-based)
Scope 3 category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Please select

Estimated lifetime of the initiative

Please select

Comment

2 of the above mentioned initiatives are included here - 1 to be implemented, 1 with implementation commenced.

- 1) We have already begun purchasing more EVs for our truck fleet, the remaining trucks are gradually equipped with Euro 6 norm-compliant engines and we investigate how this fleet transition could be scaled up.
- 2) Additionally, we are exploring opportunities to replace mineral-based fuels with more biogenic content.

Initiative category & Initiative type

Non-energy industrial process emissions reductions	Carbon capture and storage/utilization (CCS/U)
----------------------------------------------------	------------------------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

31510

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Please select

Estimated lifetime of the initiative

Please select

Comment

2 "Under investigation" initiatives are represented here:

- 1) Carbon capture and storage possibilities being evaluated in cooperation with Moerdijk partners to address the emissions from our hazardous waste processing plant
- 2) We are also investigating carbon capture from composting/digestion.

Initiative category & Initiative type

Other, please specify	Other, please specify (Fuel efficiency on sites)
-----------------------	--------------------------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

5480

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Please select

Estimated lifetime of the initiative

Please select

Comment

2 initiatives are described here, 1- under investigation and 1- implementation commenced.

- 1) We have already begun electrifying small vehicles on the sites, to minimize our reliance on fuel.
- 2) additionally, we investigate alternative power sources for the usage of natural gas.

C4.3c

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

Method	Comment
Financial optimization calculations	In line with our business objective, much of the innovation comes from the joint case of enabling carbon avoidance and maximizing the value of materials that we are processing. In parallel, we have an ongoing financial planning process for the next 5 years strategy where we are starting to track the carbon impact of individual projects.
Dedicated budget for low-carbon product R&D	Renewi has a network of Innovation Managers across all its divisions. As per our Mission 75 (see our corporate website: this term refers to our ambitious plan to increase Renewi's recycling rate from 65% to 75%), the network of Innovation Managers investigates the synergies between Renewi and external partners that are worth pursuing to further the circular economy adoption, and to test new technologies.

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products?

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products.

Level of aggregation

Group of products or services

Taxonomy used to classify product(s) or service(s) as low-carbon

Other, please specify (low-carbon products or that enable a third party to avoid GHG emissions)

Type of product(s) or service(s)

Other	Other, please specify (Recyclates, recovered materials and green electricity)
-------	-------------------------------------------------------------------------------

Description of product(s) or service(s)

1. Separated wastes (card, paper, metals, glass, plastic etc) provided to manufacturers which displace raw virgin materials - carbon avoidance benefit.
2. Waste derived fuels which displace fossil fuels - carbon avoidance benefit.
3. Green electricity production, such as from anaerobic digestion of wastes - carbon avoidance benefit.

Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Yes

Methodology used to calculate avoided emissions

Other, please specify (Carbon avoidance factors)

Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Not applicable

Functional unit used

per tonne of waste handled

Reference product/service or baseline scenario used

Please see on our website:

1. Sustainability Review 2023 for overview - <https://www.renewi.com/en/investors/investor-relations>
2. Source of carbon avoidance factors used (TNO - CO2 kentallen van afvalstromen (2019))

Life cycle stage(s) covered for the reference product/service or baseline scenario

Not applicable

Estimated avoided emissions (metric tons CO2e per functional unit) compared to reference product/service or baseline scenario

Explain your calculation of avoided emissions, including any assumptions

Carbon avoidance = the potential avoidance of CO2 (and CO2 equivalent) emissions in the downstream supply chain as an effect of:

1. Using waste as a secondary raw material instead of using primary raw materials
2. Generating energy from waste - At Renewi this means direct landfill gas power generation and anaerobic digestion power generation
3. Using waste derived fuels in energy production instead of fossil fuels - At Renewi these are SRF/RDF, Icopower pellets, woodchips or other biomass
4. Using waste derived fuels on-site as a fuel for processes, instead of external fossil fuels

calculation of the 4 categories mentioned in definition:

- 1) tonnes of total amount of waste handled per waste stream multiplied by respective carbon avoidance factor
- 2) MWh landfill gas/AD power generation multiplied by respective carbon avoidance factor
- 3) and 4) tonnes of waste derived fuel multiplied by respective carbon avoidance factor

And to generate our Kpi "potential avoided emissions per tonne of waste handled": the above carbon avoidance numbers summed is divided by total amount of waste handled at Renewi.

the total amount of waste handled at Renewi is: waste and secondary raw material that is sent from Renewi sites to third parties (so no internal Renewi customers e.g. other Renewi sites/divisions/companies) AND Waste that is landfilled on our own Renewi landfill sites

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

25

C5. Emissions methodology

C5.1

(C5.1) Is this your first year of reporting emissions data to CDP?

No

C5.1a

(C5.1a) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?

Row 1

Has there been a structural change?

- Yes, an acquisition
- Yes, a divestment

Name of organization(s) acquired, divested from, or merged with

Divested: Site Seraing from Renewi Chemical Services NV; Sites Leeuwarden, Veendam, Groningen, from Mineralz B.V., German office and the Hungarian site. These changes have been incorporated into our revisited baseline for FY22 already.
 Acquired: Paro -> renamed to Renewi Westpoort. -> This is one change between the baseline FY22 and reporting year FY23.

