

C0. Introduction

C0.1

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

SGL Carbon is a technology-based and a global leader in the development and manufacture of carbon-based solutions. Our materials and products made from specialty graphite, carbon fibers and composites serve many industries that are shaping the trends of the future: climate friendly mobility, semiconductor technology, LED, solar and wind energy, and the manufacture of lithium-ion batteries. We also develop solutions for the chemical sector and numerous industrial applications that are both forward-looking and reliable. We are driven to grow with products and technologies that benefit society and reduce environmental impact.

With around 4,700 employees at 29 sites in Europe, North America and Asia, we generated sales of over 1.1 billion euros in fiscal 2022.

C0.2

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

Reporting year

Start date

January 1 2022

End date

December 31 2022

Indicate if you are providing emissions data for past reporting years

Yes

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

3 years

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

3 years

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

1 year

C0.3

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

- Austria
- China
- France
- Germany
- India
- Italy
- Japan
- Poland
- Portugal
- Spain
- United Kingdom of Great Britain and Northern Ireland
- United States of America

C0.4

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

EUR

C0.5

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

Financial control

C-CH0.7

(C-CH0.7) Which part of the chemicals value chain does your organization operate in?

Row 1

Bulk organic chemicals

Bulk inorganic chemicals

Other chemicals

Other, please specify (Graphite Materials and Systems, Carbon Fibers and Composites.)

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, an ISIN code	DE0007235301

C1. Governance

C1.1

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

Yes

C1.1a

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

Position of individual or committee	Responsibilities for climate-related issues
Chief Executive Officer (CEO)	At SGL Carbon, all our ESG-related activities are reported into the ESG Steering Committee. The CEO is the Chairman of the ESG Steering Committee. In this capacity, the CEO oversees and approves ESG targets, the status of target achievement and the status of initiative planning and implementation.
Chief Financial Officer (CFO)	The CFO is member of the ESG Steering Committee and supports the CEO in his/her Chairman role.
Board Chair	The Chairwoman and two out of eight members of the Supervisory Board were assigned to sustainability themes. According to SGL Carbon's Corporate Governance Declaration, at least two Supervisory Board members should have expert knowledge in the field of accounting or auditing, including sustainability reporting. In addition, members of the Supervisory Board should have knowledge of sustainability issues important to the company.
Director on board	Two out of eight members of the Supervisory Board were assigned to sustainability themes. For details, please compare above ("Board Chair").

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	Reviewing and guiding annual budgets Overseeing major capital expenditures Overseeing acquisitions, mergers, and divestitures Reviewing innovation/R&D priorities Overseeing and guiding employee incentives Reviewing and guiding strategy Overseeing and guiding the development of a transition plan Monitoring the implementation of a transition plan Overseeing the setting of corporate targets Monitoring progress towards corporate targets Overseeing and guiding public policy engagement Reviewing and guiding the risk management process	<Not Applicable>	The Board of Management serves as the primary decision-making body within the organization. To effectively address ESG and climate-related concerns, the Board of Management is supported by a team of specialists with expertise in various areas, including Energy Management, Environmental Affairs, and Compliance. These ESG-related specialists collaborate closely with the Board of Management to provide valuable insights and guidance on matters pertaining to sustainability, climate change, and environmental stewardship. By leveraging the knowledge and experience of these experts, the Board of Management is equipped to make informed decisions that align with the organization's ESG goals and contribute to positive environmental outcomes.

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	Both the Board of Management and members of SGL Carbon's Supervisory Board possess professional experience in relation to climate-related issues. Recognizing the importance of staying informed and updated, we actively engage in projects and meetings designed to educate and inform our Board members about the latest regulatory and technological advancements. Through these initiatives, we foster a comprehensive understanding of the evolving landscape and discuss the implications these developments may have on SGL Carbon as an organization. By equipping our Board members with relevant knowledge, we enhance their ability to make well-informed decisions and effectively address climate-related challenges.	<Not Applicable>	<Not Applicable>

C1.2

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

Position or committee

Chief Executive Officer (CEO)

Climate-related responsibilities of this position

- Developing a climate transition plan
- Implementing a climate transition plan
- Integrating climate-related issues into the strategy
- Conducting climate-related scenario analysis
- Setting climate-related corporate targets
- Monitoring progress against climate-related corporate targets
- Managing value chain engagement on climate-related issues
- Assessing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

Reports to the board directly

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

Quarterly

Please explain

The highest operational decision-making body of SGL Carbon is the Board of Management of SGL Carbon SE. Due to its strategic importance, we have made the topic of sustainability the responsibility of the highest operational decision-making level. The Board of Management is supported in this area by an ESG Sounding Board made up of the heads of our four business units and various experts in ESG-relevant areas.

