

C0. Introduction

C0.1

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

Minerva Foods is the leading beef exporter in South America and has adjacent operations in animal protein processing and sales, and live cattle exports. A Brazilian-based, publicly traded corporation, Minerva Foods has a global presence, exporting to more than 100 countries on five continents. At the end of 2021, the second year of the new coronavirus pandemic, Minerva Foods' net revenue was BRL 26.9 billion.

The Company sources, processes and sells animal protein through an integrated, geographically diversified and flexible business platform comprising 25 beef slaughter plants in Brazil, Argentina, Colombia, Paraguay and Uruguay. In 2021, Minerva Foods expanded into Oceania with the acquisition of two sheep slaughter plants in Australia.

Completing its assets are 14 distribution centers in South America (9 in Brazil, 2 in Chile, 1 in Argentina, 1 in Colombia and 1 in Paraguay), 16 sales offices in key markets (Algeria, Australia, Chile, China, Dubai, Egypt, United States, Hong Kong, England, Italy, Lebanon, New Zealand, Russia, Singapore and Taiwan), one meat processing plant (Minerva Foods' Fine Foods) in Brazil and two operating under the Swift brand in Argentina.

Starting a new chapter in its 30-year history, in 2021 the Company refreshed its brand to reflect the evolution that has made Minerva Foods a modern, disruptive and innovative business that is committed to creating a sustainable food future for our planet. Each site now displays the renovated Minerva Foods brand. The Company has a 23% market share in South America with a workforce of 21,215 employees and in 2021 produced and processed 1,001 million metric tons of beef across all regions

As part of its business model, the Company supports the development of more than 21,000 cattle suppliers to meet the requirements of mature markets on issues such as traceability and environmental, labor and land-use compliance. The Company's sustainability/ESG agenda is composed of three pillars: Dedication to the Planet, Prosperity of Our People and Product Quality and Respect for Life. In 2021, focusing on the environmental pillar 'Dedication to the Planet', the Company launched its Commitment to Sustainability.

Minerva Foods is deeply committed to sustainability in such a way that this value is embedded in its institutional culture. In April 2021, Minerva Foods unveiled a number of goals and targets relating to climate change, a focus area in the Company's sustainability strategy.

These goals cover the Company's own operations and the broader value chain and aim to achieve net zero emissions by 2035—15 years earlier than called for in the Paris Agreement—among other medium-term ambitions.

More information about Minerva Foods is available in the 2021 Sustainability Report, on the institutional website and on the investor relations website

C0.2

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

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for
Reporting year	January 1 2021	December 31 2021	No	<Not Applicable>

C0.3

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

- Argentina
- Brazil
- Chile
- Colombia
- Paraguay
- Uruguay

C0.4

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

BRL

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

C-AC0.6/C-FB0.6/C-PF0.6

(C-AC0.6/C-FB0.6/C-PF0.6) Are emissions from agricultural/forestry, processing/manufacturing, distribution activities or emissions from the consumption of your products – whether in your direct operations or in other parts of your value chain – relevant to your current CDP climate change disclosure?

	Relevance
Agriculture/Forestry	Both direct operations and elsewhere in the value chain [Processing/manufacturing/Distribution only]
Processing/Manufacturing	Direct operations only [Processing/manufacturing/Distribution only]
Distribution	Both direct operations and elsewhere in the value chain [Processing/manufacturing/Distribution only]
Consumption	No

C-AC0.6g/C-FB0.6g/C-PF0.6g

(C-AC0.6g/C-FB0.6g/C-PF0.6g) Why are emissions from the consumption of your products not relevant to your current CDP climate change disclosure?

Row 1

Primary reason

Evaluated but judged to be unimportant

Please explain

Product consumption emissions are not considered relevant since the impact is minimal due to the nature of our products (fresh beef and its derivatives) considering the emissions mapped in Minerva's scopes 1, 2 and 3. For the Brazilian operations, the residues are treated through reverse logistics established by Law No. 12,305, of August 2, 2010, which institutes the National Solid Waste Policy and determines the mandatory recycling of 22% of the packaging made available to Minerva's customers. Due to the high complexity of tracking the waste generated directly by the consumption of its products, Minerva Foods uses recycling credits to carry out reverse logistics for the same types of packages consumed.

C-AC0.7/C-FB0.7/C-PF0.7

(C-AC0.7/C-FB0.7/C-PF0.7) Which agricultural commodity(ies) that your organization produces and/or sources are the most significant to your business by revenue? Select up to five.

Agricultural commodity

Cattle products

% of revenue dependent on this agricultural commodity

More than 80%

Produced or sourced

Sourced

Please explain

The Company sources, processes and sells animal protein through an integrated, geographically diversified and flexible business platform comprising 25 beef slaughter plants in Brazil, Argentina, Colombia, Paraguay and Uruguay. In 2021, Minerva Foods expanded into Oceania with the acquisition of two sheep slaughter plants in Australia. Completing its assets are 14 distribution centers in South America (9 in Brazil, 2 in Chile, 1 in Argentina, 1 in Colombia and 1 in Paraguay), 16 sales offices in key markets (Algeria, Australia, Chile, China, Dubai, Egypt, United States, Hong Kong, England, Italy, Lebanon, New Zealand, Russia, Singapore and Taiwan), one meat processing plant (Minerva Foods' Fine Foods) in Brazil and two operating under the Swift brand in Argentina.

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	BEEF3 - Brazilian Stock Exchange (B3)

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(s)	Please explain
Board-level committee	The Finance and Risk Committee assists the Board of Directors in monitoring and evaluating the effectiveness of the financial policies applied by the Company, in the fulfillment of its responsibilities, including issuing recommendations to the Board of Directors and Executive body on risks and mitigation strategies, in order to check greater efficiency and quality in the decisions taken by the Board of Directors, as well as in monitoring and evaluating the effectiveness of the policies applied by the Company, including the Risk Management Policy. In addition, the Committee also assists in the implementation of mitigation measures for risk factors to which the Company is exposed, as well as in the analysis of the Brazilian and world economic situation, with its potential effects on the Company's financial, operational and strategic position. The Finance and Risk Committee, together with the Company's Board of Directors, must constantly analyze the risks to which the Company is exposed and that may adversely affect its business, financial situation and the results of its operations, monitoring changes in the macroeconomic and sectorial scenario that may influence its activities, providing, whenever necessary, all information regarding the limitation of the Company's exposure to the risks to which it is submitted. The committee is composed of the CEO, CFO and 5 more committee members
Board-level committee	The purpose of the Strategic and Investment Committee is to analyze and issue recommendations for proposed strategic and business plans, as well as other guidelines related to the Company's strategies to be submitted to the Board of Directors. In addition, the Strategic and Investment Committee is responsible for identifying and analyzing possible business opportunities, as well as debating other issues that the Board of Directors deems pertinent, with a view to achieving greater efficiency and quality in the decisions taken by the Board of Directors. The committee is composed of the CEO, CFO and 5 more committee members
Other, please specify (Innovation and Sustainability Advisory Board)	The Innovation and Sustainability Advisory Board is a non-statutory collegiate advisory body, linked to the Company's Executive Board, responsible for monitoring and discussing practices related to socio-environmental sustainability, corporate governance and innovation, in order to provide greater transparency, efficiency and assertiveness of Minerva Foods initiatives. The duties of the Advisory Board are based on advising the Executive Board on the analysis of initiatives related to socio-environmental sustainability, corporate governance, research, technological trends and innovations, addressing and suggesting ways to deal with these issues, within the Executive Board's duties and according to best practices, of matters that represent risks to the environment or human rights that may cause considerable impacts on the business, results, relationship with stakeholders and the Company's image, as well as to propose to the Company's Board of Directors and, when approved, monitor the preparation and the implementation of policies, programs, strategies and actions related to social and environmental sustainability, corporate governance, research, technological trends and innovations, evaluating their effectiveness in achieving pre-defined objectives, among other objectives. This board meets at least once a month and is composed of the CEO, CFO, CTO, HR Director, Legal Director, Institutional Relations Director, Sustainability Director and 2 independent members.
Other, please specify (Sustainability Commission)	The Sustainability Commission aims to drive the sustainability agenda across the organization and assist in decision-making related to environmental, social responsibility and animal welfare issues. In addition, it also assesses the risks and opportunities arising from climate change and splits this assessment into multidisciplinary work groups that determine and implement actions aimed at the topic. The committee also monitors the evolution of these actions through absolute and relative indicators. The Committee is composed by CEO, CFO, CHRO, CTO, Institutional Relations Director, Legal Director, Sustainability Director and Sustainability Management. As an example of climate-related decision taken by this Committee was the publicly announcement of Minerva Foods' commitment to the sustainability agenda in April 2021. The core objective in the commitment to sustainability is to drive Minerva Foods transition to a low-carbon economy, transforming it into a carbon-neutral company (net zero emissions) by 2035, 15 years ahead of the Paris Agreement. To achieve this, the Company will focus on three major areas to achieve net zero emissions by 2035. The first is related to the environmental efficiency of its operations, the second aims to combat illegal deforestation, and the third is the Remove Program, which provides support to the production chain in the adoption of low carbon emission practices supporting rural producers in the adoption of practices that sequester and store carbon, protect biodiversity, and increase resilience. With a growing demand for Carbon Credits, aligned with the future Brazilian Carbon Credit Market, and with the possibility of helping the companies to reach their goals of neutralizing greenhouse gas emissions through carbon offsetting, in a manner that is transparent, reliable, and sustainable, MyCarbon was created in 2021, a subsidiary of Minerva Foods.
Other, please specify (ESG Communication Commission)	In order to improve communication between Minerva Foods areas that make up the environmental, social and governance pillar, the ESG Communication Commission was created, in which the areas involved present the relevant projects in the current month, such as projects related to emissions greenhouse gases and climate change adaptation and mitigation. The Commission meets monthly, and it's composed of the areas of Sustainability, Communication, Environment, Occupational Health and Safety, Human Resources, Quality and Animal Welfare. In addition, the Chief Transformation Officer, the Legal Director and an external corporate communication consultancy also participate.
Chief Executive Officer (CEO)	Minerva Foods' operating strategy is based on the highest standards of excellence in national and international corporate governance. Minerva Foods is committed to applying sustainable practices and generating value for the entire production chain. The CEO of the Company acts on resolving and making important decisions related to climate-related issues such as the pioneer supply chain monitoring system beyond Brazilian border, managing the organization's global resources and operations and acting as the central point of communication between the operational and the Board of Directors.
Chief Operating Officer (COO)	The COO acts as direct support from the CEO in order to implement the Company's strategic plan, directing the directors under its management to comply with the Policies established by the Company, as well as its regulations and International Finance Corporation guidelines, such as the one regarding the sustainable purchase of cattle. The COO is responsible for identifying priority demands and referring them to the CEO's considerations, such as those arising from socio-environmental criteria that permeate climate issues, in addition to ensuring that industrial managers are complying with other relevant guidelines and strategies for Minerva Foods.
Chief Sustainability Officer (CSO)	To operationalize the management of risks and opportunities worked on by the governance bodies, the Company has a Sustainability Director dedicated to the topic. The Sustainability Director reports hierarchically to the Institutional Relations Director and aims to adopt mechanisms for managing risks and opportunities in sustainability, including the climate issue, through the management of the Company's sustainability department. It is the responsibility of the Sustainability Director to operationalize the decisions taken by the members of the Director and Board of Directors in relation to the best climate practices through its employees in solutions that consider the establishment of internal actions, such as the preparation of the Greenhouse Gases Inventory, disclosed since 2015 as a management tool that guides improvements in environmental and energy efficiency systems, monitoring and traceability of the value chain for the certification of best environmental practices, as well as the engagement and promotion of technologies to support our ranchers in the transition to a low carbon operation.
Other, please specify (Industrial Director)	Minerva Foods has a corporate environment team and supervisors allocated to each industrial plant responsible for the management of atmospheric emissions, water use, effluent treatment, waste disposal and energy consumption aiming to optimize operations environmentally, in addition to training factory employees on these topics, thus directly contributing to GHG emissions for scopes 1, 2 and 3. Investments in improving environmental indicators are continuous, in order to increase the Company's performance in the environmental area, thus, the Industrial Director is responsible for approving, managing and encouraging projects that can lead to a reduction in the emission of greenhouse gases.