Details of structural change(s), including completion dates

Paro has been acquired in Q2 FY23 (Summer 2022). It comes with 2 sites, Arnhem office and a production site in Amsterdam Westpoort. It does not constitute over 5% of emissions of Renewi therefore a revisit of the baseline was not required.

C5.1b

(C5.1b) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

	Change(s) in methodology, boundary, and/or reporting year definition?	Details of methodology, boundary, and/or reporting year definition change(s)
Row 1	Yes, a change in methodology Yes, a change in boundary	Overhaul of all our to-date carbon reporting structure, revised with an assistance of a 3rd party consultant and audited to limited assurance prior to publication. Boundary changed from a mix of operational and financial control that our financial reporting follows, to only and consistently applying operational control rule for the GHG reporting. This was a 6month effort, 100% redon from the ground up. ~20 people involved in the core team. We went from a 4- to 22- page reporting manual, developing the transparency to site-level granularity, understanding our biogenic emissions, moving to the calculation of scope 2 in location-based and market-based methods. Result: robust reporting framework that is externally validated and ready for assurance.

C5.1c

(C5.1c) Have your organization's base year emissions and past years' emissions been recalculated as a result of any changes or errors reported in C5.1a and/or C5.1b?

	Base year recalculation	Scope(s) recalculated	Base year emissions recalculation policy, including significance threshold	Past years' recalculation
Row 1	Yes	Scope 1 Scope 2, location-based Scope 2, market-based	For the base year (FY22): o We are excluding sites that are being sold / have been sold o We are including sites that are being closed down (but still within Renewi's operational control) Going forward (FY23 and beyond) Renewi will follow the following approach: o If Renewi sells sites/operations/divisions that result in a >5% impact on Group level Scope 1 & 2 footprint – these sites should be excluded from Renewi's corporate footprint and the data should be restated for every affected year up until the base year (FY22) o If Renewi acquires sites/operations/divisions that result in a >5% impact on Group level Scope 1 & 2 footprint – the data should be restated for every affected year up until the base year (FY22) Any changes to the reporting boundary (including those where the impact is less than 5% on a Group level must be communicated annually as a part of data interpretation, providing a context for GHG raise and fall that cannot be attributable to the GHG management practices, but the restatement of baselines is not necessary. New sites and entities are added in the year of acquisition: data should be retrieved from the entity for the full year. Also covering the months within the reported year before the acquisition happened. This approach is modelled on the steps taken to integrate Paro into Renewi. Analogically, sites divested should be excluded from the total footprint in the year of purchase. Data should still be collected for them internally, for the benefit of the new owner's reporting. Sites closing should be accounted for in full until the date of closure.	Yes

C5.2

(C5.2) Provide your base year and base year emissions.

Scope 1

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

597439.494

Comment

Following the GHG protocol. The above number includes emissions from processes (including composting), combustion. Refrigerants have been screened out as not material given the company nature. We are further able to divide the combustion data into: combustion on the road (for collection intensity tracking) and on-site (for operations intensity tracking). As mentioned in the last year's disclosure, this figure is a fruit of our work on a more robust GHG inventory for 2023 and the figure we will be using for our SBTI targets submission.

Scope 2 (location-based)

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

53367.76

Comment

Following the GHG protocol. As mentioned in the last year's disclosure, this figure is a fruit of our work on a more robust GHG inventory for 2023 and the figure we will be using for our SBTI targets submission.

Scope 2 (market-based)

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

51059.92

Comment

Following the GHG protocol. As mentioned in the last year's disclosure, this figure is a fruit of our work on a more robust GHG inventory for 2023 and the figure we will be using for our SBTI targets submission.

Scope 3 category 1: Purchased goods and services

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

962340

Comment

Due to the similar nature of goods purchased and structure of the data in internal systems, this figure refers to Category 1 and Category 2 reported jointly.

Scope 3 category 2: Capital goods

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

0

Comment

We are reporting this figure jointly with Category 1, due to the similar nature of goods purchased and structure of the data in internal systems. Please see above.

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

46334

Comment

Well-to-tank emissions from the fuels used and T&D emissions from the electricity used.

Scope 3 category 4: Upstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 5: Waste generated in operations

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

183748

Comment

Scope 3 category 6: Business travel

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

926

Comment

Scope 3 category 7: Employee commuting

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

11647

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 9: Downstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 12: End of life treatment of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 15: Investments

Base year start

April 1 2021

Base year end

March 31 2022

Base year emissions (metric tons CO2e)

17142

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (downstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.3

(C5.3) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

Defra Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance, 2019

IEA CO2 Emissions from Fuel Combustion

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

The Greenhouse Gas Protocol: Scope 2 Guidance

The Greenhouse Gas Protocol: Corporate Value Chain (Scope 3) Standard

C6. Emissions data

C6.1

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

Reporting year

Gross global Scope 1 emissions (metric tons CO2e)
528555.437

Start date
April 1 2022

End date
March 31 2023

Comment
Scope 1 emissions figure includes biogenic emissions.

Past year 1

Gross global Scope 1 emissions (metric tons CO2e)
597439.494

Start date
April 1 2021

End date
March 31 2022

Comment
Scope 1 emissions figure includes biogenic emissions. Figure restated in FY23 following a robust methodology review.

C6.2

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

Row 1

Scope 2, location-based
We are reporting a Scope 2, location-based figure

Scope 2, market-based
We are reporting a Scope 2, market-based figure

Comment

C6.3

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

Reporting year

Scope 2, location-based
45002.09

Scope 2, market-based (if applicable)
45087.9

Start date
April 1 2022

End date
March 31 2023

Comment

Past year 1

Scope 2, location-based
53367.76

Scope 2, market-based (if applicable)
51059.92

Start date
April 1 2021

End date
March 31 2022

Comment

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1, Scope 2 or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure?