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	In the course of 2019, the Supervisory Board has revised the Remuneration System for the Board of Management. The new system did become effective as of 2020. To determine the one-year variable remuneration, the value arising from two financial performance targets will be multiplied by a discretionary performance factor (Discretionary Factor). As part of the Discretionary Factor, the Supervisory Board sets at least three targets in advance for each member of the Board of Management, which play an important role in determining the level of the Discretionary Factor attainment after the performance period has ended and which should also include material sustainability targets. The Supervisory Board will define insofar targets, which are intended to promote the long-term sustained success of the Company, the interests of the shareholders and employees, ecological and social responsibility, or the compliance culture of the Company.

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

Chief Executive Officer (CEO)

Type of incentive

Monetary reward

Incentive(s)

Bonus - % of salary

Performance indicator(s)

Board approval of climate transition plan
Progress towards a climate-related target
Reduction in absolute emissions

Incentive plan(s) this incentive is linked to

Both Short-Term and Long-Term Incentive Plan

Further details of incentive(s)

The Supervisory Board will define insofar targets, which are intended to promote the long-term sustained success of the Company, the interests of the shareholders and employees, ecological and social responsibility, or the compliance culture of the Company. Derived from this, targets should be selected from the following subject areas, at least one of the targets from the area of environment, social responsibility / personnel or from the area of governance / compliance:

Environment (such as development of a sustainability roadmap for the Company, optimization of the use of resources, reduction of emissions); Social responsibility / personnel (such as measures to increase employer attractiveness and employee satisfaction, measures to strengthen the corporate culture and leadership development, promoting diversity and equal opportunity); Governance / Compliance (such as measures to ensure and maintain a compliance management system); Specific operational and/or strategic targets, which are of importance for the long-term and sustainable development of the Company (e.g., targets for growth, digitization, investment and R&D strategy, M&A or financing projects).

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

Entitled to incentive

Chief Financial Officer (CFO)

Type of incentive

Monetary reward

Incentive(s)

Bonus - % of salary

Performance indicator(s)

Board approval of climate transition plan
Progress towards a climate-related target
Reduction in absolute emissions

Incentive plan(s) this incentive is linked to

Both Short-Term and Long-Term Incentive Plan

Further details of incentive(s)

The Supervisory Board will define insofar targets, which are intended to promote the long-term sustained success of the Company, the interests of the shareholders and employees, ecological and social responsibility, or the compliance culture of the Company. Derived from this, targets should be selected from the following subject areas, at least one of the targets from the area of environment, social responsibility / personnel or from the area of governance / compliance:

Environment (such as development of a sustainability roadmap for the Company, optimization of the use of resources, reduction of emissions); Social responsibility / personnel (such as measures to increase employer attractiveness and employee satisfaction, measures to strengthen the corporate culture and leadership development, promoting diversity and equal opportunity); Governance / Compliance (such as measures to ensure and maintain a compliance management system); Specific operational and/or strategic targets, which are of importance for the long-term and sustainable development of the Company (e.g., targets for growth, digitization, investment and R&D strategy, M&A or financing projects).

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

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	1	1	Time frame aligned with enterprise risk management process
Medium-term	2	5	Time frame aligned with enterprise risk management process
Long-term	5		Time frame aligned with enterprise risk management process

C2.1b

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

We identify substantive financial and strategic impacts on the business in two ways: the assessment of single risks as well as the assessment of accumulated risks.

Assessment of single risks: The discussion of climate-related risks is performed within SGL Carbon's risk management system (RMS), a global management instrument with group wide standards that also meets the requirements regarding risk early warning system as stipulated in the German Stock Corporation Act (AktG).

Opportunities and risks are classified in the opportunity and risk classes (ORCs) major, large, significant, moderate and low based on their probable impact on the results of operation, financial position, and net asset. The opportunity and risk classes are calculated based on impact and probability of occurrence.