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	<p>Reviewing and guiding strategy</p> <p>Reviewing and guiding major plans of action</p> <p>Reviewing and guiding risk management policies</p> <p>Reviewing and guiding annual budgets</p> <p>Reviewing and guiding business plans</p> <p>Monitoring and overseeing progress against goals and targets for addressing climate-related issues</p>	<Not Applicable>	<p>Minerva Foods' Board of Directors is the main guide for guiding the Company towards the best corporate sustainability practices in order to generate long-term value for all its stakeholders. Among the Board's attributions, its responsibility as the main promoter of Minerva Foods' institutional values stands out, such as the sustainability that permeates all our practices, processes, procedures and businesses, and the responsibility to decide the strategic paths that should be followed by the Company, being the bridge between the executive board and our shareholders. Additionally, Minerva Foods has a Finance and Risk Committee, linked to the Board of Directors, which reports periodically and meets at least once a quarter. The Committee assists the Board in fulfilling its responsibilities, including issuing recommendations on risks and mitigation strategies, with the objective of providing greater efficiency and quality to the decisions taken by the Board of Directors, as well as in monitoring and evaluating the effectiveness of policies applied by the Company. In addition, the Committee also assists in the implementation of mitigation measures for risk factors to which the Company is exposed, climate change included, as well as in the analysis of the Brazilian and world economic situation, with its potential effects on the Company's financial, operational and strategic position. The Finance and Risk Committee, together with the Company's Board of Directors, must constantly analyze the risks to which the Company is exposed and that may affect its business, monitoring changes in the macroeconomic and sectorial scenario that may influence its activities, in order to assess and monitor the Company's integrated risk map to, whenever necessary, propose improvements in the strategic, operational, financial and compliance risk mitigation plans. Moreover, the Strategic and Investment Committee, which is composed of the CEO, CFO, members of the executive board and directors, aims to analyze and issue recommendations for the proposed strategic and business plans, as well as other guidelines and orientations related to Company's strategies to be submitted to the Board of Directors. Minerva Foods also has a Sustainability and Innovation Advisory Board to assess climate risks and opportunities. This Board is a non-statutory collegiate advisory body that monitors and discusses practices related to socio-environmental sustainability, corporate governance and innovation, in order to provide greater transparency, efficiency and assertiveness in the Company's initiatives. Its composition includes an invited independent member, as well as the Company's CEO and CFO and two independent members.</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	The criteria used by the company assess competence of board member(s) on climate-related issues are related to professional expertise and academic experience in agricultural issues being advisory to the board of Agribusiness Companies and consultant.	<Not Applicable>	<Not Applicable>

C1.2

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

Name of the position(s) and/or committee(s)	Reporting line	Responsibility	Coverage of responsibility	Frequency of reporting to the board on climate-related issues
Other committee, please specify (Finance and Risk Committee)	<Not Applicable>	Assessing climate-related risks and opportunities	<Not Applicable>	Annually
Other committee, please specify (Strategic and Investment Committee)	<Not Applicable>	Assessing climate-related risks and opportunities	<Not Applicable>	Annually
Other committee, please specify (Innovation and Sustainability Advisory Board)	<Not Applicable>	Both assessing and managing climate-related risks and opportunities	<Not Applicable>	Less frequently than annually
Other committee, please specify (Sustainability Commission)	<Not Applicable>	Both assessing and managing climate-related risks and opportunities	<Not Applicable>	Less frequently than annually
Other committee, please specify (ESG Communication Commission)	<Not Applicable>	Other, please specify (Monitors and assesses the executive management)	<Not Applicable>	Less frequently than annually
Other C-Suite Officer, please specify (CEO, COO, CFO, CTO)	<Not Applicable>	Both assessing and managing climate-related risks and opportunities	<Not Applicable>	Less frequently than annually
Other C-Suite Officer, please specify (Industrial Director)	<Not Applicable>	Other, please specify (monitors the implementation of the climate agenda)	<Not Applicable>	Less frequently than annually
Environment/ Sustainability manager	<Not Applicable>	Other, please specify (runs the climate agenda)	<Not Applicable>	Less frequently than annually

C1.2a

(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored (do not include the names of individuals).

The Finance and Risk and Investment and Strategy Committees are an advisory body, linked to the Company’s Board of Directors, which reports periodically, acting independently from the Company’s Executive Board and meets at least once a quarter. The Sustainability and Innovation Advisory Board is a non-statutory collegiate advisory body, linked to the Company’s Board of Directors, responsible for monitoring and discussing practices related to socio-environmental sustainability, corporate governance and innovation, in order to provide greater transparency, efficiency and assertiveness of Minerva Foods initiatives. The ESG Communication and Sustainability Commissions are linked to the Executive Board, responsible for assessing risks and opportunities and monitoring the management of the climate agenda plans and procedures in the operation. The Sustainability and Industrial Management are responsible for implementing and monitoring the execution of the sustainability and environment teams to fulfill the plans and goals established in the Commitment to Sustainability.

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	The Company operates in accordance with the International Finance Corporation Performance Standards which guides and monitors sustainability actions among all supply chain and industrial processes. We are the only Latin American beef company to obtain this investment from the IFC, aiming to continually perform and comply with their sustainability and value generation guidelines for our entire production chain. Sustainability, as a corporate value for Minerva Foods, has three pillars: ‘Dedication to the Planet’, ‘Prosperity of Our People’ and ‘Product Quality and Respect for Life’. In 2021, Minerva Foods announced its Commitment to Sustainability, focusing on the ‘Dedication to the Planet’ pillar and combating climate change with ambitious targets for the Company and its value chain until 2035.

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	Type of incentive	Activity incentivized	Comment
Other, please specify (Plant’s managers and employees)	Monetary reward	Energy reduction project Energy reduction target Efficiency project	The operational efficiency programs adopted by Minerva Foods in recent years have shown excellent results and have contributed to the company meeting the growing market demand with agility. The “Atitude Campeã” program aims to promote integration, the exchange of good practices and the engagement of employees in the continuous improvement of processes, seeking more operational efficiency, electricity reduction, water consumption, waste water treatment, environmental compliance, recovery by-products in a wastewater treatment plant, energy efficiency, consumption of solid waste) and growth of the company and its employees. “Atitude Campeã” program mobilizes employees of industrial units in a healthy competition (with monetary bonus) in measuring key indicators, such as maintenance and energy matrix indicators, directly linked to the Company’s consumption, impacting the management of greenhouse gas emissions. This analysis is done monthly, scoring the best units and sectors, which are awarded by its better performance. For the 2021 Program, the methodology used to assess the indicators was revised, bringing new guidelines and assessment items. The monetary bonus is proportional to the podium position. The first place receives bonus of 100% of monthly salary, the second position receives bonus of 50% of monthly salary and the third 25% of monthly salary. Minerva Foods also has the CMQ Program – “Círculo Minerva’ de Qualidade”, which encourages employees of industrial units to form volunteer groups to identify improvements in operational efficiency, work safety, eco-efficiency, among others. Participants receive methodological training to support the structuring of projects and meet periodically for discussion and planning. The CMQ was implemented in all operation units during 2020 and 2021. This program gift the employees with symbolic prizes, such as special lunch, bags, bottles, voucher for restaurants, etc.
All employees	Non-monetary reward	Emissions reduction project Emissions reduction target Energy reduction project Energy reduction target Efficiency project Efficiency target	The Company operates in accordance with the International Finance Corporation Performance Standards which guides and monitors sustainability actions among all supply chain and industrial processes. We are the only Latin American beef company to obtain this investment from the IFC, aiming to continually perform and comply with their sustainability and value generation guidelines for our entire production chain. Upon the pillar Dedication to the Planet, the Company’s focus is on acting now to prevent the worst effects of climate change, while supporting rural producers in the adoption of practices that sequester and store carbon, protect biodiversity, and increase resilience. To launch its efforts, Minerva Foods announced its Commitment to Sustainability back in 2021, detailing initiatives focused on three key areas to achieve net zero emissions by 2035. The first is related to the environmental efficiency of its operations, the second aims to combat illegal deforestation, and the third is the Renove Program, which provides support to the production chain in the adoption of low carbon emission practices. Minerva Foods is committed to combat climate change and protect ecosystems. To this end, the Company will reduce the intensity of its scope 1 and 2 emissions by 30% by 2030, and is committed to fully neutralize its emissions by 2035, in addition to maintain zero net emissions in the energy matrix of its operations (scope 2) , target reached in 2020 with 100% of the energy coming from renewable sources. For this, Minerva Foods proposes to analyze decarbonization scenarios and future emissions trajectory, expand investments in renewable energy, such as the solar power plant at the Bucaramanga unit, in Colombia, and invest in technologies to increase treatment efficiency of effluents and atmospheric emissions. In 2021 Minerva Foods carried out an assessment to inform the development of a decarbonization roadmap, with support from specialized consultants. The scope 1 emissions projects to be implemented in the near future include wastewater treatment plant upgrades and boiler fuel retrofits in Argentina and Colombia. Emissions mitigation is the primary focus of these efforts, and offsets are considered only for emissions that cannot be eliminated.
All employees	Non-monetary reward	Behavior change related indicator Supply chain engagement	Cattle ranching is essential to the world’s economy and food, in addition to contributing to the development of local communities. Minerva Foods believes it is possible to keep meat production aligned with the goals of reducing environmental impacts, thereby developing initiatives that involve the entire production chain and aim to mitigate environmental impact. For this reason, in 2021, Minerva Foods created the Renove Program. The purpose is to promote engagement and joint action with rural producers in the adoption of good agricultural and cattle ranching practices that increase productivity and income, in addition to benefiting the environment through low carbon emissions and sustainable intensification of cattle ranching. The Renove Program is based on three key components for its effectiveness: Training, Green Finance, and Technical and Institutional Partnerships. Training and technical assistance are essential to ensure the proper establishment and maintenance of best practices over time. The Program supports partnerships and rural extension activities, technology transfer, and training so that rural technicians and ranchers have the necessary tools and knowledge. On the Green Finance front, the Renove Program works with financial institutions to enable credit lines and funds that recognize the performance of partner cattle ranchers. The access to differentiated rural credit for cattle ranchers engaged in sustainable cattle farming is fundamental to make the wide implementation of good practices feasible. Finally, the Renove Program works together with renowned institutions in South America including Embrapa (Brazilian Agricultural Research Corporation), CIAT and Imaflorea (Institute for Forest and Agricultural Management

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	The Company considers a short term of 5 years and has included targets in its commitment to meet this term. Between them: 1. Environmental efficiency in operations - Net zero emissions in its electricity mix (scope 2) - 100% of electricity coming from renewable sources – target already achieved 2. Combating illegal deforestation - Expansion of geospatial monitoring to 100% of direct supplier farms, as per: a) Paraguay (2021) (target achieved) b) Colombia (2023); and c) Uruguay (2025). - Development and implementation of a program for monitoring indirect supplier farms: a) Integrate Visipec into the geospatial monitoring system for the Amazon by December 2021 (target completed four months in advance). b) Implement a smartphone app for verification of indirect suppliers in partnership with Niceplanet Geotechnology, with deployment in Brazil by December 2021 (target achieved)
Medium-term	5	10	The Company considers the medium term to be between 5 and 10 years and has included targets in its commitment to meet this period. Between them: 1. Environmental efficiency in operations - Reduction of scope 1 and 2 emissions intensity by 30% by 2030. 2. Combating illegal deforestation - Expansion of geospatial monitoring to 100% of direct supplier farms, as per: a) Argentina (2030) - Develop and implement a program for monitoring indirect suppliers for all South American countries in which the Company operates. 3. Development of the Renew program - 50% of cattle supplying farms.
Long-term	10	15	The Company considers the long term to be between 10 and 15 years and in this interval, it has inserted its ambition to achieve zero net emissions

C2.1b

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

Minerva Foods sees risk management as an essential tool for ensuring operating efficiency, employee health and safety, social and environmental compliance, high standards of quality and food safety, and business resilience and endurance. Risk management directly involves the Board of Directors, with advisory support from the Finance & Risk Committee, a non-statutory governance body that evaluates scenarios, assesses the risks to which the Company is exposed, and issues recommendations on critical reputational, integrity and business continuity matters.

The Company manages a wide range of industry-relevant risks, including financial risks, credit risks, and risks related to international transactions and exports, economic downturns, derivative financial instruments, and interest-rate fluctuation. The scope of risk management also includes risks related to social, environmental and climate issues, customers, and sanitary barriers.

A significant financial or strategic impacts that could significantly affect Minerva's business could be those in which the Company's operating margins could be negatively affected by fluctuations in raw material costs and the selling prices of its products.

For instance, Minerva Foods, as the export leader in South America, has a high risk of losing foreign markets. Considering the European Union as one of the most demanding markets in terms of sustainability requirements, the loss of these sales would lead to a reduction of approximately 8% in the Company's revenue, that is, approximately 1.5 billion reais. This is one of the examples that defines substantial financial impact for the Company.

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

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term
Medium-term

Description of process

Minerva Foods sees risk management as an essential tool for ensuring operating efficiency, employee health and safety, social and environmental compliance, high standards of quality and food safety, and business resilience and endurance. Risk management directly involves the Board of Directors, with advisory support from the Finance & Risk Committee, a non-statutory governance body that evaluates scenarios, assesses the risks to which the Company is exposed, and issues recommendations on critical reputational, integrity and business continuity matters. The Company manages a wide range of industry-relevant risks, including financial risks, credit risks, and risks related to international transactions and exports, economic downturns, derivative financial instruments, and interest-rate fluctuation. The scope of risk management also includes risks related to social, environmental and climate issues, customers, and sanitary barriers. In the process of identifying risks and opportunities to climate change, through national and international climate forecasting models, the company assesses potential direct impacts, which may affect its costs and business continuity, and indirect impacts, which may affect the production chain. In financial and market risks, the Company invests in the combination of different instruments for analyzing and monitoring variables, combining technological resources, management rituals and the performance of different areas. The Company's operating margins depend on the purchase price of raw materials (such as the purchase of cattle) and the sale price of its products. Such prices can vary significantly because of a number of factors. In relation to raw material, cattle represent approximately 80% of the cost of products sold by the Company. The supply and price of this raw material depend on factors over which the Company has little or no control, including the supply and demand of animals, unusual weather conditions resulting from climate change (such as dry periods in months normally characterized by good volume of rain), disease outbreaks such as foot-and-mouth disease and any outbreaks of new diseases, costs related to supplementation, economic conditions, among others. The selling prices of its products can vary significantly because of the demand for beef in the domestic and export markets, as well as in the market for other protein products, including poultry and pork, which may be impacted due to the mitigation and adaptation of climate change that could impact the availability and quality of raw materials and entry into new markets. At the center is the Beef Desk, a meeting that assesses market forces, effects on input and product price curves and changes in commodities under the coordination of the Market Intelligence team. In addition, within the scope of risk management, there are choice meetings, weekly meetings for decisions on allocation and dismantling of raw materials, and the Pricing area, which manages prices based on the analysis of various aspects of the market. These instruments underwent important updates since 2020 with the Production Allocation Optimization project – conducted by the Innovation area based on data science tools. Among the first, for example, is the increase in operating costs due to the lack of rain and the consequent reduction in the supply of cattle. To mitigate the financial impact of this risk, the Company has a defined strategy for two possible fronts of action: the acquisition of fewer animals, but with greater weight (ending in feedlots), and/or the acquisition of animals that meet the criteria of more profitable markets and higher value-added products such as our Estância 92 and Angus lines (younger animals, with a good finish, with industrial crossbreeding and certification). Cattle purchases could also be directed to other locations due to the geographic diversity of the Company's operations.