Yes

C6.4a

(C6.4a) Provide details of the sources of Scope 1, Scope 2, or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure.

Source of excluded emissions

Refrigerants

Scope(s) or Scope 3 category(ies)

Scope 1

Relevance of Scope 1 emissions from this source

Emissions are relevant but not yet calculated

Relevance of location-based Scope 2 emissions from this source

<Not Applicable>

Relevance of market-based Scope 2 emissions from this source

<Not Applicable>

Relevance of Scope 3 emissions from this source

<Not Applicable>

Date of completion of acquisition or merger

<Not Applicable>

Estimated percentage of total Scope 1+2 emissions this excluded source represents

1

Estimated percentage of total Scope 3 emissions this excluded source represents

<Not Applicable>

Explain why this source is excluded

Scope 1 refrigerant emissions from equipment leaks are excluded from the FY22 and FY23 scope 1 emissions due to the absence of sufficient quality data. These emissions are excluded on the basis of materiality, and we estimate the excluded emissions to be less than 1% of the total Renewi scope 1 and 2 emissions

Explain how you estimated the percentage of emissions this excluded source represents

We are not able to accurately estimate the size of this omission in a quantitative way. Qualitative premises behind our decision include:

- the fact that only office spaces are air conditioned or equipped with small refrigerators for staff use. Majority of our sites are production halls or open-air facilities, not the offices. Some addresses do not have a separate office space at all. Therefore the office surface only constitutes a tiny fraction of total area operated by Renewi
- Air conditioning in the trucks - is limited only to the driver's cabin as there is no cold chain elements at Renewi; we currently lack the equipment to detect these leakages, but consider it small given the small size of the of the cabins that are being cooled, and the delta achieved between the air temperature and comfortable driving temperature being much smaller than for refrigerated goods.

Source of excluded emissions

Sites leaving the operational control between the baseline recalculation and the reporting year.

Scope(s) or Scope 3 category(ies)

Scope 1

Scope 2 (location-based)

Scope 2 (market-based)

Relevance of Scope 1 emissions from this source

Emissions are not relevant

Relevance of location-based Scope 2 emissions from this source

Emissions are not relevant

Relevance of market-based Scope 2 emissions from this source

Emissions are not relevant

Relevance of Scope 3 emissions from this source

<Not Applicable>

Date of completion of acquisition or merger

<Not Applicable>

Estimated percentage of total Scope 1+2 emissions this excluded source represents

Estimated percentage of total Scope 3 emissions this excluded source represents

<Not Applicable>

Explain why this source is excluded

Sites which were under Renewi's operational control in FY22 but not in FY23 (e.g., due to disposal) are already excluded from the FY22 baseline to increase year on year comparability for the future horizon.

Explain how you estimated the percentage of emissions this excluded source represents

C6.5

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

Purchased goods and services

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

1052773

Emissions calculation methodology

Spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

Due to the similar nature of goods purchased and structure of the data in internal systems, this figure refers to Category 1 and Category 2 reported jointly. Full records of purchases completed in the reporting period were extracted from multiple procurement systems used by Renewi. All these line items have been categorized by the spend category as labelled in the system or by supplier's name to a relevant industry for matching with the relevant spend-based emission factors. All currencies were converted to EUR at the all-year average exchange rate and the EFs were updated to the current year valorized for the purchasing power for the calendar year 2022 where the majority of data falls. Excluded were: intercompany movements within the Group (as these are already captured in Scope 1), and records related to: fuel, electricity, travel and rental as these are obtained otherwise in other Scopes and categories.

Capital goods

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

Emissions calculation methodology

Spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

We are reporting this figure jointly with Category 1, due to the similar nature of goods purchased and structure of the data in internal systems. Please see above.

Fuel-and-energy-related activities (not included in Scope 1 or 2)

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

42897

Emissions calculation methodology

Hybrid method
Fuel-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

Well-to-tank emissions from the fuels used and T&D emissions from the electricity used.

Upstream transportation and distribution

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

The work is ongoing internally to improve the quality of the datasets available. This category will be disclosed jointly with category 9 in the future, once we can offer consistent data.

Waste generated in operations

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

186476

Emissions calculation methodology

Waste-type-specific method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

This category includes the tonnages that went out of Renewi towards landfills or towards incineration without energy recovery. Any such activities carried out by Renewi have been excluded as already covered by Scope 1 and 2, therefore only covering those of external parties. Data come from the weighbridge systems. Renewi has been advised to also place the wastewater outgoing to municipal sewages in this category.

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

1764

Emissions calculation methodology

Spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

This category sums up the figures related to the employees of logistics (collection), production (stationary facilities) and SG&A (admin staff) for the following activities in P&L:

Conferences/seminars/excursion, Travel and entertainment. In the future we anticipate moving to a higher granularity reporting method based on the employee expenses data instead, having calibrated the expenses systems with this aim in mind. First results of this improvement will be available in FY24.

Employee commuting

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

11801

Emissions calculation methodology

Average data method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

Please explain

Number of FTEs was diminished by the number of colleagues with a company vehicle (as these were captured in Scope 1 and 2) and multiplied by a generic EF for commuting per FTE from Quantis tool. This approach covers all divisions within the Group.