Risks are distinguished between low-impact risks (€ 2 - <5 million), moderate-impact risks (€ ≥5 - <10 million), significant-impact risks (€ ≥10 - <15 million), large-impact risks (€ ≥15 - <20 million), and major-impact risks (€ ≥20 million). The examination and presentation of the risk impact accounts for measures to reduce risk (net impact).

Probability is the estimated possibility that a risk-generating event might occur. These events are classified using probabilities ranging between low and major: low probability (<15%), moderate probability (≥15% - <25%), significant probability (≥25% - <35%), large probability (≥35% - <45%) and major probability (≥45% - 50%).

In case a probability exceeds 50%, the risk must be considered immediately in regular business and reporting (e.g., is included in the forecast and excluded in risk reporting) and has to be addressed and communicated in the respective management meetings. The risks named here could arise individually or cumulatively.

Monitoring of the adequacy and effectiveness of the Risk Management System shall take place every two years by an external expert. In the years between an external review, an internal review shall be carried out by the SGL Group Internal Audit. In 2022, the RMS was certified by KPMG based on the standards IDW PS 340 and IDW PS 981. The Supervisory Board and the Audit Committee carry out their control functions and receive a quarterly risk report from the Board of Management in which the risk situation is summarized. Top 10 strategic, operational and top non-financial risks are considered as substantive.

In 2022, SGL Carbon measured the accumulated risks against the risk-bearing capacity of the company: Risks – also in an accumulated view – must not exceed the risk level acceptable for the Company. SGL decided to use Liquidity as its criterion to evaluate the acceptable risk level. This means that the accumulated, potentially materialized risks must not threaten the going concern of the Company. The Board of Management needs to regularly review the criteria (now Liquidity) and to reconfirm it every three years.

Regularly, the risks are aggregated based on a defined mechanism with a qualitative assessment of the interdependencies and measured against the liquidity level, to verify that the risk level is acceptable. This is done regularly in the course of the reporting process which is defined by this policy. Exceeding the acceptable risk level is considered as substantive impact on the business.

C2.2

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

Value chain stage(s) covered

Direct operations
Upstream
Downstream

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

Annually

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

The risk officers carry out a comprehensive risk inventory once a year as part of the budgeting process. This also includes risks from non-financial matters as environmental, social and governance (ESG) issues. Individual risks exceeding defined value limits are systematically recognized and measured and then uniformly aggregated. The risk inventory covers the entire planning horizon of five years. Opportunities, on the other hand, are only recognized for the current year. Measures to counteract identified risks are also specified. The risk assessment is then updated on a quarterly basis. Material new risks that threaten the company as a going concern are immediately reported to the Board of Management or Group Controlling via ad-hoc reporting, regardless of the defined reporting intervals.

Climate-related risks and opportunities can be part of different of our risk assessment categories, such as market, customer, raw material/energy, and production. For example, impacts from flooding or thunderstorms would be identified in production, whereas the failure of a supplier due to environmental impacts or due to climate-related regulations would be identified in the raw materials/energy category. Risks are identified on a product group, business line or site level. This way, it is assured that differences between the businesses are considered and that subject matter experts that are closest to the potential risks are responsible for their identification. All risks and opportunities (incl. all climate-related risks) and their assessments are in the accountability of the Business Unit chairmen and Corporate Function heads and are reviewed by the Business Units' management teams as well as by the Board of Management. We also report on our opportunities and risks in our Annual Report.