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	Due to the nature and complexity of our business, the Company is subject to strict environmental laws such as those established by the National Environment Council (CONAMA) and IBAMA, which determine parameters for atmospheric emissions, deforestation, liquid effluents and solid waste, which impose conditions to obtain environmental licenses for our operations with the risk of interruption of activities in case of non-compliance. Due to the extreme importance of agriculture in climate mitigation and adaptation processes, Minerva Foods is also responsible for the National Policy on Climate Change (PNMC), established by Law No. 12,187, of December 2009, which provides for the reduction of emissions in its guidelines. greenhouse gases in relation to their different sources and the implementation of measures to promote adaptation to climate change by the three spheres of the Federation, with the participation and collaboration of interested economic and social agents or beneficiaries, among others. In addition, the Brazilian NDC (Nationally Determined Contribution), whose base year is 2005, aims to reduce total net greenhouse gas emissions by 37% by 2025 and up to 43% by 2030, as well as achieving neutrality climate until 2060.
Emerging regulation	Relevant, always included	Among the emerging regulations, the recent demand from the Brazilian Securities and Exchange Commission (CVM) for the integration of social, environmental and governance information, including climate factors, in the disclosure of the Reference Form, a mandatory annual reporting for companies listed at the Brazilian Stock Exchange (B3). This change will take effect from 2023 on and will require Minerva Foods to better detailing its ESG risks and management practices in a regulatory form. In addition, transition risks arising from the establishment of carbon markets (or carbon tax) in locations where the Company operates have been monitored since Minerva Foods might be liable to pay high fees due to atmospheric emissions from its supply chain. To mitigate such risks Minerva Foods has been investing in renewable energy, as exemplified by the Bucaramanga site's solar power plant in Colombia;
Technology	Relevant, always included	The use of technology is necessary to improve practices to mitigate and adapt to climate change so that Minerva Foods processes, procedures, and practices are more climate driven. The absence of technologies may characterize a risk as the Company may lag its national and international peers in the management and monitoring of suppliers compliance with deforestation regulation. In this sense Minerva Foods employs Geographic Information Systems (GIS), that monitors cattle suppliers to guarantee cattle purchases from areas free of deforestation what, otherwise, contributes to increase the temperature of the planet and its consequences. In Brazil, Minerva Foods is the only company to monitor 100% of its direct supplier farms using georeferenced maps in all biomes in which it operates (Amazon, Cerrado, Pantanal and Atlantic Forest), including all full-cycle farms, from birth to processing. Additionally, Minerva Foods committed by 2030, expand geospatial monitoring of direct supplier farms to all countries where the Company operates in South America and develop and implement a program for monitoring indirect supplier farms for all South American countries.
Legal	Relevant, always included	Minerva Foods, as a company registered in Brazilian territory, is legally responsible for the constitution, its respective laws and the Brazilian Forest Code, among other regulations that may result in legal risks, in which the Company must act accordingly to avoid illegal deforestation, soil degradation, water contamination, etc. In addition, Minerva Foods can legally respond to harmful practices to the environment and the climate caused by its direct and indirect suppliers. That's another reason why it is necessary to constantly improve Minerva Foods supply chain management to avoid the purchase of cattle from illegal origin.
Market	Relevant, always included	Minerva Foods exports represented 68% of its gross revenue in 2021 and as a Company that exports mostly of its production, Minerva Foods is subject to regulation and demands from international markets, such as Europe and China. This may pose risks of market loss given that demand for value chains free from deforestation is growing, better management of GHG emissions is required as is the implementation of best practices of adaptation and mitigation of climate change. One example to deal with this risk is the project partnered with EMBRAPA that measured the net GHG emissions on 23 properties in the 20/21 season, with assessment tools and protocols based on the GHG Protocol and the definitions of the UNFCCC. 22 of the sampled ranches emitted lower GHG per thousand head of cattle than the average for Brazilian cattle farming, and nearly half managed to sequester carbon in their production system, making them carbon negative. The initial results achieved show that the project's farms, which supplied more than 50,000 animals to Minerva Foods, adopt sustainable practices that sequester carbon, especially in soil management to avoid the degradation of pastureland and to implement integrated systems.
Reputation	Relevant, always included	Minerva Foods is subject to reputational risks that can impact its brand, its business, its customers and other relevant stakeholders. Therefore, seek to guarantee that the Company's business model is aligned with sustainable development practices is paramount. In this sense Minerva Foods' has been executing sustainable practices in every stage of its value chain. For instance, in 2021 there were 100% compliance in audits on Minerva Foods Public Livestock Commitment, including criteria such as zero illegal deforestation in the Amazon, encroachment into indigenous lands, protected areas, slave labor and embargoes by the environmental authority. Moreover, all electricity supplied to Minerva Foods operations is clean and supported by International Renewable Energy Certificates (I-RECs). Wind power certificates have been purchased in Brazil, and hydropower certificates in other countries in South America. Certificates have not been obtained for operations in Paraguay, as they already derive their power supply from renewable sources. Minerva Foods is also the first company in Brazil to obtain a Renewable Energy Seal of Approval, awarded by Instituto Totum in partnership with the Brazilian Wind Power Association (ABE Eólica) and the Brazilian Clean Energy Association (ABRAGEL). This certification attests that power plants not only use renewable energy sources but also adopt enhanced social and community engagement practices.
Acute physical	Relevant, always included	The probability of occurrence of water shortage varies depending on the region where our operations are located. This factor directly affects operations, since the lack of rain caused by climate change can lead to increased costs of inputs such as cattle (80% of company's costs), energy and water, essential items for the operation of factories and food production. Climate change can also lead to the spread of diseases that can directly affect the availability of livestock and access to different markets. All slaughter cattle purchased in Brazil undergo inspection by veterinarians from the Federal Inspection Service (SIF) of the Ministry of Agriculture, Livestock and Supply (Mapa), which authorizes the production and industrialization of beef. In other countries, there are similar bodies responsible for disease controls (Senacsa - Paraguay; MGAP - Uruguay; MADR - Colombia; MGAP - Argentina). Forest fires on our suppliers' farms, caused by heat waves, can affect the supply of cattle as well as jeopardize operations in locations far from urban centers. Minerva Foods has been already investing in geographic diversification of its operating units to take advantage of the abundance of pastures and to reduce dependence on agricultural commodities in the herd's diet, implement basis arbitrage and reduce the likelihood of operations in areas of water stress. This strategy aims to mitigate large variations in the cost of raw material acquisition, physical impacts that compromise the production and distribution capacity of different operating units. At the same time, it can quickly reallocate orders and to mitigating health risks that could temporarily close markets. Minerva Foods is also committed to diversifying its customer base and markets served. In this sense the Company has sales offices in 16 locations around the world to provide specialized service to customers in each region.
Chronic physical	Relevant, always included	Water scarcity is one of the risks mapped by the Company and its probability of occurrence varies according to the region where our operations are located. This factor directly affects operations, since the lack of rain caused by climate change can lead to increased costs for raw materials such as energy, water, wastewater treatment and shortages in livestock production, items that are essential for the operation of factories and food production. Minerva Foods has been already investing in geographic diversification of its operating units to take advantage of the abundance of pastures and to reduce dependence on agricultural commodities in the herd's diet, implement basis arbitrage and reduce the likelihood of operations in areas of water stress. This strategy aims to mitigate large variations in the cost of raw material acquisition, physical impacts that compromise the production and distribution capacity of different operating units. At the same time, it can quickly reallocate orders and to mitigating health risks that could temporarily close markets. Minerva Foods is also committed to diversifying its customer base and markets served. In this sense the Company has sales offices in 16 locations around the world to provide specialized service to customers in each region.

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

Reputation	Shifts in consumer preferences
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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

Minerva Foods is an export-oriented company with 68% of gross revenue related to the foreign market in 2021. The company is internationally recognized for supplying premium and quality beef to more than 100 countries that demand the highest standards in terms of traceability and food safety, animal welfare and full environmental and labor compliance based on its own mandatory import criteria. To meet and maintain access to the most stringent export requirements of regions and countries such as the European Union, the United States, China and others, it is necessary to pay attention to the new requirements related to the climate change agenda. To deal with such risk the Company has been developing several social, environmental and climate change mitigation initiatives with suppliers and at own operations. For instance, Minerva Foods' Biodiesel, an operation that produces biodiesel from byproducts from animal slaughter—as well as materials such as soy, coconuts and chicken fat—was certified in 2021 within RenovaBio, a component of the Brazilian Decarbonization Program. With its certification, the operation is now eligible to issue Decarbonization Credits (CBios) for sale to fuel distribution companies. Minerva Biodiesel has now joined a nation-wide program to reduce GHG emissions, launched by the Federal Government as part of its commitments as a signatory of the Paris Agreement. CBios credits also amplify the Company's ability to generate economic benefits, attract investors and gain faster access to more competitive finance. Besides tallow, Minerva Biodiesel purchases non-cattle-derived raw materials from around 50 smallholders for the production of biodiesel. With a unit in Palmeiras de Goiás – GO, Minerva Biodiesel has a production capacity of 200m³/day.. Additionally, in 2021, 100% compliance in audits on Minerva Foods Public Livestock Commitment, including criteria such as zero illegal deforestation in the Amazon, encroachment into indigenous lands, protected areas, slave labor and embargoes by the environmental authority. It is also worth mentioning changes in consumer behavior that increasingly is demanding more action related to the environmental agenda, what would eventually lead to a change to alternative sources of proteins if the animal protein sector does not meet the expectations and concerns of this public. Currently, more than 95% of Minerva Foods revenues comes from animal protein.

Time horizon

Long-term

Likelihood

More likely than not

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

3108000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

In the worst-case scenario, exports would drop to zero, materially impacting the Company's revenues. Current revenue = BRL 28.57 billion Export revenue = R\$ 19.43 billion (~68% of revenue). Considering that the European Union and the United States are two markets with strict sustainability criteria and represent 16% of exports. Therefore export revenue to these countries = BRL 3.108 billion (16% of 68% of revenue).

Cost of response to risk

1500000

Description of response and explanation of cost calculation

In the short run, several environmental and social initiative has been developed to strengthen operational standards. One example is the project partnered with EMBRAPA that measured the net GHG emissions on 23 rural properties from the Company's supply in the 20/21 season, with assessment tools and protocols based on the GHG Protocol and the definitions of the UNFCCC. 22 of the sampled ranches emitted lower GHG per thousand head of cattle than the average for Brazilian cattle farming, and nearly half managed to sequester carbon in their production system, making them carbon negative. The initial results achieved show that the project's farms, which supplied more than 50,000 animals to Minerva Foods, adopt sustainable practices that sequester carbon, especially in soil management to avoid the degradation of pastureland and to implement integrated systems. Another example is that in 2021, 28 direct suppliers were deemed to be at significant risk for incidents of forced or compulsory labor in Brazil. The Company immediately and automatically blocked these suppliers, preventing any further purchases from being made. The cost of the supplier monitoring R\$ 1.5 million per year.

Comment**Identifier**

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Chronic physical	Changing precipitation patterns and types (rain, hail, snow/ice)
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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

The Company's operating margins depend on the purchase price of raw materials (such as the purchase of cattle) and the sale price of its products. Such prices can vary significantly because of several factors. In relation to raw material, cattle represent approximately 80% of the cost of products sold by the Company. The supply and price of this raw material depend on factors over which the Company has little or no control, including the supply and demand of animals, unusual weather conditions resulting from climate change (such as dry periods in months normally characterized by good volume of rain), disease outbreaks such as foot-and-mouth disease and any outbreaks of new diseases, costs related to supplementation, economic conditions, among others.

Time horizon

Medium-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

The company has not yet calculated the financial impact for this risk.

Cost of response to risk**Description of response and explanation of cost calculation****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

Energy source

Primary climate-related opportunity driver

Other, please specify (Business diversification)

Primary potential financial impact

Returns on investment in low-emission technology

Company-specific description

Minerva Biodiesel, an operation that produces biodiesel from byproducts from animal slaughter—as well as materials such as soy, coconuts and chicken fat—was certified in 2021 within RenovaBio, a component of the Brazilian Decarbonization Program. With its certification, the operation is now eligible to issue Decarbonization Credits (CBios) for sale to fuel distribution companies. Minerva Foods Biodiesel has now joined a nation-wide program to reduce GHG emissions, launched by the Federal Government as part of its commitments as a signatory of the Paris Agreement. CBios credits also amplify the Company's ability to generate economic benefits, attract investors and gain faster access to more competitive finance. Besides tallow, Minerva Biodiesel purchases non-cattle-derived raw materials from around 50 smallholders for the production of biodiesel. With a unit in Palmeiras de Goiás – GO, Minerva Biodiesel has a production capacity of 200m³/day.

Time horizon

Short-term

Likelihood

Virtually certain

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

250000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Minerva Biodiesel income in 2021 was BRL 250 million.

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

Comment

Identifier

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Energy source

Primary climate-related opportunity driver

Other, please specify (Use of energy sources with lower emissions)

Primary potential financial impact

Reduced indirect (operating) costs

Company-specific description

Part of the Minerva Foods business, Minerva Energia was created to manage the exposure of Minerva Foods facilities to the Brazilian electricity market, monitor the facilities' energy consumption, balance its short- and long-term energy positions and manage the purchase contracts in regulated and deregulated energy markets. In addition, it offers to commercial partners creative, structured, and personalized products to reduce energy consumption in the deregulated Brazilian energy market, in order to directly and indirectly reduce their spending on this input.

Time horizon

Short-term

Likelihood

Virtually certain

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

Comment

Identifier

Opp3

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Energy source

Primary climate-related opportunity driver

Use of lower-emission sources of energy

Primary potential financial impact

Reduced direct costs

Company-specific description

Since 2020, the company zeroed its scope 2 net emissions by purchasing Renewable Energy Certificates (I-RECs) for all operations, ensuring a clean energy matrix for 100% of its operations and zero net emissions for scope 2. Wind power certificates have been purchased in Brazil, and hydropower certificates in other countries in South America. Certificates were obtained for operations in Paraguay, as they already derive their power supply from renewable sources. Minerva Foods is also the first company in Brazil to obtain a Renewable Energy Seal of Approval, awarded by Instituto Totum in partnership with the Brazilian Wind Power Association (ABE Eólica) and the Brazilian Clean Energy Association (ABRAGEL). This certification attests that power plants not only use renewable energy sources but also adopt enhanced social and community engagement practices.