Upstream leased assets

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

We are in progress of integrating the financial data on leased assets with the GHG reporting purposes to achieve full transparency of the emissions from leased assets, upstream and downstream, according to one of the methods specified by the GHG Protocol (on asset- not on an account-level).

Downstream transportation and distribution

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

The work is ongoing internally to improve the quality of the datasets available. This category will be disclosed jointly with category 9 in the future, once we can offer consistent data.

Processing of sold products

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO₂e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Current GHG Protocol on Scope 3 around categories 10, 11 and 12 is not providing sufficient guidance for waste recyclers to fit into. The determinants of a "finished good" and an "intermediate product" in circular business model are not conclusive, as well as to what constitutes "use" and what constitutes "processing" or "end of life". Renewi is tracking the destinations of its materials through the Recycling Rate KPI, but is awaiting a sector-specific guidance and its consistent adoption by peers to start considering these categories relevant for GHG reporting.

Use of sold products

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO₂e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Current GHG Protocol on Scope 3 around categories 10, 11 and 12 is not providing sufficient guidance for waste recyclers to fit into. The determinants of a "finished good" and an "intermediate product" in circular business model are not conclusive, as well as to what constitutes "use" and what constitutes "processing" or "end of life". Renewi is tracking the destinations of its materials through the Recycling Rate KPI, but is awaiting a sector-specific guidance and its consistent adoption by peers to start considering these categories relevant for GHG reporting.

End of life treatment of sold products

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO₂e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Current GHG Protocol on Scope 3 around categories 10, 11 and 12 is not providing sufficient guidance for waste recyclers to fit into. The determinants of a "finished good" and an "intermediate product" in circular business model are not conclusive, as well as to what constitutes "use" and what constitutes "processing" or "end of life". Renewi is tracking the destinations of its materials through the Recycling Rate KPI, but is awaiting a sector-specific guidance and its consistent adoption by peers to start considering these categories relevant for GHG reporting.

Downstream leased assets

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO₂e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

We are in progress of integrating the financial data on leased assets with the GHG reporting purposes to achieve full transparency of the emissions from leased assets, upstream and downstream, according to one of the methods specified by the GHG Protocol (on asset- not on an account-level).

Franchises

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Not applicable - Renewi does not operate under such a business model.

Investments

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

53258

Emissions calculation methodology

Average data method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

Please explain

Having generated a list of investments such as investment in pensions, projects or other funds, and the sites/assets that fall under financial but not operational control of Renewi (JVs, Investment funds, unlisted investments, associates, entities consolidated into group but where Renewi has no operational control), we have multiplied the monetary worth of investment x industry-specific EF.

Monetary worth of investment was understood as the revenue from investment where that revenue was paid out, and in case of the funds (as revenue will only be realized at the moment of withdrawal) we have taken the total sum stored in the fund.

Other (upstream)

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Upstream emissions from the goods that came to Renewi to be recycled as a result of Renewi's commercial activities (clients pay Renewi to take the materials off their hands) cannot be classified elsewhere. Following the logic behind the principle of "polluter pays", these emissions should be in full attributed to the producers of waste not to the recyclers. This category is therefore 0

Other (downstream)

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

No circumstances identified where this category would be relevant.

C6.5a

(C6.5a) Disclose or restate your Scope 3 emissions data for previous years.

Past year 1

Start date

April 1 2021

End date

May 31 2022

Scope 3: Purchased goods and services (metric tons CO2e)

962340

Scope 3: Capital goods (metric tons CO2e)

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

46334

Scope 3: Upstream transportation and distribution (metric tons CO2e)

Scope 3: Waste generated in operations (metric tons CO2e)

183748

Scope 3: Business travel (metric tons CO2e)

926

Scope 3: Employee commuting (metric tons CO2e)

11647

Scope 3: Upstream leased assets (metric tons CO2e)

Scope 3: Downstream transportation and distribution (metric tons CO2e)

Scope 3: Processing of sold products (metric tons CO2e)

Scope 3: Use of sold products (metric tons CO2e)

Scope 3: End of life treatment of sold products (metric tons CO2e)

Scope 3: Downstream leased assets (metric tons CO2e)

Scope 3: Franchises (metric tons CO2e)

Scope 3: Investments (metric tons CO2e)

17142

Scope 3: Other (upstream) (metric tons CO2e)

Scope 3: Other (downstream) (metric tons CO2e)

Comment

C6.7

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

Yes

C6.7a

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

	CO2 emissions from biogenic carbon (metric tons CO2)	Comment
Row 1	185347.377	Biogenic portion of emissions related to Scope 1-type of activities, FY23 (reported year). We include this figure in our total footprint in our Annual Report.

C6.10

(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.

Intensity figure

18.8

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

82230

Metric denominator

Other, please specify (Metric ton of materials transported by Renewi fleet)

Metric denominator: Unit total

4375175

Scope 2 figure used

Market-based

% change from previous year

6.6

Direction of change

Decreased

Reason(s) for change

Change in renewable energy consumption

Other emissions reduction activities

Change in output

Please explain

The gradual replacement of our fleet by more fuel-efficient cars, acquisition of 2 more EV trucks, expansion of Green Collective - our collaborative activity to optimize the transportation routes for waste collection together with our peers, especially around dense city-centres, has coupled with an overall reduction of volumes.