C2.2a

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

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	SGL is an energy- and emissions-intensive company and is directly affected by current and emerging regulation targeting energy use and efficiency as well as reduction of emissions. Such regulation can result in significant cost rises for the company. Monitoring and following current regulations are therefore important for SGL and it is covered by our Corporate Functions Production, Technology, Safety and Environment (PTSE), and Group Purchasing. Insights are fed into the risk management process.
Emerging regulation	Relevant, always included	SGL is an energy- and emissions-intensive company and is directly affected by current and emerging regulation targeting energy use and efficiency as well as reduction of emissions. Such regulation can result in significant cost rises for the company. Emerging regulations may create the necessity to replace raw materials, develop recycling options for products, reduce the CO2-footprint etc.. It is therefore accounted for in different risk categories from markets to production. Therefore, anticipating and preparing for emerging regulations is taken care of by our Corporate Functions Production, Technology, Safety and Environment (PTSE) and Compliance. Insights are fed into the risk management process.
Technology	Relevant, sometimes included	New technologies in SGL's industry may result in substantial changes of production processes and ancillary processes. SGL needs to be aware of such changes to maintain and improve its competitive position. Technologies used differ significantly between our business units and product lines. Technological developments are taken care of by our Business Units and the findings are fed into the mid- to long-term BU strategies.
Legal	Not relevant, explanation provided	SGL monitors the development of litigation in all areas and geographies relevant to the company. Anchored in our Code of Conduct and supported by Group-wide processes and regulations, compliance with national laws and regulations is an integral part of our activities.
Market	Relevant, sometimes included	Due to this unique material properties, SGL sells to a wide spectrum of industries ranging from the more traditional industrial sector such as the chemical and automotive industry, to promising future growth markets such as electromobility and the fuel cell industry, LED and semiconductor industry, as well as multi industry applications for lightweight construction incl. wind energy. Developments in our customer industries may constitute a risk or an opportunity for parts of our product portfolio, depending on the change in customer demand. Some of these changes may be driven by climate-related aspects (e.g., automotive: trend towards electric vehicles), while other parts of the business are less affected by climate change (e.g., general industrial). Hence, the assessment of climate-related market risks only plays a more important role for the part of business considered to be more exposed to respective changes and market developments are therefore taken care of by our Business Units. The findings are fed into the mid- to long-term BU strategies.
Reputation	Relevant, always included	The SGL risk management approach entails identifying reputation risks associated with each identified risk.
Acute physical	Relevant, always included	SGL operates 29 sites in Europe, North America, and Asia. Acute physical risks from climate change cannot be excluded and therefore need to be assessed for relevance. Physical risks typically depend on the specific location of our sites and are therefore evaluated by the Business Unit's operations teams. Results are fed into the risk management process.
Chronic physical	Relevant, always included	SGL operates 29 sites in Europe, North America, and Asia. Chronic physical risks from climate change cannot be excluded and therefore need to be assessed for relevance. Chronic risks typically depend on the specific location of our sites and are therefore evaluated by the Business Unit's operations teams. Results are fed into the risk management process.

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?

No

C2.3b

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

	Primary reason	Please explain
Row 1	Evaluation in process	In the Risk Management System (RMS) cycle 2022, climate-related risks particularly for emerging legislation and increased legal requirements have been assessed within the non-financial risks reporting matrix. None of the climate-related risks (e.g., greenhouse gas emissions) fell into the ORC classes large or major. Going forward however, SGL Carbon plans to further detail the assessment of climate-related risks particularly for emerging legislation as part of the overall risk management system and in line with the recommendations of TCFD.

C2.4

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

Yes

C2.4a

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

Identifier

Opp1

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Development and/or expansion of low emission goods and services

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Today, semiconductors play a crucial role in a wide range of applications. One particular new type of semiconductor, Silicon Carbide (SiC), has emerged as a key component, enabling power semiconductors to achieve higher performance and improved efficiency. In fact, SiC-based inverters are being hailed as game-changers due to their advantages in terms of reduced weight and size compared to traditional Silicon-based semiconductors. As we look to the future, SiC power semiconductors are poised to drive the trends of digitalization and climate protection.

The market for SiC power semiconductors is expected to experience significant growth, with a projected compound annual growth rate (CAGR) of 34% until 2027. By that year, the market size is estimated to reach around 6.5 billion USD. To enable this remarkable market growth, the production of Silicon and Silicon Carbide heavily relies on graphite consumables. These consumables are essential components manufactured by SGL Carbon, playing a pivotal role in facilitating the expansion of the SiC semiconductor market.

Time horizon

Medium-term

Likelihood

Very likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

90000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

SGL Carbon's SiC-related sales amounted to 89mill.€. Until 2027 we assume an average compound annual growth rate of 15% which is expected to result in 2027 sales of approx. 179 mill.€.

Cost to realize opportunity

1

Strategy to realize opportunity and explanation of cost calculation

During the investment phase 2022/2023, we are actively collaborating with our key customers to ensure close alignment. Starting from 2023, we will further enhance our production capacities, supported by the confidence and commitment of our customers to secure capacity assurance. It is important to note that SGL Carbon owns the assets involved in this expansion. Additionally, our business is fortified by long-term contracts, which provide stability and sustainability for our operations.