Time horizon

Long-term

Likelihood

Virtually certain

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

Comment

Identifier

Opp4

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Energy source

Primary climate-related opportunity driver

Use of new technologies

Primary potential financial impact

Returns on investment in low-emission technology

Company-specific description

The Bucaramanga unit, located in Colombia, acquired in September 2020, stands out in the energy efficiency theme, as it has 1,471 solar panels installed in the corrals area, producing around 1,964.8 kW/h of renewable energy, reducing energy consumption from GRID and 88.9 tons of CO₂ equivalent avoided in 2021. The implementation allows for an increase in the percentage of self-generation of energy at the plant, increasing the efficiency of its processes, in addition to continuing the plan to reduce the carbon footprint generated by its activities. In this way, it also helps to improve the infrastructure of the corrals, updating and bringing benefits such as a reduction in the concentration of ammonia and urea, as well as an approximate reduction of 3 degrees Celsius in the animals' thermal sensation.

Time horizon

Long-term

Likelihood

Virtually certain

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

60000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Annual monetary saving is calculated only by the energy cost at Bucaramanga site multiplied by the electric energy generated in 2021.

Cost to realize opportunity

52000000

Strategy to realize opportunity and explanation of cost calculation

The installation of one solar power plant in each unit costs more than BRL 52 million. They could avoid about 940 CO₂e emissions annually

Comment

Identifier

Opp5

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

In 2020, Minerva Foods invested in research and development in order to seize opportunities and mitigate climate risks through an investment of US\$ 4 million in The EVERY Company (formerly Clara Foods), a startup based in San Francisco (United States) and active in protein based products in fermentation, free of animal protein. The startup's production process uses pesticide-free ingredients, antibiotics and preservatives, in addition to consuming less water and energy, in line with the Company's sustainability strategy.

Time horizon

Medium-term

Likelihood

Virtually certain

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

4000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Investments in The EVERY Company correspond to US\$ 4 million.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

To realize this opportunity, in 2020 Minerva Foods created its innovation area focused on the pillars of advanced data analysis, e-commerce/marketplace and venture capital platform, with the objective of reducing risks, maximizing opportunities and advancing in the value chain of the food industry.

Comment**Identifier**

Opp6

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 through access to new and emerging markets

Company-specific description

The Renove Program is based on three key components for its effectiveness: Training, Green Finance, and Technical and Institutional Partnerships. Training and technical assistance are essential to ensure the proper establishment and maintenance of best practices over time. The Program supports partnerships and rural extension activities, technology transfer, and training so that rural technicians and ranchers have the necessary tools and knowledge. On the Green Finance front, the Renove Program works with financial institutions to enable credit lines and funds that recognize the performance of partner cattle ranchers. The access to differentiated rural credit for cattle ranchers engaged in sustainable cattle farming is fundamental to make the wide implementation of good practices feasible. Finally, the Renove Program works together with renowned institutions in South America including Embrapa (Brazilian Agricultural Research Corporation), CIAT and Imaflores (Institute for Forest and Agricultural Management and Certification) to ensure the use of known and internationally credible methodologies, scientific support and innovation. In 2021, the Renove Program was implemented in all countries in which Minerva Foods' operates in Latin America, engaging a total of 91 farms, and developing projects in partnership with strategic institutions. Starting in 2021, The Renove Program began to work on three different projects. The MRV Agro Project, in partnership with Embrapa, aimed at developing a Measurement, Reporting and Verification (MRV) protocol for Agro; second, the AgroTag Carbon application, for georeferencing data and calculating the inventory of greenhouse gas emissions from farms; and finally, adapting and updating the GHG Protocol for proper use in feedlots. In the project, the carbon balance of 23 ranches in Brazil was calculated (period from July 2020 to June 2021). The participating ranches supplied 12% of the volume of cattle purchased in Brazil in 2021. The initial results found that 22 ranches emit less than the national average for livestock activity and that 11 are actually carbon negative as they sequestered more carbon than what was emitted. This is a result of the good practices employed in land management and land use, such as the reclamation of degraded pastures through the introduction of Integrated Crop-Livestock-Forestry (ILPF), and by shifting from conventional cultivation to conservationist cultivation, such as no-till farming (SPD).

Time horizon

Long-term

Likelihood

Virtually certain

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

Comment

Identifier

Opp7

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

In 2021, a joint venture was also carried out with an initial investment of US\$ 5 million in Amyris, with the objective of developing various products, especially in the segment of recombinant proteins via the fermentation process and free of animal protein (animal-free), including natural fermentation preservatives that allow for significant changes in the process of storage and transport of beef. Minerva Foods will have an initial 60% stake in the joint venture's total capital. The expectation is that the first initiative of this partnership will be ready to be commercialized in up to 18 months, while another 4 products are still in the initial phase of research and development.

Time horizon

Medium-term

Likelihood

Virtually certain

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

5000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

In 2021, a joint venture was carried out with an initial investment of US\$ 5 million in Amyris, with the objective of developing various products, especially in the segment of recombinant proteins via the fermentation process and free of animal protein (animal-free), including natural fermentation preservatives that allow for significant changes in the process of storage and transport of beef.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

To realize this opportunity, in 2020 Minerva Foods created its innovation area focused on the pillars of advanced data analysis, e-commerce/marketplace and venture capital platform, with the objective of reducing risks, maximizing opportunities and advancing in the value chain of the food industry.

Comment

Identifier

Opp8

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

Created in 2021, MyCarbon is a subsidiary of Minerva Foods. It is designed to help companies to reach their goals of neutralizing greenhouse gas emissions through carbon offsetting, in a manner that is transparent, reliable, and sustainable. The company develops projects, originates and trades carbon credits, in line with international standards, thereby creating financial opportunities for the preservation of nature, accelerating the drive against climate change, and promoting a low-carbon future. MyCarbon is part of the efforts Minerva Foods has made to implement initiatives that promote a more sustainable, low-carbon livestock production, supporting ranchers throughout South America in adopting a technology-based production system that contributes towards reducing emissions in the value chain. In 2021, MyCarbon carried out its first contract for the certified emissions reduction. In all, 50 thousand tons of carbon equivalent units (Verified Carbon Units) were traded. Each carbon unit corresponds to one ton of CO₂ that was no longer emitted into the atmosphere, which transforms the trading into an effective way of reducing the planet's greenhouse gas emissions.

Time horizon

Medium-term

Likelihood

Virtually certain

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

25000000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

In the case of Brazil, there are at least 500 million tons of carbon equivalent (tCO₂eq) that can be converted into cash by agribusiness sector. An amount that, considering the values currently practiced abroad, would turn into US\$ 5 billion for rural producers.

Cost to realize opportunity

13000000

Strategy to realize opportunity and explanation of cost calculation

The investment required to set up My Carbon was BRL 13 million.

Comment

C3. Business Strategy

C3.1

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

Row 1

Transition plan

No, but our strategy has been influenced by climate-related risks and opportunities, and we are developing a transition plan within two years

Publicly available transition plan

<Not Applicable>

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

<Not Applicable>

Description of feedback mechanism

<Not Applicable>

Frequency of feedback collection

<Not Applicable>

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

<Not Applicable>

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

Sustainability and profitability are recognized as interdependent at Minerva Foods. The Company is committed to fighting climate change and illegal deforestation, driven by science and in partnership with leading research institutions in South America. Throughout 2021, Minerva Foods developed a study with a specialized consulting firm to identify and prioritize projects to mitigate GHG emissions for scopes 1 (direct emissions from operations) and 2 (indirect emissions related to energy acquisition). In 2022, this project will continue, with a focus on scope 3 emissions (indirect emissions not related to energy acquisition). Both projects take into account decarbonization scenarios according to SBTi's methodology. Along with the Renove program, the Company seeks to strengthen partnerships with research institutions, such as Embrapa in Brazil, CIAT in Colombia and INIA in Uruguay, as well as the Institute for Forest and Agricultural Management and Certification – Imaflores, to ensure use of proven and internationally verified methodologies to mitigate GHG emissions on cattle ranches. Minerva Foods has been following international initiatives on the subject of climate change to evaluate the submittal of its targets for third-party analysis. Minerva Foods is assisted on an ongoing basis by a specialized sustainability consultancy and uses the IFC Performance Standards as guidelines for its strategy. Specifically on climate, the company seeks to reduce its operational GHG emissions and define decarbonization measures in line with future scenarios. With the help of a specialized consultancy, in 2022 a climate adaptation strategy will be implemented, based on the analysis of risks and opportunities related to Climate Change in operations and value chain.

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	No, but we anticipate using qualitative and/or quantitative analysis in the next two years	Other, please specify (The transition scenario analysis is under construction)	Minerva Foods is assisted by on an ongoing basis by a specialized consultancy in sustainability and uses the IFC Performance Standards as guidelines for its strategy. Specifically on climate chance, the company seeks to reduce its operational GHG emissions and define decarbonization measures in line with future scenarios. With the help of the consultancy, in 2022 a climate adaptation strategy will be implemented based on the analysis of risks and opportunities related to Climate Change in operations and value chain. The study will be carried out across the company and its value chain using a customized transition scenario (based on SSP trends) and physical climate scenario based on 3 RCPs.

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	To address emerging consumer demand for healthy and environmentally friendly food, Minerva Foods has been investing to access new market niches such as non-animal proteins. The EVERY Company, the Minerva Foods first venture capital investment, formerly Clara Foods, is a biotechnology company that develops animal-free protein food. The fermentation-derived proteins can be used in a wide variety of applications including baking, as a nutritional supplement, and as a protein boost for food and beverages. The R&D explores new ways to create animal-free proteins that match or exceed the taste, texture, and culinary functionality of animal-derived proteins. MyCarbon, a subsidiary company of Minerva Foods, was created in 2021, focused on the activity of developing, acquiring and marketing high quality carbon credits in agriculture, forestry, land use and renewable energy projects in Latin America. In parallel, we are developing the Carbon Project, carried out in partnership with Biofílica Ambipar Environment. In this project, we are carrying out an inventory of emissions on farms to identify activities and opportunities that are effective in reducing emissions and sequestering carbon from the atmosphere. With this, the project will provide an action plan tailored to the reality of each participating farm to reduce or remove greenhouse gases and increase productivity. To this end, the project will enable access to differentiated rural credit, technical assistance, and access to the voluntary carbon market, in order to profit from the carbon credit generated by the project. In this sense, MyCarbon becomes a strategic company for the continuity and sustainability of projects to reduce and remove emissions, connecting carbon credit generators (rural producers) to the carbon market.
Supply chain and/or value chain	Yes	The Company is always attentive to the factors that contributes to climate change and keeps the theme in evidence in its main discussions. Due to the high level of monitoring of its supply chain free from illegal deforestation, the Company has been contributing over the last few years to fight climate change through emissions avoidance from land use change. The Company's efforts to manage the supply chain remain one of the pillars in the relationship suppliers, ensuring security and transparency in the criteria for purchasing cattle. By adopting Sustainable Livestock practices, Minerva Foods continuously improves its social and environmental responsibility through criteria, performance indicators and programs that ensure greater safety and traceability to products. The Company was the first in its industry to expand geospatial monitoring to 100% of direct supplier farms across all biomes in Brazil, and in 2021 completed implementation for 100% of cattle purchases in Paraguay. Minerva Foods plans to achieve the same monitoring coverage in Colombia (2023), Uruguay (2025) and other countries where Minerva Foods operates in South America by 2030. Additionally, The Company's internal cattle sourcing policy contains environmental requirements and, in 2020, Minerva Foods began monitoring stocking rates for 100% of cattle sourced within the Amazon biome, in line with the Amazon Cattle Supplier Monitoring Protocol. Properties exceeding a limit of 3 head per hectare per year are required to submit a Ranch Declaration. Also in 2021, Minerva Foods created the Renove Program, to promote engagement and collaboration with beef suppliers in low-carbon practices and adoption of internationally recognized technologies and methodologies to measure carbon emissions from cattle-farming land.
Investment in R&D	Yes	Under a joint venture agreement concluded in 2021 with Amyris, a biotechnology company, Minerva Foods will further develop fermentation technology using genetically modified yeasts. The new technology will support emissions reductions by developing low-carbon raw materials such as sustainable packaging and fermentation-based, natural preservatives, improving logistics efficiency in the global beef value chain. Additionally, in 2021 Minerva Foods created a subsidiary company dedicated to selling carbon credits and products and services related to the transition to a low-carbon economy. MyCarbon works in partnership with the Renove Program to help farmers adopt better farming practices, supporting increased natural resource efficiency and low-carbon farming.
Operations	Yes	All electricity supplied to Minerva Foods operations is clean and supported by International Renewable Energy Certificates (I-RECs). Wind power certificates have been purchased in Brazil, and hydropower certificates in other countries in South America. Certificates have not been obtained for operations in Paraguay, as they already derive their power supply from renewable sources. Minerva Foods annual emissions inventories are audited and published in the Brazilian GHG Protocol Program's Public Emissions Registry. In 2021 the Company was awarded Gold reporting status—the highest recognition within the program, awarded to companies that report complete data and obtain third-party assurance. The 2021 emissions inventory will also be audited and published in the Public Emissions Registry. Furthermore, in 2021 Minerva Foods carried out an assessment to inform the development of a decarbonization roadmap, based on the development of a Marginal Abatement Cost Curve (MAC), indicating which emissions abatement projects are most cost effective and need to be prioritized in the coming years. The scope 1 emissions projects to be implemented in the near future include wastewater treatment plant upgrades and boiler fuel retrofits in Argentina and Colombia.