Intensity figure

8.1

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

89063.6

Metric denominator

Other, please specify (Metric ton of materials processed by Renewi sites)

Metric denominator: Unit total

10960085

Scope 2 figure used

Market-based

% change from previous year

5

Direction of change

Increased

Reason(s) for change

Change in renewable energy consumption

Change in output

Please explain

Our high fixed energy demand caused the drop in our emissions to be slower than the drop in the tonnages. We expect to see a long-term results of the activities around green energy supply we have implemented this year, to yield results in the coming years.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

No

C7.2

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

Country/area/region	Scope 1 emissions (metric tons CO2e)
Netherlands	251222.05
Belgium	89612.7
United Kingdom of Great Britain and Northern Ireland	85016.66
France	1481.81
Portugal	306.88
Western Europe	100915.36

C7.3

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

By business division

C7.3a

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

Business division	Scope 1 emissions (metric ton CO2e)
Commercial Waste (solid waste and other waste management activities in Belgium and Netherlands)	276881.59
Mineralz & Water (M&W) - (activities involving cleaning ash and soils, gravel, sand and water)	157163.08
Specialties (UK Municipal PPP contracts, Maltha-glass, and Coolrec - WEE recycling)	93761.56
Group (overheads)	749.21

C7.5

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

Country/area/region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Netherlands	34714.48	29782.88
Belgium	3045.01	2635.4
United Kingdom of Great Britain and Northern Ireland	6325.08	11486.08
France	343.71	322.9
Portugal	285.13	432.25
Western Europe	288.7	428.4

C7.6

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

By business division

C7.6a

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

Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Commercial Waste (solid waste and other waste management activities in Belgium and Netherlands)	14596.18	1941.5
Mineralz & Water (M&W) - (activities involving cleaning ash and soils, gravel, sand and water)	18557.77	27442.37
Specialties (UK Municipal PPP contracts, Maltha-glass, and Coolrec - WEE recycling)	11479.27	15502.85
Group (overheads)	368.89	201.19

C7.7

(C7.7) Is your organization able to break down your emissions data for any of the subsidiaries included in your CDP response?

No

C7.9

(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?

Decreased

C7.9a

(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.

	Change in emissions (metric tons CO2e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption		<Not Applicable >		
Other emissions reduction activities	3821	Decreased	0.7	Maintenance activities of our UK operations
Divestment	471.19	Decreased	0.1	One site was divested and well traced - Seraing in Belgium. There were other 3 sites that were divested from M&W division, but their emissions have not been traced on a site-level in FY22. We have improved the data granularity since. However the cumulative emissions from these sites do not exceed 161.13 tCO2e.
Acquisitions	11.35	Increased	0.002	The acquisition of Paro resulted in adding 2 sites to our reporting boundary (Sicilieweg and Velporweg). Their cumulative emissions (Scope 1 and 2, market-based) reported in this line.
Mergers		<Not Applicable >		
Change in output	32424.971	Decreased	5.7	We have seen a 5% drop in tonnages processed between FY22 and FY23. Similarly, 5% of the FY22 emissions has been attributed proportionately to the change in output. This is most visible in the drop of biogenic emissions in Belgium.
Change in methodology		<Not Applicable >		
Change in boundary		<Not Applicable >		Since the establishment of the reporting boundary, we have
Change in physical operating conditions	295.55	Decreased	0.1	Decrease in the business activities due to changes in the business strategy at M&W
Unidentified		<Not Applicable >		
Other	37001	Decreased	6.5	Further reasons that we have not attributed to specific tonnages include: change in the makeup of organic waste admitted to our facilities, additional initiatives to reduce dryer gas consumption in 2 of our CW NL sites, changes in renewable energy consumption, decrease in the heating needs for which natural gas is used, software update for GasSim- a software that is used for modelling fugitive gas emissions at our UK landfills - and updating with local values, change of travel patterns of staff.

C7.9b

(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?

Market-based

C8. Energy

C8.1

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

More than 5% but less than or equal to 10%

C8.2

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

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	Yes

C8.2a

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

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	LHV (lower heating value)	14145.37	496651.28	510796.65
Consumption of purchased or acquired electricity	<Not Applicable>	48897.79	126055.61	174953.41
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	82859.43	<Not Applicable>	82859.43
Total energy consumption	<Not Applicable>	145902.6	622706.9	768609.49

C8.2b

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

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

C8.2c

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

Sustainable biomass

Heating value

Please select

Total fuel MWh consumed by the organization

22578.74

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

22578.74

Comment

This biomass is a fuel to the process of generating combined heat and power from our landfills and anaerobic digestion processes.

Other biomass

Heating value
Please select

Total fuel MWh consumed by the organization

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam
<Not Applicable>

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment
Not applicable

Other renewable fuels (e.g. renewable hydrogen)

Heating value
Unable to confirm heating value

Total fuel MWh consumed by the organization
14145.4

MWh fuel consumed for self-generation of electricity
0

MWh fuel consumed for self-generation of heat
0

MWh fuel consumed for self-generation of steam
<Not Applicable>

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration
0

Comment
All biofuels used in our fuel mix

Coal

Heating value
Please select

Total fuel MWh consumed by the organization

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam
<Not Applicable>

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment
Not applicable

Oil

Heating value
LHV

Total fuel MWh consumed by the organization
400177.5

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam
<Not Applicable>

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment
Mineral diesel and kerosene used in our organization. We are at the moment not able to distinguish between the method of application other than site/fleet.