Comment**Identifier**

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Development and/or expansion of low emission goods and services

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Hydrogen is poised to play a pivotal role in the global energy transition as a clean and sustainable energy carrier. The effective transport and storage of hydrogen necessitate the use of pressure vessels constructed with carbon fibers. Recognizing this growing demand, SGL Carbon is expanding its material portfolio to include a new type of carbon fiber that meets the stringent requirements for high strength in common pressure vessel designs while offering excellent elongation capacity.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure**Cost to realize opportunity**

Strategy to realize opportunity and explanation of cost calculation

SGL Carbon leverages its experience in carbon fiber production and produces its own precursor as well as its own carbon fibers in its European and North American value chain. The development of the new carbon fiber type builds upon the successful 50k fiber portfolio, which is already widely utilized in large-scale production across various industries such as wind energy and automotive sectors. Product properties (i.e., strength and elongation) have been specifically tailored for the application in pressure vessels. Moreover, we support our customers with application knowhow and offer a reliable global value chain including own precursor.

Comment

Identifier

Opp3

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Development and/or expansion of low emission goods and services

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

SGL's graphite business has developed and is further developing a portfolio of battery and energy products and solutions. Main driver is the global growth of electrical vehicles. Products target the following fields of application: Lithium-ion batteries, gas diffusion layer fuel cells and other flow/advanced batteries. SGL Carbon has launched a comprehensive development and industrialization program of innovative anode materials made of synthetic graphite for use in lithium-ion batteries. The program is part of the second European IPCEI (Important Project of Common European Interest) / EUBatIn (European Battery Innovation) program, which aims at a competitive European value chain for lithium-ion batteries based on innovative and sustainable technologies. EU funding was awarded to SGL in March 2021.

Time horizon

Medium-term

Likelihood

Very likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

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

C3. Business Strategy

C3.1

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

Row 1

Climate transition plan

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

Publicly available climate transition plan

Yes

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

We have a different feedback mechanism in place

Description of feedback mechanism

Progress on the development of the climate transition plan has been presented by the company's Board of Management to the Supervisory Board.

Frequency of feedback collection

More frequently than annually

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

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

<Not Applicable>

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

<Not Applicable>

C3.2

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

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

C3.2a

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

Climate-related scenario	Scenario analysis coverage	Temperature alignment of scenario	Parameters, assumptions, analytical choices
Physical climate scenarios Customized publicly available physical scenario	Facility	Unknown	For sites in areas that expect high impact from climate change, we perform qualitative analyses that we also use in the analyses required for the EU Taxonomy regulation.
Transition scenarios Customized publicly available transition scenario	Company-wide	Unknown	We assess economic and financial impacts resulting from the transition to a low-carbon, sustainable economy. Our assessment comprises risks that arise from the efforts to mitigate climate change by reducing greenhouse gas emissions and transitioning away from fossil fuels towards renewable energy sources. Furthermore, we include policy and regulatory changes, technological advancements and expected shifts in market demand.

C3.2b

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

Row 1

Focal questions

What impact and risks related from mid- and long-term climate change do we expect for our site operations?
What actions need to be taken to mitigate impact and risk and/or to adapt to the expected climate change?

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

We have developed insights on impact and risks that serves also as input to our Corporate Risk Management process.

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	Our business units offer and continuously enhance a diverse range of products and services that facilitate sustainable solutions and support climate-friendly industries. These encompass various sectors such as automotive (including e-mobility), aerospace, solar and wind energy, as well as manufacturers of semiconductors, LEDs, and lithium-ion batteries. These offerings contribute to the advancement of environmentally friendly technologies and solutions that aid in the mitigation of climate change.
Supply chain and/or value chain	Evaluation in progress	Evaluation in progress.
Investment in R&D	Yes	The majority of our R&D investments are geared towards the development of sustainable products and solutions.
Operations	Yes	Climate-related risk and opportunities are considered in our investment decisions. Energy efficiency and the reduction of emissions are part of our operations strategy.