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	Revenues Direct costs Capital expenditures Capital allocation Acquisitions and divestments	Climate risks are directly linked to the availability of raw materials in Brazil, since cattle ranching in the country is essentially developed on pasture and the purchase of cattle is largely carried out on the spot market. Therefore, in years where national and international climate models indicate below-average rainfall, the company seeks alternatives so that the slaughter volume is not affected; partnerships with suppliers are usually sought to guarantee the supply of cattle. The drought tends to make the raw material more expensive and, therefore, to demand more working capital. On the other hand, in years of regular rainfall there is an opportunity to expand production and eventually reduce origination cost. Minerva Foods, in the transition to a low-carbon economy, considers the opportunity to explore new markets and also maintain the most demanding ones it already serves. This movement also opens the Company to new sources of financing linked to the performance of its sustainability agenda. The Company has been operating since 2013 in accordance with the International Finance Corporation's Performance Standards, which guide and monitor sustainability actions throughout the supply chain and industrial processes. Minerva Foods is the only Latin American beef company to obtain this investment from IFC, with the objective of continuously complying with its sustainability and value creation guidelines for our entire production chain. With the geographic diversification and decarbonization of operations and investments to increase the portfolio of products and services with alternative proteins and an e-commerce/marketplace platform, Minerva Foods becomes more resilient against the negative effects of climate change. In 2020, Minerva Foods created its innovation area focused on the pillars of advanced data analysis, e-commerce/marketplace platform and venture capital. To diversify its portfolio, Minerva Foods seeks to invest in alternative proteins. The EVERY Company, the Minerva Foods first venture capital investment, formerly Clara Foods, is a biotechnology company that develops animal-free protein food. The fermentation-derived proteins can be used in a wide variety of applications including baking, as a nutritional supplement, and as a protein boost for food and beverages. The R&D explores new ways to create animal-free proteins that match or exceed the taste, texture, and culinary functionality of animal-derived proteins. Under a joint venture agreement concluded in 2021 with Amyrus, a biotechnology company, Minerva Foods will further develop fermentation technology using genetically modified yeasts. The new technology will support emissions reductions by developing low-carbon raw materials such as sustainable packaging and fermentation-based, natural preservatives, improving logistics efficiency in the global beef value chain. Additionally, in 2021 Minerva Foods created a subsidiary company dedicated to selling carbon credits and products and services related to the transition to a low-carbon economy. MyCarbon works in partnership with the Renove Program to help farmers adopt better farming practices, supporting increased natural resource efficiency and low-carbon farming. Moreover, Minerva Biodiesel, an operation that produces biodiesel from byproducts from animal slaughter—as well as materials such as soy, coconuts and chicken fat—was certified in 2021 within RenovaBio, a component of the Brazilian Decarbonization Program. With its certification, the operation is now eligible to issue Decarbonization Credits (CBios) for sale to fuel distribution companies. Minerva Biodiesel has now joined a nation-wide program to reduce GHG emissions, launched by the Federal Government as part of its commitments as a signatory of the Paris Agreement. CBios credits also amplify the Company's ability to generate economic benefits, attract investors and gain faster access to more competitive finance. Besides tallow, Minerva Biodiesel purchases non-cattle-derived raw materials from around 50 smallholders for the production of biodiesel. With a unit in Palmeiras de Goiás – GO, Minerva Biodiesel has a production capacity of 200m ³ /day.

C4. Targets and performance

C4.1

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

Intensity target

C4.1b

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

Target reference number

Int 1

Year target was set

2021

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

<Not Applicable>

Intensity metric

Metric tons CO₂e per metric ton of product

Base year

2020

Intensity figure in base year for Scope 1 (metric tons CO₂e per unit of activity)

0.16

Intensity figure in base year for Scope 2 (metric tons CO₂e per unit of activity)

0

Intensity figure in base year for Scope 3 (metric tons CO₂e per unit of activity)

<Not Applicable>

Intensity figure in base year for all selected Scopes (metric tons CO₂e per unit of activity)

0.16

% of total base year emissions in Scope 1 covered by this Scope 1 intensity figure

100

% of total base year emissions in Scope 2 covered by this Scope 2 intensity figure

100

% of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this Scope 3 intensity figure

<Not Applicable>

% of total base year emissions in all selected Scopes covered by this intensity figure

100

Target year

2030

Targeted reduction from base year (%)

30

Intensity figure in target year for all selected Scopes (metric tons CO2e per unit of activity) [auto-calculated]

0.112

% change anticipated in absolute Scope 1+2 emissions

0

% change anticipated in absolute Scope 3 emissions

0

Intensity figure in reporting year for Scope 1 (metric tons CO2e per unit of activity)

0.17

Intensity figure in reporting year for Scope 2 (metric tons CO2e per unit of activity)

0

Intensity figure in reporting year for Scope 3 (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for all selected Scopes (metric tons CO2e per unit of activity)

0.17

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

-20.83333333333334

Target status in reporting year

New

Is this a science-based target?

No, but we anticipate setting one in the next 2 years

Target ambition

<Not Applicable>

Please explain target coverage and identify any exclusions

The target contemplates the reduction of all scope 1 and 2 emissions intensity by 30% by 2030 and maintain net zero emissions in the electricity mix (scope 2).

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

In 2021 Minerva Foods carried out an assessment to inform the development of a decarbonization roadmap, with support from specialized consultants. Using internationally recognized methodologies, the assessment benchmarked the Company's scope 1 and 2 emissions in recent years against the broader protein sector's emissions profile, and designed emission scenarios based on the Company's operational and strategic outlook. This informed the development of a Marginal Abatement Cost Curve (MAC), indicating which emissions abatement projects are most cost effective and need to be prioritized in the coming years. All electricity supplied to Minerva Foods operations is clean and supported by International Renewable Energy Certificates (I-RECs). Wind power certificates have been purchased in Brazil, and hydropower certificates in other countries in South America. Certificates have not been obtained for operations in Paraguay, as they already derive their power supply from renewable sources. The goal has already been achieved in 2020 and maintained in 2021, with 100% of electricity coming from renewable sources.

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

Net-zero 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

2021

Target coverage

Company-wide

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)

14590

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

100

Target year

2021

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

100

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

100

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

<Calculated field>

Target status in reporting year

Achieved

Is this target part of an emissions target?

Int 1

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

To maintain net zero emissions in the electricity mix (scope 2), a goal already achieved in 2020 and maintained in 2021, with 100% of electricity coming from renewable sources. All electricity supplied to Minerva Foods operations is clean and supported by International Renewable Energy Certificates (I-RECs). Wind power certificates have been purchased in Brazil, and hydropower certificates in other countries in South America. Certificates have not been obtained for operations in Paraguay, as they already derive their power supply from renewable sources

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

I-RECs and renewable energy purchase

C4.2c

(C4.2c) Provide details of your net-zero target(s).

Target reference number

NZ1

Target coverage

Company-wide

Absolute/intensity emission target(s) linked to this net-zero target

Int1

Target year for achieving net zero

2035

Is this a science-based target?

No, but we anticipate setting one in the next 2 years

Please explain target coverage and identify any exclusions

All scope 1, 2 and 3 emissions

Do you intend to neutralize any unabated emissions with permanent carbon removals at the target year?

Yes

Planned milestones and/or near-term investments for neutralization at target year

Prior budget of R\$1.5 billion through 2035

Planned actions to mitigate emissions beyond your value chain (optional)

The core objective in the commitment to sustainability is to drive Minerva Foods transition to a low-carbon economy, transforming it into a carbon-neutral company (net zero emissions) by 2035, 15 years ahead of the Paris Agreement. To achieve this, the Company will focus on three major areas: 1. Scopes 1 and 2 GHG emissions – Environmental Efficiency of operations:: 1.1 Reduce by 30% the intensity of GHG emissions in scopes 1 and 2 by 2030; and 1.2 Maintain the energy matrix carbon neutral (net zero emissions in scope 2 – target already achieved in 2020). 2. Scope 3 GHG emissions – Zero illegal deforestation throughout the supply chain (direct and indirect suppliers) for all countries of operation in South America by 2030: 2.1 100% geographic monitoring of direct suppliers in Paraguay by December 2021 (target achieved by December 2021), Colombia by 2023, Uruguay by 2025 and further extension to other South American countries by 2030; and 2.2 Development of a monitoring program of indirect suppliers in all countries of operation in South America by 2030, including : 2.2.1 Integration of the Visipec tool into the geographic monitoring system for the Amazon by December 2021 (target reached four months ahead of schedule); 2.2.2 Release of an app to verify the indirect suppliers in Brazil, in partnership with Niceplanet Geotecnologia, by December 2021 (target reached two months ahead of schedule). 3. Scope 3 GHG emissions – Renove Program, low carbon emission in the supply chain: 3.1 50% of beef suppliers taking part in the Renove program by 2030; and 3.2 Establish a partnership with research institutions to apply a methodology to monitor, report and verify the carbon balance of suppliers in South American countries of operation, with preliminary results expected in 2021 (target reached with the release during the United Nations Climate Change Conference – COP26).

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	21	0
To be implemented*	0	0
Implementation commenced*	0	0
Implemented*	1	53182.32
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	Large hydropower (>25 MW)
-------------------------------	---------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

53093.41

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)

350000

Payback period

<1 year

Estimated lifetime of the initiative

Ongoing

Comment

The investment required is approximately de cost of the I-RECs

Initiative category & Initiative type

Low-carbon energy consumption	Solar PV
-------------------------------	----------

Estimated annual CO2e savings (metric tonnes CO2e)

88.91

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)

160000

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

737700

Payback period

4-10 years

Estimated lifetime of the initiative

>30 years

Comment

Annual monetary saving is calculated only by the energy cost at Bucaramanga site where there is a solar power plant. It does not consider operating costs. The investment of more than \$612million of Colombian's pesos was made in 2009 before Minerva Foods acquisition (average price of Colobin's pesos in 2019 R\$ 830.00).

C4.3c

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

Method	Comment
Internal incentives/recognition programs	Minerva Foods Atitude Campeã Program mobilizes employees of industrial units in a healthy competition in measuring key indicators, such as maintenance and energy matrix indicators, directly linked to the Company's consumption, impacting the management of greenhouse gas emissions. This analysis is done monthly, scoring the best units and sectors, which are awarded by its better performance. In 2021 Program, the methodology used to assess the indicators was revised, bringing new guidelines and assessment items. The monetary bonus is proportional to the podium position. The first place receives bonus of 100% of monthly salary, the second position receives bonus of 50% of monthly salary and the third 25% of monthly salary.
Employee engagement	Minerva Foods Champion Attitude Program mobilizes employees of industrial units in a healthy competition in measuring key indicators, such as maintenance and energy matrix indicators, directly linked to the Company's consumption, impacting the management of greenhouse gas emissions. This analysis is done monthly, scoring the best units and sectors, which are awarded by its better performance. In 2021 Program, the methodology used to assess the indicators was revised, bringing new guidelines and assessment items. Additionally, Minerva Foods encourages its factory employees to seek opportunities to reduce consumption in the energy matrix through the collaboration of the EVA Groups (Energy, Steam and Water), which are focused on identifying potential improvements. The monetary bonus is proportional to the podium position. The first place receives bonus of 100% of monthly salary, the second position receives bonus of 50% of monthly salary and the third 25% of monthly salary.
Dedicated budget for energy efficiency	Minerva's sustainability strategy is based on the contribution to a healthy world and thriving communities, and for this, the Company expects to invest R\$1.5 billion until 2035 for energy efficiency projects that aim to reduce the intensity of scope 2 emissions by 30% until 2030.
Dedicated budget for low-carbon product R&D	Minerva's sustainability strategy is based on the contribution to a healthy world and prosperous communities, and for this, the Company expects to invest R\$1.5 billion until 2035 for low-carbon projects, in line with the commitment to have 50% of its beef suppliers participating in the low-carbon program
Dedicated budget for other emissions reduction activities	Minerva's sustainability strategy is based on the contribution to a healthy world and prosperous communities, and for this, the Company expects to invest R\$1.5 billion until 2035 for energy efficiency projects that aim to reduce the intensity of scope 1 emissions by 30% until 2030.
Compliance with regulatory requirements/standards	Minerva Foods is the only company in its sector to receive financing from the International Finance Corporation (IFC), a right-hand of the World Bank. Therefore, it is necessary to apply its rigorous standards of social-environmental performance, often more demanding than the local legislation itself, such as the resource efficiency and pollution prevention guideline, which determines the objectives of avoid or minimize adverse impacts on human health and in the environment, avoiding or minimizing pollution resulting from project activities; promote more sustainable use of resources, including energy and water, and; reduce related GHG emissions.
Partnering with governments on technology development	For the development and implementation of a program for monitoring indirect supplier farms for all operating countries in South America until 2030, Minerva Foods counts on strengthening partnerships with research institutions such as Embrapa in Brazil, CIAT in Colombia and INIA in Uruguay, in addition to the Forestry and Agricultural Management and Certification Institute - Imaflores, to ensure the use of robust and internationally verified methodologies
Employee engagement	Minerva Foods also has the CMQ Program – "Círculo Minerva Foods' de Qualidade", which encourages employees of industrial units to form volunteer groups to identify improvements in operational efficiency, work safety, eco-efficiency, among others. Participants receive methodological training to support the structuring of projects and meet periodically for discussion and planning. The CMQ was implemented in all operation units during 2020 and 2021. This program gift the employees with symbolic prizes, such as special lunch, bags, bottles, voucher for restaurants, etc.

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

Product or service

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

Green Bond Principles (ICMA)

Type of product(s) or service(s)

Biofuels	Other, please specify (byproducts from animal slaughter—as well as materials such as soy, coconuts and chicken fat)
----------	---------------------------------------------------------------------------------------------------------------------

Description of product(s) or service(s)

Minerva Biodiesel, an operation that produces biodiesel from byproducts from animal slaughter—as well as materials such as soy, coconuts and chicken fat—was certified in 2021 within RenovaBio, a component of the Brazilian Decarbonization Program. With its certification, the operation is now eligible to issue Decarbonization Credits (CBios) for sale to fuel distribution companies. Minerva Biodiesel has now joined a nation-wide program to reduce GHG emissions, launched by the Federal Government as part of its commitments as a signatory of the Paris Agreement. CBios credits also amplify the Company's ability to generate economic benefits, attract investors and gain faster access to more competitive finance. Besides tallow, Minerva Biodiesel purchases non-cattle-derived raw materials from around 50 smallholders for the production of biodiesel. With a unit in Palmeiras de Goiás – GO, Minerva Biodiesel has a production capacity of 200m³/day.

