

C0. Introduction

C0.1

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

Founded in 1975 with a single truck, Casella Waste Systems, Inc. is a regional, vertically integrated solid waste services company. We provide resource management expertise and services to residential, commercial, municipal and industrial customers, primarily in the areas of solid waste collection and disposal, transfer, recycling and organics services. We provide integrated solid waste services throughout the Northeastern and Mid-Atlantic regions of the U.S., with our headquarters located in Rutland, Vermont. As of January 31, 2023, we owned and/or operated 49 solid waste collection operations, 65 transfer stations, 26 recycling facilities, eight Subtitle D landfills, three landfill gas-to-energy facilities and one landfill permitted to accept construction and demolition ("C&D") materials. In addition to these operations, Casella services customers throughout the United States.

Greenhouse Gas Emissions Inventory: In 2022, Casella's Scope 1 and 2 GHG emissions were calculated to be 596,071 metric tons CO₂e. Of this total, modeled fugitive landfill emissions accounted for 81.4%, fleet fuel accounted for 16.8%, and facility heating and electricity accounted for 1.8%.

Climate Leadership: Casella was the only waste and recycling company among the charter members of the U.S. Environmental Protection Agency (EPA) Climate Leaders program. Under that program, the company began voluntarily measuring and disclosing its company-wide greenhouse gas emissions well before mandated. From 2005 to 2010, we reduced our total Scope 1 and 2 greenhouse gas emissions by 45%, exceeding our first reduction target. In January 2012, Casella was recognized by the EPA, the Association of Climate Change Officers (ACCO), the Center for Climate and Energy Solutions (C2ES), and The Climate Registry (TCR) with a Climate Leadership Award for Excellence in GHG Management.

Net Climate Benefit: For every ton of GHG we generate managing our customers' and communities' waste and recyclables, we estimate that approximately 4 tons of carbon are eliminated elsewhere in the economy through recycling, energy production, and carbon sequestration activities. We calculate this Net Climate Benefit Factor using EPA factors and tools. Specifically, the calculation adds the emission benefits of our recycling, renewable energy, and sequestration activities and then divides this number by our total Scope 1 and 2 emissions.

GHG strategy: Building upon the 45% reduction we already achieved from 2005 to 2010, we have set a **target to reduce our total Scope 1 and 2 greenhouse gas emissions to 40% below 2010 levels by 2030**. We will aim to achieve this through further investments in landfill gas infrastructure and fleet efficiency programs. An important element of our growth strategy includes growing the sustainable materials management services that our customers demand; this reduces carbon emissions elsewhere in the economy. We have **established a target to increase our Net Climate Benefit Factor to 5x by 2030**. This factor is explained in section 9.

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

January 1 2022

End date

December 31 2022

Indicate if you are providing emissions data for past reporting years

No

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

C0.3

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

United States of America

C0.4

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

USD

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
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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
Chief Executive Officer (CEO)	The CEO, who also serves as the Chairman of our Board of Directors, is responsible for monitoring climate-related information and adapting the company's strategy, as needed, based on that information.
Board-level committee	The Nominating and ESG Committee provides oversight and advising with respect to issues, strategies, goals, objectives, policies and practices pertaining to the company's sustainability and corporate responsibility initiatives having significant financial or reputational impact. The Audit Committee of our Board of Directors monitors the Company's guidelines and policies governing exposure to risk. The company has in place an Enterprise Risk Management process that involves systematic risk identification and mitigation covering the categories of strategic, financial, operational, and compliance risk.

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 – some meetings	Monitoring progress towards corporate targets Reviewing and guiding the risk management process	<Not Applicable >	Climate-related issues are discussed at least annually in the scheduled annual review of our ESG performance and our progress toward our 2030 sustainability goals. Climate-related issues are discussed during annual sustainability updates to the Nominating and ESG Committee. Climate-related issues may also arise during quarterly ERM updates to the Board Audit Committee and annual ERM updates to the full Board.