Gas**Heating value**

LHV

Total fuel MWh consumed by the organization

90091.6

MWh fuel consumed for self-generation of electricity**MWh fuel consumed for self-generation of heat****MWh fuel consumed for self-generation of steam**

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration**Comment**

LPG, LNG, Natural gas, propane. We are at the moment not able to distinguish between the method of application other than site/fleet.

Other non-renewable fuels (e.g. non-renewable hydrogen)**Heating value**

LHV

Total fuel MWh consumed by the organization

6382.2

MWh fuel consumed for self-generation of electricity**MWh fuel consumed for self-generation of heat****MWh fuel consumed for self-generation of steam**

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration**Comment**

Petrol, mineral content

Total fuel**Heating value**

LHV

Total fuel MWh consumed by the organization

510796.65

MWh fuel consumed for self-generation of electricity**MWh fuel consumed for self-generation of heat****MWh fuel consumed for self-generation of steam**

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration**Comment****C8.2d****(C8.2d) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.**

	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	82859.43	23180.89	82859.43	23180.89
Heat	2094.64	2094.64	2094.64	2094.64
Steam	0	0	0	0
Cooling	0	0	0	0

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

Country/area of low-carbon energy consumption

Netherlands

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Renewable energy mix, please specify

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

47371.98

Tracking instrument used

Contract

Country/area of origin (generation) of the low-carbon energy or energy attribute

Netherlands

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

<Not Applicable>

Comment

Cumulative figure of all quarters' volumes where the EF was 0 due to having been assigned a green certificate.

Country/area of low-carbon energy consumption

Belgium

Sourcing method

Purchase from an on-site installation owned by a third party (on-site PPA)

Energy carrier

Electricity

Low-carbon technology type

Solar

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

328.39

Tracking instrument used

Contract

Country/area of origin (generation) of the low-carbon energy or energy attribute

Belgium

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

<Not Applicable>

Comment

Cumulative figure of all quarters' volumes where the EF was 0 due to a local collaboration with a 3rd party providing green energy (eg. if we lease out the roof to a 3rd party who installs PV there - buying back the energy, we can on-site verify the origin).

Country/area of low-carbon energy consumption

Netherlands

Sourcing method

Purchase from an on-site installation owned by a third party (on-site PPA)

Energy carrier

Electricity

Low-carbon technology type

Solar

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

1197.41

Tracking instrument used

Contract

Country/area of origin (generation) of the low-carbon energy or energy attribute

Netherlands

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

<Not Applicable>

Comment

Cumulative figure of all quarters' volumes where the EF was 0 due to a local collaboration with a 3rd party providing green energy (eg. if we lease out the roof to a 3rd party

C8.2g

(C8.2g) Provide a breakdown by country/area of your non-fuel energy consumption in the reporting year.

Country/area

Netherlands

Consumption of purchased electricity (MWh)

114644.91

Consumption of self-generated electricity (MWh)

10274.77

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

124919.68

Country/area

Belgium

Consumption of purchased electricity (MWh)

18454.6

Consumption of self-generated electricity (MWh)

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

Consumption of purchased heat, steam, and cooling (MWh)

Consumption of self-generated heat, steam, and cooling (MWh)

Total non-fuel energy consumption (MWh) [Auto-calculated]

<Calculated field>

Country/area

France

Consumption of purchased electricity (MWh)

0.34

Consumption of self-generated electricity (MWh)

5380.11

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

5380.45

Country/area

Portugal

Consumption of purchased electricity (MWh)

1537.93

Consumption of self-generated electricity (MWh)

327.45

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1865.38

Country/area

United Kingdom of Great Britain and Northern Ireland

Consumption of purchased electricity (MWh)

32708.03

Consumption of self-generated electricity (MWh)

7249.17

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

2094.64

Total non-fuel energy consumption (MWh) [Auto-calculated]42051.84

C9. Additional metrics

C9.1

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

Waste

Metric value

2549000

Metric numerator

Carbon avoidance by activities (metric tonnes)

Metric denominator (intensity metric only)

NA

% change from previous year

2

Direction of change

Decreased

Please explain

The same figure over tonnes of waste handled gives us 233 tCO₂ avoided per tonne handled FY23, while for FY22 this was 225. This means that despite the drop in overall tonnages (reflected by the absolute metric) we have been able to find more carbon-efficient applications as an alternative material for our outputs. Please refer to the Sustainability Review FY23, p. 20 for an infographic on how we understand carbon avoidance and Renewi's role in providing an alternative to virgin materials.

Description

Waste

Metric value

63.6

Metric numerator

Waste recycled

Metric denominator (intensity metric only)

Total waste handled

% change from previous year

1.8

Direction of change

Increased

Please explain

*note this is 1.8 percentage points, not 1.8 percent. Last year's figure was 61.8%

This metric is the indicator of our recycling rate, the key KPI for Renewi's business. Our objective is to reach 75% of all incoming waste becoming recycled. This does NOT include incineration with energy recovery or waste-derived fuels: only material-to-material recycling is accounted for in this metric. Our Sustainability Review FY23 provides more details of how we work on increasing the recycling rate year by year.

C10. Verification

C10.1

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

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	No third-party verification or assurance

C10.1a

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

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Renewi plc - ISAE 3410 - FY22 FY23 - Final Report.pdf

Page/ section reference

Full document. Refers to all Scope 1+2 emissions.