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 (Renovabio methodology)

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

Use stage

Functional unit used

1CBio is equivalent to 1 ton of CO₂e avoided

Reference product/service or baseline scenario used

Use of fossil fuel for the same amount of energy generated by Biodiesel.

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

Use stage

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

97337

Explain your calculation of avoided emissions, including any assumptions

The GHG emissions from each biofuel life cycle process are estimated according to the IPCC (2006). The sum of these emissions results in the carbon intensity of the biofuel in gCO₂eq/MJ which, subtracted from the carbon intensity of its equivalent fossil fuel, generates the energy-environmental efficiency score of the biofuel, and gives access to decarbonization credits, with market value.

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

1

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	Yes, a change in boundary	For the first time Minerva Foods' GHG Inventory accounted for scope 3 emissions associated with the purchased goods and services category , which accounts for lifetime enteric fermentation and manure management emissions from livestock. This is a source that mainly emits methane gas (CH4), which has a global warming potential 28 times greater than CO2, contributing significantly to the high representativeness of this source in 2021 GHG Inventory. It is worth noting that this source is an indirect source of Minerva Foods' activities associated with the organization's main activity. In 2021 Minerva Foods has calculated the Transportation & Distribution upstream category , Business Travel , Waste generation in operation and Employee commuting for all operation.

C5.1c

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

	Base year recalculation	Base year emissions recalculation policy, including significance threshold
Row 1	No, because we have not evaluated whether the changes should trigger a base year recalculation	

C5.2

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

Scope 1

Base year start

January 1 2020

Base year end

December 31 2020

Base year emissions (metric tons CO2e)

233274.66

Comment

Scope 2 (location-based)

Base year start

January 1 2020

Base year end

December 31 2020

Base year emissions (metric tons CO2e)

14590.81

Comment

Scope 2 (market-based)

Base year start

January 1 2020

Base year end

December 31 2020

Base year emissions (metric tons CO2e)

0

Comment

In 2021, Minerva Foods acquired renewable energy I-REC certificates for 100% of operations zeroing its emissions in scope 2.

Scope 3 category 1: Purchased goods and services

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

16501475.65

Comment

Accounted for the first time in 2021 GHG Inventory

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

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

225845.01

Comment

Scope 3 category 5: Waste generated in operations

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

30686.65

Comment

Accounted for the first time in 2021 GHG Inventory

Scope 3 category 6: Business travel

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

832.33

Comment

Scope 3 category 7: Employee commuting

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

3178.8

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.

Brazil GHG Protocol Programme

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)
283144.86

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 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
53093.41

Scope 2, market-based (if applicable)
0

Start date
<Not Applicable>

End date
<Not Applicable>

Comment
In 2021, Minerva Foods acquired 321.695 Renewable Energy Certificates (iRECs), with electricity consumption equal to 388,610.03 MWh, considering the units in Paraguay, where electricity consumption comes from renewable sources. As a result, Minerva Foods will report its scope 2 emissions also through the purchase choice (market-based) approach in its GHG inventory and had its emissions in this approach zeroed.

C6.4

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

No

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)

16501475.65

Emissions calculation methodology

Other, please specify (For LATAM data we use TIER 1 (IPCC data); for BRA data we use TIER 2 (national data recognized by the Ministry of Science, Technology, Innovation and Communication))

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

0

Please explain

Minerva Foods largest source GHG emissions in 2021 inventory is associated with the Scope 3 purchased goods and services category, which accounts for lifetime enteric fermentation and manure management emissions from livestock. This is a source that mainly emits methane gas (CH4). It is worth noting that this source is an indirect source of Minerva Foods activities associated with the organization's main activity. To calculate greenhouse gas emissions from enteric fermentation and waste management in Brazil, we use local data (emission factors) that is broken down by gender, age (with is calculated based on animals' dentition) and state of origin of each animal. For Latin American units, we use the emission factor data from IPCC reports.

Capital goods

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

Emissions of capital goods are relevant and are about to be added to the reporting of Scope 3 emissions for the next cycle of the greenhouse gas inventory, since the data is in the survey phase with the areas responsible at Minerva Foods.

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

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

Activities related to fuel and energy are relevant and are about to be added to the reporting of Scope 3 emissions for the next cycle of the greenhouse gas inventory, since the data is in the survey phase with the areas responsible

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

225845.01

Emissions calculation methodology

Distance-based method

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

0

Please explain

Emissions from transport and distribution were calculated and are available in Minerva Foods 2021 Greenhouse Gas Inventory, allocated in the Public Emissions Registry and in the 2021 Sustainability Report. The survey of data to account for emissions was taken from the Company's logistics area database, and data sent by suppliers or other partners in the value chain wasn't used.

Waste generated in operations

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

30686.65

Emissions calculation methodology

Waste-type-specific method

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

0

Please explain

Emissions related mainly to waste sent to landfill and composting.

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

832.33

Emissions calculation methodology

Distance-based method

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

100

Please explain

Emissions from business travel were calculated and are available in Minerva Foods 2021 Greenhouse Gas Inventory, allocated in the Public Emissions Registry and in the 2021 Sustainability Report. The data collection for accounting of emissions was taken from the supplier's base and used for accounting in Minerva Foods specific emissions system.

Employee commuting

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

3178.8

Emissions calculation methodology

Distance-based method

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

0

Please explain

Emissions from transport and distribution business travel were calculated and are available in Minerva Foods 2021 Greenhouse Gas Inventory, allocated in the Public Emissions Registry and in the 2021 Sustainability Report. The survey of data to account for emissions was taken from the database of the Company's human resources area, and data sent by suppliers or other partners in the value chain wasn't used.

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

Minerva Foods doesn't have activities related to the emissions of leased assets.

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

Emissions from transport and distribution are relevant and are about to be added to the reporting of Scope 3 emissions for the next cycle of the greenhouse gas inventory, since the data is in the survey phase with the areas responsible for logistics of Minerva Foods.

Processing of sold products

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 processing of sold products emissions have not yet been evaluated for calculation and reporting by Minerva Foods in its scope 3 emissions.

Use of sold products

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

Emissions from use of sold products are not relevant as Minerva Foods final product is already for the most part ready for consumption by the B2C customer or to be resold by the B2B consumer. In this case, the only emissions that could be accounted for are related to energy consumption to power household appliances and/or fuel consumption, such as the use of cooking gas or coal.

End of life treatment of sold products

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

End of life emissions are relevant and are about to be added to the reporting of Scope 3 emissions for the next cycle of the greenhouse gas inventory, since the data is in the survey phase with the areas responsible. In 2021, Minerva Foods was awarded the Eureciclo label, in recognition of its good practices in reverse logistics for product packaging. The Company is the first in the beef industry to receive this certification for all product lines marketed in Brazil.

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

The relevance of Upstream leased assets emissions have not yet been evaluated for calculation and reporting by Minerva Foods in its scope 3 emissions.

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

Minerva Foods doesn't have franchises activities

Investments

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

Investment-related emissions are relevant and are about to be added to the reporting of Scope 3 emissions for the next cycle of the greenhouse gas inventory, since the data is in the survey phase with the areas responsible

Other (upstream)

Evaluation status

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

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

C-AC6.8/C-FB6.8/C-PF6.8

(C-AC6.8/C-FB6.8/C-PF6.8) Is biogenic carbon pertaining to your direct operations relevant to your current CDP climate change disclosure?

Yes

C-AC6.8a/C-FB6.8a/C-PF6.8a

(C-AC6.8a/C-FB6.8a/C-PF6.8a) Account for biogenic carbon data pertaining to your direct operations and identify any exclusions.

CO2 emissions from biofuel combustion (processing/manufacturing machinery)

Emissions (metric tons CO2)

278213.01

Methodology

Default emissions factors

Please explain

Scope 1 -Boiler and Ethanol from fleet

CO2 emissions from biofuel combustion (other)

Emissions (metric tons CO2)

7023.51

Methodology

Default emissions factors

Please explain

Scope 3 - Transportation & Distribution and Employee commuting

C-AC6.9/C-FB6.9/C-PF6.9

(C-AC6.9/C-FB6.9/C-PF6.9) Do you collect or calculate greenhouse gas emissions for each commodity reported as significant to your business in C-AC0.7/FB0.7/PF0.7?

Agricultural commodities

Cattle products

Do you collect or calculate GHG emissions for this commodity?

Yes

Please explain

Minerva Foods calculates its greenhouse gas orders for livestock products as collected for the current year's inventory through an internal management tool that is made available to the responsible areas. The data are available in Minerva Foods' 2021 Sustainability Report and in the Public Emissions Registry.

C-AC6.9a/C-FB6.9a/C-PF6.9a

(C-AC6.9a/C-FB6.9a/C-PF6.9a) Report your greenhouse gas emissions figure(s) for your disclosing commodity(ies), explain your methodology, and include any exclusions.

Cattle products

Reporting emissions by

Total

Emissions (metric tons CO2e)

17098256.71

Denominator: unit of production

<Not Applicable>

Change from last reporting year

Much higher

Please explain

The GHG emissions for the disclosure of Minerva Foods livestock products take into account the values disclosed in full, without excluding reported categories, for scope 1 (283144.86 tCO2e), scope 2 (53093.41 tCO2e – Location based) and scope 3 (16762018.44 tCO2e), as they are directly related to the production of the commodity. There has been an increase compared to the last reporting year due to the increase in Minerva Foods scope 1 and 2 emissions. The operation return of some unites, increase in slaughter, improvement in data accuracy and also due to the increase in the average annual emission factor of electrical energy from Brazil, Uruguay and Argentina. It is worth mentioning that in 2021 there was the inclusion of the emission sources in scope 3 not previously accounted for (such as enteric fermentation from the Cattle, waste management, Transportation & Distribution upstream) . The methodology used to prepare the GHG Inventory was the guidelines of the Brazilian GHG Protocol Program in which the relevance, completeness, consistency, transparency and accuracy of the data were considered. In addition, for purposes of defining organizational boundaries, the operational control method was used, in which the production units of Brazil and Latin American operations were considered.

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

0.174278567

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

283144.85

Metric denominator

metric ton of product

Metric denominator: Unit total

1624668.23

Scope 2 figure used

Market-based

% change from previous year

21.38

Direction of change

Increased

Reason for change

In relation to scopes 1 and 2, there is an increase in emissions due to the return of unit operations, increased slaughter, improvement in data accuracy.

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	1533.515	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	89237.345	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	2437.228	IPCC Fourth Assessment Report (AR4 - 100 year)
HFCs	332.223	IPCC Fourth Assessment Report (AR4 - 100 year)

C7.2

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

Country/Region	Scope 1 emissions (metric tons CO2e)
Brazil	93540.32
Argentina	65016.5
Colombia	44282.5
Paraguay	30741.88
Uruguay	49563.68

C7.3

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

By business division

By facility

By activity

C7.3a

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

Business division	Scope 1 emissions (metric ton CO2e)
Distribution center	17.17
Processed	972.28
Food industry	281842.49
Administrative unit	242.16
Minerva Foods Business	70.76

C7.3b

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

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Araguaína (TO) / Brasil	10633.11	-7.283297	-48.268586
Assunção (planta 2) / Paraguai	410.6	-25.260444	-57.592055
Assunção (planta 8) / Paraguai	1285.2	-25.257455	-57.591069
Barretos (SP)/ Brasil	10466.38	-20.553346	-48.552886
Belén / Paraguai	15517.99	-23.479127	-57.266583
Canelones / Uruguai	11133.01	-34.538308	-56.280277
Carrasco/ Uruguai	11119.5	-34.864633	-56.058838
Araraquara (SP)/ Brasil	17.17	-21.7447	-48.1336
Barretos (Escritório Corporativo - SP)/ Brasil	242.14	-20.5533	-48.5528
Janaúba (MG)/ Brasil	24986.24	-15.776938	-43.318605
José Bonifácio (SP) / Brasil	6857.26	-21.042777	-49.6875
Fine Foods (Barretos - SP)/ Brasil	829.54	-20.555555	-48.551666
Mirassol d'Oeste (MT)/ Brasil	465.13	-15.701111	-58.123888
Palmeiras de Goiás (GO)/ Brasil	24450.1	-16.830919	-49.83478
Melo - Uruguai	27311.17	-16.849611	-49.833577
Clénaga de Oro (Colômbia)	29632.16	-8.869219	-75.656897
Rolim de Moura (RO)/ Brasil	10960.58	-11.744516	-61.648466
Rosário (Argentina)	46448.34	-33.004833	-60.613786
Minerva Biodiesel(GO)/Brasil	33.7	-16.82175	-49.867613
Minerva Casings(SP)/Brasil	25.5	-21.045816	-49.705555
Paranatinga(MT)/Brasil	3561.87	-14.463272	-54.039605
Pilar/Argentina	142.74	-34.423183	-58.967902
Pontevedra/Argentina	14839.37	-34.748316	-58.683111
San Antonio/Paraguai	13528.09	-25.422777	-57.569722
Bucaramanga / Colômbia	14650.34	7.12539	-73.1198
Escritório São Paulo (CPT)	0.02	23.351686	46.404939
Minerva Beef Shop (BSP)	10.07	20.33646	48.244511
Minerva Leather	1.51	20.311346	48.335386
Venado Tuerto / Argentina	3586.05	33.43285	61.59827

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

Activity	Scope 1 emissions (metric tons CO2e)
Agricultural	1523.29
Stationary combustion	55263.98
Mobile Combustion	1428.23
Fugitives	1275.85
Solid waste and effluents	223623.51

C-AC7.4/C-FB7.4/C-PF7.4**(C-AC7.4/C-FB7.4/C-PF7.4) Do you include emissions pertaining to your business activity(ies) in your direct operations as part of your global gross Scope 1 figure?**

Yes

C-AC7.4b/C-FB7.4b/C-PF7.4b

(C-AC7.4b/C-FB7.4b/C-PF7.4b) Report the Scope 1 emissions pertaining to your business activity(ies) and explain any exclusions. If applicable, disaggregate your agricultural/forestry by GHG emissions category.