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	Not assessed	<Not Applicable>	<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

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

Please select

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

As important matters arise

Please explain

Position or committee

Chief Financial Officer (CFO)

Climate-related responsibilities of this position

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

Please select

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

Quarterly

Please explain

Position or committee

General Counsel

Climate-related responsibilities of this position

Managing public policy engagement that may impact the climate
 Assessing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

Please select

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

As important matters arise

Please explain

Position or committee

Risk committee

Climate-related responsibilities of this position

Assessing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

Please select

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

Annually

Please explain

Position or committee

Other, please specify (SVP Sustainable Growth)

Climate-related responsibilities of this position

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

Please select

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

Quarterly

Please explain

Position or committee

Other, please specify (VP of Engineering and Compliance)

Climate-related responsibilities of this position

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

Please select

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

Quarterly

Please explain

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	Casella employees in various roles are eligible for monetary and/or non-monetary incentives relating to operational efficiency, environmental compliance, and the growth of our emission-reducing lines of business.

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).

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	5	This aligns with our annual budgeting and enterprise risk management activities.
Medium-term	5	10	This aligns with our strategic planning timelines and our capital investment decisions related to fleet vehicles.
Long-term	10	30	This aligns with our capital investment decisions related to large infrastructure such as material recovery facilities and landfills.

C2.1b

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

The company monitors and considers climate risks in terms of regulatory, reputational, and physical climate factors.

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

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

Annually

Time horizon(s) covered

Short-term

Medium-term

Long-term

Description of process

The Company's Enterprise Risk Management process involves systematic risk identification and mitigation covering the categories of strategic, financial, operational, and compliance risk. The ERM committee maintains a list of current risks and meets regularly to discuss risk mitigation actions and plans. Climate-related risks are evaluated and are included on the company's active ERM list if/when they meet the thresholds for inclusion.

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	We consider current regulations in our monitoring of climate-related risks. Our industry is subject to strict environmental regulations, which include climate-related requirements. An example is the Massachusetts Environmental Policy Act (MEPA) GHG Policy requirement that large development projects assess and mitigate greenhouse gas impacts.
Emerging regulation	Relevant, always included	We consider emerging regulations in our monitoring of climate-related risks. Our industry is likely to see more climate-related regulation in the coming years, as more states adopt more stringent programs. Examples include the possible replication of the above-described Massachusetts program in other states, Vermont's Global Warming Solutions Act which could substantially increase the price of diesel fuel in that state, and others.
Technology	Relevant, always included	We consider technologies in our monitoring of climate-related risks. New technologies that are less carbon-intensive (or are simply perceived to be less carbon-intensive) than the services we offer could disrupt our business. An example is the current pervasive belief that waste-to-energy incinerators are less carbon-intensive than modern landfills. This claim is not supported by recent data but is nonetheless believed by many and presents an ongoing business challenge. It is important that we understand the true climate impacts of emerging technologies, and work to adopt those technologies with a demonstrated climate benefit.
Legal	Relevant, always included	We consider legal factors in our monitoring of climate-related risks. We are beginning to monitor for climate-related litigation that would impact our business or like businesses. To date, we have not identified any specific relevant examples.
Market	Relevant, always included	We consider market factors in our monitoring of climate-related risks. Market factors related to climate may include demand for recycled commodities, demand for renewable energy, and customer waste reduction or zero waste goals. The impacts of these market factors may be mixed. For example, customer zero waste goals may reduce tonnage going into our landfills but increase demand for our recycling and waste reduction services.
Reputation	Relevant, always included	We consider reputation factors in our monitoring of climate-related risks. This includes the possibility that our operations, services, and products may not be perceived as carbon-reducing or consistent with waste reduction initiatives. For example, public confusion around the carbon benefits of our recycling and low emission landfill services could diminish our brand or impede our infrastructure permitting efforts.
Acute physical	Relevant, always included	We consider acute physical risks in our monitoring of climate-related risks. This includes potential impacts to our business continuity or operating costs related to increases in the frequency and severity of storms in our region. An example of this is Hurricane Irene in 2011 which washed out roads and bridges, impeding our immediate ability to service customers, but also produced clean-up debris which increased demand for our services after the storm.
Chronic physical	Relevant, always included	We consider chronic physical risks in our monitoring of climate-related risks. This includes potential impacts to our operating costs related to shifts in average temperature and precipitation patterns in our region. Examples of this include the need to design, construct, and maintain larger stormwater management systems, and the need to manage longer and more intense periods of wet season maintenance at our landfills.