Relevant standard

ISAE 3410

Proportion of reported emissions verified (%)

100

C10.1b

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

Scope 2 approach

Scope 2 market-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Renewi plc - ISAE 3410 - FY22 FY23 - Final Report.pdf

Page/ section reference

Full document. Refers to all Scope 1+2 emissions. Verification has been carried out for both Location-based and Market-based approach, however it's the market-based approach that was given more prominence in our Annual Report and Sustainability Review FY23.

Relevant standard

ISAE 3410

Proportion of reported emissions verified (%)

100

C10.2

(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?

No, but we are actively considering verifying within the next two years

C11. Carbon pricing

C11.1

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

No, but we anticipate being regulated in the next three years

C11.1d

(C11.1d) What is your strategy for complying with the systems you are regulated by or anticipate being regulated by?

In the case of the law above, ETS (UK ETS), we will attempt to step up opportunities to not only minimize our own carbon footprint, but also enable carbon avoidance by the companies in our business network (verifying if any of the waste processing technologies have any potential for producing green certificates, or whether we could employ CCU for our own facilities).

In a broader sense, we engage with a wide range of regulators to interpret and understand European Commission regulations and national legislation and to ensure the best possible compliance with existing and prospective regulations. We have implemented the International Sustainability Rating System (ISRS) to provide structure and better data for all our safety and compliance activities. How we engage with compliance risk:

- Horizon-scanning by competent internal specialists to ensure changes are planned for and managed, and potential opportunities captured
- Alignment of business model with national and international policy and law towards more sustainable waste management practices
- Engagement with regulators and legislators to discuss what is possible in treating waste and to support tough but achievable sorting and product quality targets

For example, the Flanders government in Belgium is progressing its climate plan by introducing further waste-handling regulations. In January 2023, an amendment to the current 'Vlarema' legislation stipulates that 24 commercial waste streams are separated at source. Vlarema 8 is designed to reduce the volume of commercial waste sent for incineration while substantially increasing recycling rates. This progressive move aligns with Renewi's waste-to-product mission. We are responding by investing €60m in technologically advanced sorting lines at three of our sites. The first will be installed in Ghent this year, with Puurs and Beringen due to follow in 2023. State-of-the-art technology will enable us to produce greater volumes of high-quality, clean raw materials and ensure our customers go beyond Vlarema 8 compliance.

C11.2

(C11.2) Has your organization canceled any project-based carbon credits within the reporting year?

No

C11.3

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

No, but we anticipate doing so in the next two years

C12. Engagement

C12.1

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

- Yes, our customers/clients
- Yes, other partners in the value chain

C12.1b

(C12.1b) Give details of your climate-related engagement strategy with your customers.

Type of engagement & Details of engagement

Education/information sharing	Share information about your products and relevant certification schemes (i.e. Energy STAR)
-------------------------------	---------------------------------------------------------------------------------------------

% of customers by number

100

% of customer - related Scope 3 emissions as reported in C6.5

Please explain the rationale for selecting this group of customers and scope of engagement

Our waste-producing customers are the ones that control the quality of waste streams that we receive. Hence, engaging with them and showing the importance of high-quality recycling in driving the circular economy and minimizing carbon footprints of material production is key to our business success. We have regular engagement through daily interactions, knowledge-sharing sessions and reports on sustainability performance, being part of coalitions that contribute to sustainability and circularity, separation advice, education and training programmes.

Impact of engagement, including measures of success

We do not formally measure this

C12.1d

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

With our innovation partners: bespoke projects that minimize emissions, replace fossil fuels or maximize resource use. It is strategically important for Renewi to innovate and improve valorisations of waste, increasing the volume and quality of the secondary materials we produce. By extracting more value from waste, Renewi will increase revenues and margins, as well as market share, so we can be a leader in recycling. How we measure this: capital investment in innovation, the number of projects within our innovation pipeline. Outcomes of the engagement: Renewi has a comprehensive innovation pipeline delivering incremental waste processing and enabling recycling where this previously was not possible.

C12.2

(C12.2) Do your suppliers have to meet climate-related requirements as part of your organization's purchasing process?

No, but we plan to introduce climate-related requirements within the next two years

C12.3

(C12.3) Does your organization engage in activities that could either directly or indirectly influence policy, law, or regulation that may impact the climate?

Row 1

External engagement activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

Yes, we engage directly with policy makers

Yes, our membership of/engagement with trade associations could influence policy, law, or regulation that may impact the climate

Does your organization have a public commitment or position statement to conduct your engagement activities in line with the goals of the Paris Agreement?

Please select

Attach commitment or position statement(s)

<Not Applicable>

Describe the process(es) your organization has in place to ensure that your external engagement activities are consistent with your climate commitments and/or climate transition plan

Primary reason for not engaging in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

<Not Applicable>

Explain why your organization does not engage in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

<Not Applicable>

C12.3a

(C12.3a) On what policy, law, or regulation that may impact the climate has your organization been engaging directly with policy makers in the reporting year?

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Circular Economy, emissions trading schemes, climate law/targets, competition law, waste legislation, specific product legislation

Category of policy, law, or regulation that may impact the climate

Low-carbon products and services

Focus area of policy, law, or regulation that may impact the climate

Circular economy

Extended Producer Responsibility (EPR)

Other, please specify (Climate-related targets, climate transition plans, Emissions- CO2, Renewable energy generation, Carbon taxes, Emissions trading schemes, taxes on products and services)

Policy, law, or regulation geographic coverage

National

Country/area/region the policy, law, or regulation applies to

Netherlands

EU27

Your organization's position on the policy, law, or regulation

Support with minor exceptions

Description of engagement with policy makers

Meetings, site visits, working groups, sharing case studies

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

Exceptions are typically minor and refer to technical capabilities or industry realities that we need to embed in regulations. Overall this has a nature of supportive constructive feedback to improve the implementability of initiatives rather than any sort of opposition.