Activity

Processing/Manufacturing

Emissions category

<Not Applicable>

Emissions (metric tons CO2e)

283144.86

Methodology

Region-specific emissions factors

Please explain

Total Scope 1 emissions

C7.5

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

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Brazil	21477.07	0
Argentina	24615.77	0
Colombia	4968.19	0
Paraguay	0	0
Uruguay	2032.38	0

C7.6

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

By business division

By facility

By activity

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)
Distribution center	418.42	0
Food Industry	47997.52	0
Administrative unit	3.28	0
Minerva Foods Business	64.74	0
Processed	4609.46	0

C7.6b

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

Facility	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Araguaína (TO)/ Brasil	2029.07	0
Barretos (SP) / Brasil	3024.29	0
Canelones (Uruguai)	651.11	0
Carrasco (Uruguai)	605.8	0
Araraquara (SP)/ Brasil	418.42	0
Janaúba (MG)/ Brasil	1689.44	0
José Bonifácio (SP)/ Brasil	1869.16	0
Minerva Fine Foods (Barretos - SP)/ Brasil	2114.53	0
Mirassol d'Oeste (MT)/ Brasil	945.71	0
Palmeiras de Goiás (GO) / Brasil	4833.44	0
Melo (Uruguai)	775.47	0
Ciénaga de Oro (Colômbia)	3044.3	0
Rolim de Moura (RO)/ Brasil	2649.33	0
Rosário (Argentina)	18572.56	0
Paranatinga (MT)/Brasil	1823.32	0
Pilar/Argentina	2494.93	0
Pontevedra/Argentina	2027.86	0
Assunção Planta 2 (PRY)	0	0
Assunção Planta 8 (PRY)	0	0
Bucaramanga / Colômbia	1923.89	0
Escritório Corporativo	0	0
Escritório São Paulo	3.28	0
Minerva Beef Shop	59.99	0
Minerva Leather	4.75	0
Venado Tuerto / Argentina	1520.42	0
San Antonio Planta 3 (PRY)	0	0
Belén / Paraguai	0	0
Minerva Biodiesel(GO)/Brasil	0	0
Minerva Casings(SP)/Brasil	0	0

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)
Acquisition of electricity	53093.41	0

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?
Increased

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	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	121012.33	Increased	77.1	Biogenic emissions related to the consumption of biomass in boilers and ethanol in own transportation fleet 2021 biogenic emissions = 278213.01 (A) 2020 biogenic emissions = 157200.68 (B) (A) - (B) = 121012.33 (A)-(B)/(B)*100 = 77%
Other emissions reduction activities	53093.41	Decreased	100	I-Rec purchase.
Divestment		<Not Applicable >		
Acquisitions		<Not Applicable >		
Mergers		<Not Applicable >		
Change in output	49870.2	Increased	21.4	Increase in scope 2 emissions due to return of units to operations and increased slaughter. Scope 1 emission 2021 = 283144,86,41 (A) Scope 1 emission 2020 = 233274,66 (B) (A)-(B) = 49870.2 (A)-(B)/(B)*100 = 21.4
Change in methodology	38502.6	Increased	263.9	Increase in scope 2 emissions due to the increase in the average annual emission factor from the acquisition of electricity from the national grid (Brazil, Argentina, and Uruguay). For instance, only in Brazil there were a 105% increase in the emission factor of Brazilian electricity generation (location based). Scope 2 emission 2021 = 53093,41 (A) Scope 2 emission 2020 = 14590,81 (B) (A)-(B) = 38502.6 (A)-(B)/(B)*100 = 263.9%
Change in boundary		<Not Applicable >		
Change in physical operating conditions		<Not Applicable >		
Unidentified		<Not Applicable >		
Other	49870.2	Increased	21.2	Includes Solid waste and liquid effluents, Agricultural, Stationary combustion, Mobil combustion, Fugitive emissions, The variation is due to improve an accuracy in the emission calculation and increased of the production. Emission 2021 = 285.165,86 (A) Emission 2020 = 235.294,66 (B) (A)-(B) = 49.871,20 (A)-(B)/(B)*100 = 21,20%

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 10% but less than or equal to 15%

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	Yes
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)	Unable to confirm heating value	697434.75	237991.92	935426.67
Consumption of purchased or acquired electricity	<Not Applicable>	388610.02	0	388610.02
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<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>	0	<Not Applicable>	0
Total energy consumption	<Not Applicable>	1086044.77	237991.92	1324036.69

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	No
Consumption of fuel for the generation of steam	Yes
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

C8.2c

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

Sustainable biomass

Heating value

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

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Other biomass

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

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

696682.29

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Tallow and Wood - Boiler

Other renewable fuels (e.g. renewable hydrogen)

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

752.46

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

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Ethanol - Fleet

Coal

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

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

23754.78

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Boiler

Oil

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

2619.02

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

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Fleet and mobile combustion

Gas

Heating value

Total fuel MWh consumed by the organization
208358.79

MWh fuel consumed for self-generation of electricity
0

MWh fuel consumed for self-generation of heat
3831.69

MWh fuel consumed for self-generation of steam
202556.72

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

MWh fuel consumed for self- cogeneration or self-trigeneration
<Not Applicable>

Comment

Heat - Cook Steam - Boiler, 1970.38 – fork- lift, pump etc

Other non-renewable fuels (e.g. non-renewable hydrogen)

Heating value

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

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

MWh fuel consumed for self- cogeneration or self-trigeneration
<Not Applicable>

Comment

Total fuel

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization
214986.63

MWh fuel consumed for self-generation of electricity
1636.65

MWh fuel consumed for self-generation of heat
3831.69

MWh fuel consumed for self-generation of steam
922993.79

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

MWh fuel consumed for self- cogeneration or self-trigeneration
<Not Applicable>

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	438.87	438.87	438.87	438.87
Heat				
Steam	922412.36	922412.36	696682.29	696682.29
Cooling				

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.

Sourcing method

Default delivered electricity from the grid (e.g. standard product offering by an energy supplier) from a grid that is 95% or more low-carbon and where there is no mechanism for specifically allocating low-carbon electricity

Energy carrier

Electricity

Low-carbon technology type

Wind

Country/area of low-carbon energy consumption

Brazil

Tracking instrument used

I-REC

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

169611.3

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

Brazil

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

2021

Comment

Brazil I-REC

Sourcing method

Default delivered electricity from the grid (e.g. standard product offering by an energy supplier), supported by energy attribute certificates

Energy carrier

Electricity

Low-carbon technology type

Large hydropower (>25 MW)

Country/area of low-carbon energy consumption

Paraguay

Tracking instrument used

No instrument used

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

69179.04

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

Paraguay

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

2021

Comment

Paraguay – Low emission energy generation – 100% from Large hydropower Itaipu

Sourcing method

Default delivered electricity from the grid (e.g. standard product offering by an energy supplier) from a grid that is 95% or more low-carbon and where there is no mechanism for specifically allocating low-carbon electricity

Energy carrier

Electricity

Low-carbon technology type

Large hydropower (>25 MW)

Country/area of low-carbon energy consumption

Brazil

Tracking instrument used

I-REC

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

218998.72

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

Brazil

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

2021

Comment

Argentina, Colombia and Uruguay – I-REC

(C8.2g) Provide a breakdown of your non-fuel energy consumption by country.

Country/area

Brazil

Consumption of electricity (MWh)

169611.3

Consumption of heat, steam, and cooling (MWh)

0

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

169611.3

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Argentina

Consumption of electricity (MWh)

80181.66

Consumption of heat, steam, and cooling (MWh)

0

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

80181.66

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Colombia

Consumption of electricity (MWh)

24473.85

Consumption of heat, steam, and cooling (MWh)

0

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

24473.85

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Paraguay

Consumption of electricity (MWh)

69179.04

Consumption of heat, steam, and cooling (MWh)

0

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

69179.04

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Uruguay

Consumption of electricity (MWh)

45164.17

Consumption of heat, steam, and cooling (MWh)

0

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

45164.17

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

C9. Additional metrics

C9.1

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

Description

Energy usage

Metric value

0.23

Metric numerator

388,610 MWh (Minerva Foods' energy consumption)

Metric denominator (intensity metric only)

1,624,668 Ton of finished product

% change from previous year

6.1

Direction of change

Decreased

Please explain

Very volatile scenario with important changes in the production mix, directly impacting energy consumption. Despite the increase in energy consumption, the intensity metric decreased.

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	Third-party verification or assurance process in place

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

1063996 - 01 - 1063996 - 01 - Relatório de Verificação Inventário de GEE 2021_ING.pdf

Page/ section reference

1,2,3

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

21

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

1063996 - 01 - 1063996 - 01 - Relatório de Verificação Inventário de GEE 2021_ING.pdf

Page/ section reference

1,2,3

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

C10.1c

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

Scope 3 category

Scope 3: Purchased goods and services

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

1063996 - 01 - 1063996 - 01 - Relatório de Verificação Inventário de GEE 2021_ING.pdf

Page/section reference

1,2,3

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

12

Scope 3 category

Scope 3: Upstream transportation and distribution

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

1063996 - 01 - 1063996 - 01 - Relatório de Verificação Inventário de GEE 2021_ING.pdf

Page/section reference

1,2,3

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

7

Scope 3 category

Scope 3: Business travel

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

1063996 - 01 - 1063996 - 01 - Relatório de Verificação Inventário de GEE 2021_ING.pdf

Page/section reference

1,2,3

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

96

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?

The strategy is sectoral engagement through the Brasileira Association of Meat Exporting Industries (ABIEC) to discuss this topic and make a decision that will represent this industry sector.

C11.2

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

Yes

C11.2a

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

Credit origination or credit purchase

Credit origination

Project type

Biomass energy

Project identification

Minerva Biodiesel production unit, known as Minerva Biodiesel, has joined RenovaBio, a national decarbonization program in the fuel sector, which aims to stimulate increased production and greater participation of biofuels in the country's energy matrix. Decarbonization Credits - CBIOS, are assets that will have a market value and companies that have such credit, such as Minerva Biodiesel, will be able to trade these assets on the Stock Exchange (B3).

Verified to which standard

Other, please specify (Renovabio)

Number of credits (metric tonnes CO2e)

30628

Number of credits (metric tonnes CO2e): Risk adjusted volume

30628

Credits cancelled

No

Purpose, e.g. compliance

Not applicable

Credit origination or credit purchase

Credit purchase

Project type

Forests

Project identification

In 2021 Minerva Foods created MyCarbon, a subsidiary dedicated to develop carbon projects and trading carbon credits, products and services related to the transition to a low-carbon economy. In addition, MyCarbon works in partnership with the Renove Program (read more about in Sustainable beef) to help farmers adopt sustainable farming practices, supporting increased natural resource efficiency and low-carbon farming. Through MyCarbon, the company has acquired carbon credits from different certified projects in Brazil, Paraguay, Uruguay and Argentina. The acquisition of high-quality carbon credits support forest conservation in the Amazon, reforestation in the Chaco region, and the adoption of renewable energies. MyCarbon plans are to work with partners to start originating carbon credits, either via Renove Program (supply chain), and other carbon market players.

Verified to which standard

VCS (Verified Carbon Standard)

Number of credits (metric tonnes CO2e)

1477506

Number of credits (metric tonnes CO2e): Risk adjusted volume

0

Credits cancelled

No

Purpose, e.g. compliance

Voluntary Offsetting

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 suppliers

Yes, other partners in the value chain

C12.1a

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

Type of engagement

Engagement & incentivization (changing supplier behavior)

Details of engagement

Offer financial incentives for suppliers who reduce your operational emissions (Scopes 1 & 2)

% of suppliers by number

50

% total procurement spend (direct and indirect)

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

98.4

Rationale for the coverage of your engagement

Minerva Foods' has determined its commitments to sustainability, addressing climate change and protecting ecosystems, as these themes permeate the Company's sustainability strategy and are essential for the perpetuity of its business. Most of our scope 3 emission is Category 1 related to cattle purchases (enteric fermentation and management of cattle lifetime waste). Thus, Minerva Foods' aims to support farmers in implementing practices that sequester and store carbon, protect biodiversity and increase climate resilience. To this end, Minerva Foods' created the Renove Program in 2021, to promote engagement and collaboration with beef suppliers in low-carbon practices and adoption of internationally recognized technologies and methodologies to measure carbon emissions from cattle-farming land. Minerva Foods' established that 50% of its beef suppliers participate in the Renove Program by 2030.

Impact of engagement, including measures of success

In its first year of implementation Renove worked on three projects to engage producers around low-carbon cattle farming that involved 91 properties in 2021. The Program addresses the main issue of concern related to climate change mitigation in the sector (beef production), region (Latin America) and operation (suppliers of cattle): land use, land use change and forestry (LULUCF). The measure of success is to produce cattle with lower emissions (threshold) than the benchmarking chosen for each project. The first project partnered with EMBRAPA measured the net GHG emissions on 23 properties in the 20/21 season, with assessment tools and protocols based on the GHG Protocol and the definitions of UNFCCC. 22 of the sampled ranches emitted lower GHG per thousand head of cattle than the average for Brazilian cattle farming (benchmarking for this project), and nearly half managed to sequester carbon in their production system, making them carbon negative. The initial results show that the project's farms, which supplied more than 50,000 animals to Minerva Foods, has been adopting sustainable practices that sequester carbon, especially in soil management to avoid the degradation of pastureland and to implement integrated systems. In partnership with Imaflora, the Renove Program's second project was developed in 25 farms in South American countries. Net GHG emissions and emissions intensity from beef production were calculated. The results were the only results from the sector to be posted on the Carbon on Track platform. The study covered 185 thousand hectares of pastureland and more than 232 thousand head of cattle. It found that the farms emitted an average of 44% less emissions in beef production than the global average, which is estimated at 19.9tCO₂e per ton of meat produced, according to an analysis of more than 30 scientific papers (benchmarking for this project). This performance was thanks to the good practices adopted, including Integrated Crop-Livestock-Forest (ICLF), soil conservation and pastureland management practices and production intensification systems. The practices enhance the capacity to sequester carbon into the ground in sufficient levels to offset production emissions.