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?

Please select

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

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Our business could be impacted by a wide variety of climate-related environmental laws or regulations. These might take the form of regulations requiring our facilities to meet emission reduction targets, mandates to use prescribed technologies, or carbon taxes on non-renewable sources of energy. One example is the Massachusetts requirement - during the MEPA environmental review process for major development projects - to quantify GHG emissions and identify measures to avoid, minimize, and mitigate such emissions.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Please select

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 manage this regulatory risk by proactively identifying and evaluating carbon-reducing and renewable energy technologies and voluntarily deploying them when feasible, in partnership with qualified developers. We seek opportunities within engineering designs and environmental programs to incorporate appropriate mitigation measures, energy reduction strategies, or emission controls.

Comment

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Please select

Risk type & Primary climate-related risk driver

Reputation	Increased stakeholder concern or negative stakeholder feedback
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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

Our business success relies upon the goodwill and trust of our customers, communities, and other stakeholders. Reduced stakeholder confidence in our ability and commitment to protect the environment could reduce demand for our products and services or prevent us from renewing or securing facility permits. Climate is an increasingly important consideration of our stakeholders in the Northeastern U.S., where many customers and communities rely on revenue from seasonal recreation such as skiing and tourism. For example, a growing number of customers may begin selecting competing services with better climate impacts (actual or perceived).

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Please select

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 manage this risk by measuring and reporting our emissions, investing in design and operating best practices (beyond regulatory requirements) to minimize emissions and maximize reductions, modernizing our fleet to reduce the carbon-intensity of our operations, and effectively communicating these measures with key stakeholder groups.

Comment

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Please select

Risk type & Primary climate-related risk driver

Please select

Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Our field operations are influenced by climate factors such as the size and frequency of rain events and the timing and frequency of freeze/thaw cycles. Shifts in these factors can result in engineering requirements for larger stormwater management systems, longer and more intense periods of wet season maintenance at landfills, and additional restrictions to seasonal construction.

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Please select

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

Our response to this risk is shaped by regulatory input and engineering best practices, and may include measures such as updating our facility designs and construction schedules to address potential impacts from climate factors, and reflecting these changes in our cost models and pricing.

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

Development and/or expansion of low emission goods and services

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

An increased focus on meeting carbon and sustainability goals could increase demand for our Resource Solutions (recycling, organics, reuse, waste reduction) services and our renewable energy production, including associated environmental attributes (RECs, RINs, and/or carbon credits).

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Please select

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

Driven by customer demand, we aim to grow our Resource Solutions lines of business - including recycling, organics, and customer solutions activities - with a goal to be recovering 2 million tons per year by 2030. We also aim to increase our renewable energy production, with a goal of doubling the Megawatt-hours we deliver to the grid, above our 2020 baseline, by 2030.

Comment

Identifier

Opp2

Where in the value chain does the opportunity occur?

Downstream

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

A combination of carbon legislation and circular economy goals could increase demand for recycled commodities and increase recycled commodity pricing.

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?

Please select

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 invest in infrastructure and process changes to improve the quality and value of our outbound recycled commodities. We invest time and resources in education around the carbon benefit and circular economy benefits of recycling. We advocate – directly and via trade organizations – for the strengthening of recycling markets through policy mechanisms such as minimum recycled content requirements.

Comment

Identifier

Opp3

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Development of climate adaptation, resilience and insurance risk solutions

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Casella is in the business of protecting public health and the environment, and our services are needed following extreme weather events. As the strength and severity of storm events increases, we anticipate increased demand for our cleanup and disposal services. Our responsibility is to plan and prepare in ways that will minimize storm-related disruption to our business so we can promptly and safely attend to the needs of our communities and customers.