Have you evaluated whether your organization's engagement on this policy, law, or regulation is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Please explain whether this policy, law or regulation is central to the achievement of your climate transition plan and, if so, how?

These policies and laws are central to the achievement of our climate transition plan. With the right policy, our activities can be stimulated and there contribute to a circular economy and climate.

C12.3b

(C12.3b) Provide details of the trade associations your organization is a member of, or engages with, which are likely to take a position on any policy, law or regulation that may impact the climate.

Trade association

Other, please specify (Vereniging Afvalbedrijven)

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

Yes, we publicly promoted their current position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

We publicly promote their current position and are in regular contact to express our position on different topics via meetings and working groups. We are currently working together on a sector wide climate target.

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Trade association

Other, please specify (Branchevereniging Recycling Breken en Sorteren)

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

Yes, we publicly promoted their current position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

We publicly promote their current position and are in regular contact to express our position on different topics. Their narrative revolves around the promotion of circular economy and removing barriers to high-quality recycling.

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Please select

Trade association

Other, please specify (The European Federation of National Waste Management Federations)

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

Yes, we publicly promoted their current position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

While there is no single point of reference to the organizations overall climate statement, they have submitted numerous feedback to the EU in reference to individual climate-relates measures such as Fit for 55: CBAM, EU ETS, European Green Deal and Circular Economy Action Plan.

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Trade association

Other, please specify (Denuo)

Is your organization's position on climate change policy consistent with theirs?

Unknown

Has your organization attempted to influence their position in the reporting year?

No, we did not attempt to influence their position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

<Not Applicable>

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Trade association

Other, please specify (MVO)

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

Yes, we publicly promoted their current position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

MVO is advocating for New Economy, which they define as: climate neutral, circular, and inclusive, with fair supply chains. Renewi agrees with this position and believes that the New Economy is one where we can thrive as a business. Membership of MVO helps us facilitate relevante collaborations and innovation.

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

No, we have not evaluated

C12.4

(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).

Publication

In mainstream reports, incorporating the TCFD recommendations

Status

Complete

Attach the document

Page/Section reference

<https://www.renewi.com/en/investors/investor-relations/reports-and-presentations> Renewi Annual Report (too large to upload hence the link)

Content elements

- Governance
- Strategy
- Risks & opportunities
- Emissions figures
- Emission targets
- Other metrics

Comment

C12.5

(C12.5) Indicate the collaborative frameworks, initiatives and/or commitments related to environmental issues for which you are a signatory/member.

	Environmental collaborative framework, initiative and/or commitment	Describe your organization's role within each framework, initiative and/or commitment
Row 1	UN Global Compact	Advanced reporter

C15. Biodiversity

C15.1

(C15.1) Is there board-level oversight and/or executive management-level responsibility for biodiversity-related issues within your organization?

	Board-level oversight and/or executive management-level responsibility for biodiversity-related issues	Description of oversight and objectives relating to biodiversity	Scope of board-level oversight
Row 1	No, and we do not plan to have both within the next two years	<Not Applicable>	<Not Applicable>

C15.2

(C15.2) Has your organization made a public commitment and/or endorsed any initiatives related to biodiversity?

	Indicate whether your organization made a public commitment or endorsed any initiatives related to biodiversity	Biodiversity-related public commitments	Initiatives endorsed
Row 1	No, and we do not plan to do so within the next 2 years	<Not Applicable>	<Not Applicable>

C15.3

(C15.3) Does your organization assess the impacts and dependencies of its value chain on biodiversity?

Impacts on biodiversity

Indicate whether your organization undertakes this type of assessment

No and we don't plan to within the next two years

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

Tools and methods to assess impacts and/or dependencies on biodiversity

<Not Applicable>

Please explain how the tools and methods are implemented and provide an indication of the associated outcome(s)

<Not Applicable>

Dependencies on biodiversity

Indicate whether your organization undertakes this type of assessment

No and we don't plan to within the next two years

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

Tools and methods to assess impacts and/or dependencies on biodiversity

<Not Applicable>

Please explain how the tools and methods are implemented and provide an indication of the associated outcome(s)

<Not Applicable>

C15.4

(C15.4) Does your organization have activities located in or near to biodiversity- sensitive areas in the reporting year?

Not assessed

C15.5

(C15.5) What actions has your organization taken in the reporting year to progress your biodiversity-related commitments?

	Have you taken any actions in the reporting period to progress your biodiversity-related commitments?	Type of action taken to progress biodiversity- related commitments
Row 1	Yes, we are taking actions to progress our biodiversity-related commitments	Species management Education & awareness

C15.6

(C15.6) Does your organization use biodiversity indicators to monitor performance across its activities?

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
Row 1	No, we do not use indicators, but plan to within the next two years	Please select

C15.7

(C15.7) Have you published information about your organization's response to biodiversity-related issues for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Report type	Content elements	Attach the document and indicate where in the document the relevant biodiversity information is located
No publications	<Not Applicable>	<Not Applicable>

C16. Signoff

C-FI

(C-F) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

C16.1

(C16.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	Chief Executive Officer	Chief Executive Officer (CEO)

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Public

Please confirm below

I have read and accept the applicable Terms