Comment

C12.1d

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

Toward the end of 2021, Minerva Foods' conducted a new materiality assessment to identify and prioritize topics that are material to the Company's ESG reporting and strategy, based on industry trends, social and environmental challenges, and the Company's impacts from the point of view of its stakeholders. Conducted with support from specialized consultants, the assessment was based on the GRI and AA1000 AccountAbility Principles, covering the social, economic, and environmental impacts that influence stakeholder perceptions and decisions. The exercise consisted of four steps—identification, prioritization, analysis and validation—and included: i) A review of internal documents (policies, risk assessment reports, studies, notices and presentations), market research, and benchmarking against other global and regional industry players ; ii) Stakeholder identification and engagement, including a panel with management-level employees (16 participants), an online survey (employees, customers, investors, NGOs and trade associations) with 297 responses, and interviews with internal (7) and external (5) executives as priority stakeholders. The stakeholders identified for this stage were customers, investors, the third sector (NGOs), trade associations, and employees; iii) Review and prioritization of the material topics according to their impacts on society and the ranking scores given by stakeholders; iv) Validation of the matrix by senior leadership. Deforestation, biodiversity and GHG emissions among others were considered material themes.

In addition, Minerva Foods is involved in partnerships and coalitions aimed at addressing climate change, combating deforestation and driving sustainability in the sector, including the United Nations Global Compact, to which in 2021, the company became signatory. Furthermore, the company's commitment to the Sustainable Development Goals (SDGs), adherence to the Pact formalized attention to the ten principles that address anti-corruption, labor relations, environment and human rights issues. Moreover, the company participates as a member of the Global Roundtable for Sustainable Beef (GRSB), made up of experts, academics and large companies from four continents, in which the company has the role of sharing management practices. maintain a constructive dialogue on global industry paths and strengthen beef industry sustainable best practices. The Company's participation in the global table is in line with the company's strategy of dialogue with stakeholders for the production of legal and sustainable livestock.]The company is also part of the Sustainable Livestock Working Group (GTPS), where it has the role of contributing to the mission to promote the sustainable development of Brazilian livestock by solving the challenges present in the sector. In addition, Minerva Foods participates in regional tables in Brazil, Colombia and Paraguay, the Alliance of Investors for Emerging Markets, the Working Group of Indirect Suppliers. The company also uses in its policy the Monitoring Protocol for Cattle Suppliers in the Amazon – in partnership with the Federal Public Ministry and Imaflorea, using the protocol criteria in socio-environmental analyses.

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

Direct or indirect engagement that could influence policy, law, or regulation that may impact the climate

Yes, we engage directly with policy makers

Yes, we engage indirectly through trade associations

Yes, we engage indirectly by funding other organizations whose activities may influence policy, law, or regulation that may significantly 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?

Yes

Attach commitment or position statement(s)

Compromisso Minerva com Sust.pdf

Describe the process(es) your organization has in place to ensure that your engagement activities are consistent with your overall climate change strategy

In 2021, Minerva Foods became a signatory to the United Nations (UN) Global Compact, the largest sustainability movement on the planet, comprising strategic policy initiatives for companies committed to developing universal principles of Human Rights, Labor, Environment and Anti-corruption, in addition to supporting the achievement of the 17 Sustainable Development Goals (SDGs) established by the UN by 2030. The move is part of the Company's sustainability strategy and reinforces the work carried out in recent years with a focus on promoting the ESG agenda in all links in the chain. Minerva Foods also actively participates in the Emerging Markets Investor Alliance initiative, the Global Mesa da Carne Sustentável (GRSB), Mesa de Ganadería Sostenible de Colombia, Mesa Paraguaya de Carne Sostenible (MPCS) and in Brazil the Livestock Working Group Sustainable (GTPS).

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?

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

Emissions trading schemes

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

RenovaBio: a national program for the decarbonization of the fuel sector, which aims to encourage increased production and greater participation of Biofuels in the country's energy matrix.

Policy, law, or regulation geographic coverage

National

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

Brazil

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

Support with no exceptions

Description of engagement with policy makers

RenovaBio: By joining the program, Minerva Biodiesel is authorized to negotiate decarbonization credits, the C-BIOS, Minerva Biodiesel has now joined a nation-wide program to reduce GHG emissions, launched by the Federal Government as part of its commitments as a signatory of the Paris Agreement. CBios credits also amplify the Company's ability to generate economic benefits, attract investors and gain faster access to more competitive finance.

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

<Not Applicable>

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

Yes, we have evaluated, and it is aligned

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

Methane emissions

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

United Nations – Pacto Global: The Company has endorsed our commitment and ongoing support of the Ten Principles of the United Nations Global Compact and the Sustainable Development Goals (SDGs).

Policy, law, or regulation geographic coverage

Global

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

<Not Applicable>

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

Support with no exceptions

Description of engagement with policy makers

United Nations – Pacto Global: In 2021 the Company joined the United Nations Global Compact. Coupled with Minerva Foods commitment to the Sustainable Development Goals (SDGs), the Company's support for the Global Compact formalizes its efforts across ten principles in the areas of anti-corruption, labor, environment and human rights.

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

<Not Applicable>

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

Yes, we have evaluated, and it is aligned

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

Traceability requirements

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

United Nations – Pacto Global: In 2021 the Company joined the United Nations Global Compact. Coupled with Minerva Foods commitment to the Sustainable Development Goals (SDGs), the Company's support for the Global Compact formalizes its efforts across ten principles in the areas of anti-corruption, labor, environment and human rights.

Policy, law, or regulation geographic coverage

Global

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

<Not Applicable>

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

Support with no exceptions

Description of engagement with policy makers

United Nations – Pacto Global: In 2021 the Company joined the United Nations Global Compact. Coupled with Minerva Foods commitment to the Sustainable Development Goals (SDGs), the Company's support for the Global Compact formalizes its efforts across ten principles in the areas of anti-corruption, labor, environment and human rights.

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

<Not Applicable>

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

Yes, we have evaluated, and it is aligned

C12.3b

(C12.3b) Provide details of the trade associations your organization 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 (Governance Council of the Brazilian Meat Exporting Industry Association (ABIEC))

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

Consistent

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

ABIEC publishes on its institutional website data regarding the reduction in the area occupied by cattle, despite the increase in meat production, the number of hectares of deforested areas, hectares of pasture converted to other activities and degraded hectares that are in different stages of regeneration, as well as the volume of Brazilian territory occupied by native forests. ABIEC also participates in the International Meat Secretariat (IMS) and is part of its Board of Directors. To deal with issues that are vital to the international meat production sector, IMS has several committees, including the Sustainable Meat Committee. In addition, IMS also proposed in 2015, by signing the Paris Agreement, a commitment, to which ABIEC is a signatory, to mitigate climate change through a series of initiatives and practices that can contribute to reducing emissions greenhouse gases and to increase the efficiency of production with regard to environmental preservation.

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

72434

Describe the aim of your organization's funding

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

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify (Brazilian Association of Listed Companies (ABRASCA))

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

Consistent

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

With the vision of acting as a catalyst for the discipline of the Issuing Companies to rationalize the costs of regulatory and self-regulatory compliance, ABRASCA promotes a series of events and training related to the environmental, social and governance pillars, such as climate change practices, its adherence to strategic frameworks with TCFD, green funds webinar, ESG criteria, among others.

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

0

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?

Yes, we have evaluated, and it is aligned

C12.3c

(C12.3c) Provide details of the funding you provided to other organizations in the reporting year whose activities could influence policy, law, or regulation that may impact the climate.

Type of organization

Other, please specify (Global Roundtable for Sustainable Meat, the Global Roundtable for Sustainable Beef (GRSB))

State the organization to which you provided funding

Minerva Foods has been part of the Global Roundtable for Sustainable Meat, the Global Roundtable for Sustainable Beef (GRSB) for 3 years already.

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

30640

Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate

Comprised of specialists, academics and large companies from four continents, GRSB aims to share management practices and maintain a constructive dialogue on the paths of the global industry. As a member, Minerva Foods improves the representativeness of the South American continent, which is the largest meat producer in the world, in global discussions. The company works with great transparency in the face of chain challenges and actively participates in investors and shareholders forums. It is worth highlighting the participation of sustainability guidelines in meetings with investors, in Brazil and abroad, and also with institutions such as the Emerging Markets Investors Alliance, where Minerva Foods participates in roundtables about sustainability in the beef value chain. In addition, the Company is a member of the Board of Directors of GTPS - Sustainable Livestock Working Group, a member of MPCS - Mesa Paraguaya de Carne Sostenible, a member of the Ganadería Sostenible de Colombia Bureau, as well as class associations such as ABIEC - Associação Brasileira das Meat Exporting Industries and Paraguayan Meat Chamber.

Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

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

Status

Complete

Attach the document

Formulário de Referência 2022.pdf

Page/Section reference

4.2 Description of Main Market Risks, page 53 5.1 Risk Management Policy, page 97 7.3 Information About Products And Services Relating To Operating Segments, page158 7.5 - Relevant Effects of State Regulation on Activities, page 167 7.8 - Social and Environmental Policies, page 177

Content elements

Strategy
Risks & opportunities
Emission targets

Comment

Publication

In voluntary sustainability report

Status

Complete

Attach the document

Minerva_Foods_SR2021_EN_compressed.pdf

Page/Section reference

35 to 46 and 51 to 55

Content elements

Governance
Strategy
Risks & opportunities
Emissions figures
Emission targets

Comment

Publication

In voluntary communications

Status

Underway – previous year attached

Attach the document

RegistroPublico 2020_minerva-foods.pdf

Page/Section reference

all

Content elements

Emissions figures
Other metrics

Comment

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	Yes, both board-level oversight and executive management-level responsibility	Innovation and Sustainability Advisory Board: The Innovation and Sustainability Advisory Board is a non-statutory collegiate advisory body, linked to the Company's Board of Directors, responsible for monitoring and discussing practices related to socio-environmental sustainability, corporate governance and innovation, in order to provide greater transparency, efficiency and assertiveness of Minerva Foods initiatives. The duties of the Advisory Board are based on advising the Board on the analysis of initiatives related to socio-environmental sustainability, corporate governance, research, technological trends and innovations, addressing and suggesting ways to deal with these issues, within the Board's duties and according to best practices, of matters that represent risks to the environment or human rights that may cause considerable impacts on the business, results, relationship with stakeholders and the Company's image, as well as to propose to the Company's Executive Board and, when approved, monitor the preparation and the implementation of policies, programs, strategies and actions related to social and environmental sustainability, corporate governance, research, technological trends and innovations, evaluating their effectiveness in achieving pre-defined objectives, among other objectives. This board meets at least once a month and is composed of 5 members being the CEO, CFO, two independent members and a guest of the Board of Directors. Sustainability Commission aims to drive the sustainability agenda across the organization and assist in decision-making related to environmental, social responsibility and animal welfare issues. In addition, it also assesses the risks and opportunities arising from climate change and splits this assessment into multidisciplinary work groups that determine and implement actions aimed at the topic. The committee also monitors the evolution of these actions through absolute and relative indicators. The Committee is composed by CEO, CFO, CHRO, CTO, Institutional Relations Director, Legal Director, Sustainability Director and Sustainability Management.	<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	Yes, we have made public commitments and publicly endorsed initiatives related to biodiversity	Commitment to not explore or develop in legally designated protected areas Commitment to respect legally designated protected areas Commitment to no conversion of High Conservation Value areas Commitment to secure Free, Prior and Informed Consent (FPIC) of Indigenous Peoples	SDG

C15.3

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

	Does your organization assess the impact of its value chain on biodiversity?	Portfolio
Row 1	Yes, we assess impacts on biodiversity in our upstream value chain only	<Not Applicable>

C15.4

(C15.4) 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	Land/water protection Land/water management Education & awareness

C15.5

(C15.5) 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	Yes, we use indicators	Pressure indicators Response indicators

C15.6

(C15.6) 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
In mainstream financial reports	Risks and opportunities Biodiversity strategy	Page 180 Formulário de Referência 2022.pdf
In voluntary sustainability report or other voluntary communications	Risks and opportunities Biodiversity strategy	15,36,40,52

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.

No further information.

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	Executive director	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.

Minerva Foods is South America's largest beef exporter and one of the region's leading high quality beef producers. The Company operates in the production and sale of beef, processed foods and byproducts, operating out of Brazil, Argentina, Chile, Colombia, Paraguay and Uruguay, accessing markets in over 100 countries.

It is evident to the Company that the sustainability of its business depends on the sustainability of the ecosystems which support agricultural production. With this mindset, a commitment to the sustainable future of the planet's food supply is at the forefront of its objectives, and regards Sustainability among its company values, together with Results Drive, Commitment, Innovation, and Acknowledgement.

To ensure the best prioritization of initiatives and in the development of partnerships, the Minerva Foods ESG (environmental, social and corporate governance) agenda was organized into three pillars: Dedication to the Planet, Prosperity of Our People, and Product Quality and Respect for Life.

Upon the pillar Dedication to the Planet, the Company's focus is on acting now to prevent the worst effects of climate change, while supporting rural producers in the adoption of practices that sequester and store carbon, protect biodiversity, and increase resilience. To launch its efforts, Minerva Foods announced its Commitment to Sustainability back in 2021, detailing initiatives focused on three key areas to achieve net zero emissions by 2035. The first is related to the environmental efficiency of its operations, the second aims to combat illegal deforestation, and the third is the Remove Program, which provides support to the production chain in the adoption of low carbon emission practices.

More information about Minerva is available in the 2021 Sustainability Report, on our institutional website and on the investor relations website

SC0.1

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

	Annual Revenue
Row 1	26965360

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
Customer base is too large and diverse to accurately track emissions to the customer level	Minerva Foods is a leading producer of high-quality beef and the #1 exporter of beef from South America. The company operates in the beef and processed foods segments, selling products to over 100 countries. We have significant presence in Brazil, Argentina, Chile, Colombia, Paraguay and Uruguay, operating some 25 production facilities and 3 food processing plants. To segregate emissions by customers, a life cycle analysis of the products most supplied by Minerva Foods is necessary to survey the amount of emissions emitted in the manufacturing process.

SC1.4

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

No

SC1.4b

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

We currently have no plans to develop capabilities to allocate emissions to customers as to date there has been no demand for this practice.

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?

No

SC4.1

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

No, I am not providing data

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