Time horizon

Short-term

Likelihood

Very likely

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Please select

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**

To ensure that we can continue to meet the service needs of our customers and communities during major storm events, our facilities maintain priority response plans and natural disaster guidance in their Operations and Maintenance plans. This includes planning for rapid deployment of workers and equipment to affected areas as well as operational, communication, and safety best practices.

Comment**C3. Business Strategy****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****Publicly available climate transition plan**

<Not Applicable>

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

<Not Applicable>

Description of feedback mechanism

<Not Applicable>

Frequency of feedback collection

<Not Applicable>

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

<Not Applicable>

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	Please select	<Not Applicable>	<Not Applicable>

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	Please select	<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?

No, and we do not anticipate setting one in the next two years

Target ambition

<Not Applicable>

Year target was set

2020

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Base year

2010

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

869594

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

5946

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)

875539

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 (%)

40

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

525323.4

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

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

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)

596071

Does this target cover any land-related emissions?

Please select

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

79.7988439121501

Target status in reporting year

Underway

Please explain target coverage and identify any exclusions

Having already reduced our absolute GHG emissions by 45% between 2005 and 2010, we know that an additional 40% reduction in absolute emissions is ambitious. Combined with our Net Climate Benefit Factor, we believe that our climate strategy and targets align with a 1.5°C future, but our target is not a certified science based target.

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

To achieve our 2030 target, we intend to continue to focus on: 1) reducing landfill gas emissions from society's unrecycled waste, and 2) improving the fuel efficiency of our vehicle fleet through improved routing and new technology. We focus on initiatives such as improving gas collection efficiencies at our landfills and reducing the fuel intensity of our fleet.

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?

No other climate-related targets

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.

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 (The EPA Waste Reduction Model (WARM) tool is used to quantify the emission avoidance associated with recycling and waste reduction services.)

Type of product(s) or service(s)

Other	Other, please specify (Circular economy solutions for Emission Avoidance)
-------	---

Description of product(s) or service(s)

Resource Solutions - Casella's recycling, organics recovery, and resource management consulting services enable customers and communities to achieve their waste and recycling goals and reduce their Scope 3 carbon footprint.

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 (EPA Waste Reduction Model (WARM) tool)

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

Please select

Functional unit used

Reference product/service or baseline scenario used

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

Please select

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

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

Level of aggregation

Group of products or services

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

Other, please specify (Data reported to the EPA through the 40 CFR Part 98 GHG Reporting program documents the emission performance of our regulated disposal facilities)

Type of product(s) or service(s)

Other	Other, please specify (Emission Avoidance)
-------	--

Description of product(s) or service(s)

Low Emission Landfill services - Our modern landfills employ landfill gas collection and capture systems and often have a lower carbon footprint than competing disposal technologies, thus helping the customers who direct their waste to these facilities reduce their Scope 3 carbon footprint. Although it is not reflected in the 40 CFR Part 98 methodology listed below, landfills also have a carbon sequestration benefit.

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

Please select

Methodology used to calculate avoided emissions

<Not Applicable>

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

<Not Applicable>

Functional unit used

<Not Applicable>

Reference product/service or baseline scenario used

<Not Applicable>

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

<Not Applicable>

Explain your calculation of avoided emissions, including any assumptions

<Not Applicable>

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

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?

No

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

<Not Applicable>

Details of structural change(s), including completion dates

<Not Applicable>

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	No	<Not Applicable>

C5.2

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

Scope 1

Base year start

January 1 2010

Base year end

December 31 2010

Base year emissions (metric tons CO2e)

869594

Comment

This figure has been restated from prior reports to reflect a database calculation error in the conversion from CH4 to CO2e.

Scope 2 (location-based)

Base year start

January 1 2010

Base year end

December 31 2010

Base year emissions (metric tons CO2e)

5946

Comment

Scope 2 (market-based)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 1: Purchased goods and services

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 2: Capital goods

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 6: Business travel

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 7: Employee commuting

Base year start

Base year end

Base year emissions (metric tons CO2e)

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

Base year end

Base year emissions (metric tons CO2e)

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.

- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- US EPA Center for Corporate Climate Leadership: Indirect Emissions From Purchased Electricity
- US EPA Center for Corporate Climate Leadership: Direct Emissions from Stationary Combustion Sources
- US EPA Center for Corporate Climate Leadership: Direct Emissions from Mobile Combustion Sources
- US EPA Mandatory Greenhouse Gas Reporting Rule
- US EPA Emissions & Generation Resource Integrated Database (eGRID)

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)

590516

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

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 have no operations where we are able to access electricity supplier emission factors or residual emissions factors and are unable to report 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

5555

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

<Not Applicable>

End date

<Not Applicable>

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?

Please select

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)

103973

Emissions calculation methodology

Spend-based method

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

Please explain

These emissions were calculated using the GHG Protocol Quantis Scope 3 Evaluator tool, which uses actual corporate expenditure data in defined categories of goods and services and applies standard emission factors to estimate Scope 3 emissions.

Capital goods

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

59882

Emissions calculation methodology

Average spend-based method

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

Please explain

These emissions were calculated using the GHG Protocol Quantis Scope 3 Evaluator tool, which uses actual corporate expenditure data in defined categories of goods and services and applies standard emission factors to estimate Scope 3 emissions.

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

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

27124

Emissions calculation methodology

Fuel-based method

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

Please explain

These emissions were calculated using fuel and energy consumption data (volume by fuel type).

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

110325

Emissions calculation methodology

Spend-based method

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

Please explain

These emissions were calculated using the GHG Protocol Quantis Scope 3 Evaluator tool, which uses actual corporate expenditure data in defined categories of goods and services and applies standard emission factors to estimate Scope 3 emissions.

Waste generated in operations

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

As per guidance from the National Waste & Recycling Association this is not relevant to Casella. As a provider of waste management services, the waste generated in our operations is generally managed in our own facilities, so these emissions are already captured in Scope 1 of our inventory. Accounting for them here would constitute double counting. In some instances, Casella pays to dispose of customers' waste in third party disposal facilities. These emissions are excluded from the company's Scope 3 reporting, in accordance with the NWRA document titled "Greenhouse gas reporting, Third-party Disposal, Industry Consensus Approach."

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

1079

Emissions calculation methodology

Spend-based method

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

Please explain

These emissions were calculated using the GHG Protocol Quantis Scope 3 Evaluator tool, which uses actual corporate expenditure data in defined categories of goods and services and applies standard emission factors to estimate Scope 3 emissions.

Employee commuting

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

6290

Emissions calculation methodology

Other, please specify

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

Please explain

The emissions were calculated using the GHG Protocol Quantis Scope 3 Evaluator tool, which uses the total number of Casella employees and applies an emission factor representing average employee commuting emissions to estimate Scope 3 emissions.

Upstream leased assets

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

Emissions from leased assets were included in Scope 1 and 2 emissions.

Downstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

14844

Emissions calculation methodology

Distance-based method

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

Please explain

Emissions from leased assets were estimated based on outbound shipping data and distances to receiving facilities.

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

Casella does not purchase intermediate products for sold products, but rather collects waste materials for recycling.

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

Casella does not sell consumer products. We recover materials from society's waste stream and return them to the economy. Models such as the EPA Waste Reduction Model (WARM) indicate that this work has a significant climate benefit (at an average rate of 2.85 metric tons of CO2e avoided per ton of mixed recyclables recovered), however this benefit is not captured here under existing Scope 3 guidance. We instead track this through our Net Climate Benefit Factor, discussed in Section 9 of this report.

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

Casella does not sell consumer products. We recover materials from society's waste stream and return them to the economy. Models such as the U.S. EPA Waste Reduction Model (WARM) indicate that this work has a significant climate benefit (at an average rate of 2.85 metric tons of CO2e avoided per ton of mixed recyclables recovered), however this benefit is not captured here under existing Scope 3 guidance. We instead track this through our Net Climate Benefit Factor, discussed in Section 9 of this report.

Downstream leased assets

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

An emissions figure is not calculated for this category as Casella leases minimum downstream assets in the course of normal operations. This assessment will be periodically reviewed.

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

Casella does not operate any franchises.

Investments

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

Casella does not have any investment activities.

Other (upstream)

Evaluation status

Not evaluated

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

Other (downstream)

Evaluation status

Not evaluated

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

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	191710	This figure includes the biogenic CO2 generated from the combustion of bio-methane in Casella-operated flares and engines. Casella facilities also sends bio-methane to 3rd party users to produce energy. This yields an estimated 73,893 of Scope 3 biogenic CO2; this amount is not included in the figure reported on this row.

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

0.00055

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

596072

Metric denominator

unit total revenue

Metric denominator: Unit total

1085100000

Scope 2 figure used

Location-based

% change from previous year

11.4

Direction of change

Decreased

Reason(s) for change

Unidentified

Please explain

Intensity figure

0.0877

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

596072

Metric denominator

Other, please specify (metric tons of materials managed)

Metric denominator: Unit total

6800000

Scope 2 figure used

Location-based

% change from previous year

4.6

Direction of change

Decreased

Reason(s) for change

Unidentified

Please explain

C7. Emissions breakdowns

C7.1

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

Yes

C7.1a

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

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	103633	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	485617	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	1294	IPCC Fourth Assessment Report (AR4 - 100 year)

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)
United States of America	590516

C7.3

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

By activity

C7.3c

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

Activity	Scope 1 emissions (metric tons CO2e)
Landfill Fugitive Emissions	485039
Mobile Combustion Emissions	100279
Stationary Combustion Emissions	5198

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)
United States of America	5555	

C7.6

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

By activity

C7.6c

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

Activity	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Electricity Consumption Emissions	5555	

C7.7

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

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?

Please select

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)	Please select
Consumption of purchased or acquired electricity	Please select
Consumption of purchased or acquired heat	Please select
Consumption of purchased or acquired steam	Please select
Consumption of purchased or acquired cooling	Please select
Generation of electricity, heat, steam, or cooling	Please select

C8.2g

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

C9. Additional metrics

C9.1

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

Description

Other, please specify (Net Climate Benefit Factor)

Metric value

5.4

Metric numerator

3243092

Metric denominator (intensity metric only)

596071

% change from previous year

Direction of change

<Not Applicable>

Please explain

We calculate the Net Climate Benefit Factor using EPA factors and tools. The calculation adds the emission benefits of our recycling, renewable energy, and sequestration activities and then divides this number by our total Scope 1 and 2 emissions.

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

Casella Waste 2022 ESG Verification.pdf

Page/ section reference

Pages 1-3

Relevant standard

ISO14064-3

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 location-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

Page/ section reference

Pages 1-3

Relevant standard

ISO14064-3

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?

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, and we do not anticipate being regulated in the next three years

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, and we do not currently 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 suppliers

Yes, our customers/clients

C12.1a

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

C12.1b

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

C12.2

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

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

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

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>

C12.4

(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).

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	Please select	

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	Please select	<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	Please select	<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

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

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?

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	Please select	<Not Applicable>

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	Please select	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
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C16. Signoff

C-FI

(C-FI) 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	Chairman & Chief Executive Officer	Chief Executive Officer (CEO)

SC. Supply chain module

SC0.0

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

SC0.1

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

	Annual Revenue
Row 1	

SC1.1

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

SC1.2

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

SC1.3

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

Allocation challenges	Please explain what would help you overcome these challenges
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SC1.4

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

SC2.1

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

SC2.2

(SC2.2) Have requests or initiatives by CDP Supply Chain members prompted your organization to take organizational-level emissions reduction initiatives?

SC4.1

(SC4.1) Are you providing product level data for your organization's goods or services?

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