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 Indirect costs Capital expenditures Capital allocation	In terms of key growth areas, SGL offers a range of graphite consumables that are essential for the production of Silicon and Silicon Carbide. Silicon Carbide (SiC) plays a crucial role in enabling power semiconductors with enhanced performance and improved efficiency. It is anticipated to be utilized in various sectors experiencing growth, including electric vehicles, industrial applications, and distributed energy systems such as photovoltaic and energy storage. Recognizing the potential in SiC, SGL has made significant investments in expanding its SiC-related capacities. Fuel cell technology is another significant area contributing to sustainable mobility solutions. SGL supplies gas diffusion layers for fuel cells to approximately 200 customers worldwide. With an expected increase in demand, the company has been progressively expanding its production capacity at the Meitingen plant through strategic investment decisions. SGL's plans for revenue growth and cost development are centered around these growth areas. The company is actively preparing its organization by allocating appropriate resources and enhancing capabilities to capitalize on the opportunities presented by these emerging sectors.

C3.5

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

	Identification of spending/revenue that is aligned with your organization's climate transition	Indicate the level at which you identify the alignment of your spending/revenue with a sustainable finance taxonomy
Row 1	Yes, we identify alignment with a sustainable finance taxonomy	At both the company and activity level

C3.5a

(C3.5a) Quantify the percentage share of your spending/revenue that is aligned with your organization's climate transition.

C3.5b

(C3.5b) Quantify the percentage share of your spending/revenue that was associated with eligible and aligned activities under the sustainable finance taxonomy in the reporting year.

Economic activity

Manufacture of renewable energy technologies

Taxonomy under which information is being reported

EU Taxonomy for Sustainable Activities

Taxonomy Alignment

Taxonomy-eligible but not aligned

Financial metric(s)

Turnover

Taxonomy-aligned turnover from this activity in the reporting year (unit currency as selected in C0.4)

<Not Applicable>

Taxonomy-aligned turnover from this activity as % of total turnover in the reporting year

<Not Applicable>

Taxonomy-aligned turnover from this activity that substantially contributed to climate change mitigation as a % of total turnover in the reporting year

<Not Applicable>

Taxonomy-aligned turnover from this activity that substantially contributed to climate change adaptation as a % of total turnover in the reporting year
<Not Applicable>

Taxonomy-eligible but not aligned turnover from this activity in the reporting year (unit currency as selected in C0.4)
90300000

Taxonomy-eligible but not aligned turnover from this activity as % of total turnover in the reporting year
8

Taxonomy-aligned CAPEX from this activity in the reporting year (unit currency as selected in C0.4)
<Not Applicable>

Taxonomy-aligned CAPEX from this activity as % of total CAPEX in the reporting year
<Not Applicable>

Taxonomy-aligned CAPEX from this activity that substantially contributed to climate change mitigation as a % of total CAPEX in the reporting year
<Not Applicable>

Taxonomy-aligned CAPEX from this activity that substantially contributed to climate change adaptation as a % of total CAPEX in the reporting year
<Not Applicable>

Taxonomy-eligible but not aligned CAPEX associated with this activity in the reporting year (unit currency as selected in C0.4)
<Not Applicable>

Taxonomy-eligible but not aligned CAPEX associated with this activity as % of total CAPEX in the reporting year
<Not Applicable>

Taxonomy-aligned OPEX from this activity in the reporting year (unit currency as selected in C0.4)
<Not Applicable>

Taxonomy-aligned OPEX from this activity as % of total OPEX in the reporting year
<Not Applicable>

Taxonomy-aligned OPEX from this activity that substantially contributed to climate change mitigation as a % of total OPEX in the reporting year
<Not Applicable>

Taxonomy-aligned OPEX from this activity that substantially contributed to climate change adaptation as a % of total OPEX in the reporting year
<Not Applicable>

Taxonomy-eligible but not aligned OPEX associated with this activity in the reporting year (unit currency as selected in C0.4)
<Not Applicable>

Taxonomy-eligible but not aligned OPEX associated with this activity as % total OPEX in the reporting year
<Not Applicable>

Type(s) of substantial contribution
<Not Applicable>

Calculation methodology and supporting information

Calculated in line with the EU Taxonomy regulation. For details, please compare annual report 2022 (EU Taxonomy reporting templates).

Technical screening criteria met
Yes

Details of technical screening criteria analysis
Calculated in line with the EU Taxonomy regulation.

Do no significant harm requirements met
No

Details of do no significant harm analysis
Assessment in line with the EU Taxonomy regulation.

Minimum safeguards compliance requirements met
Yes

Details of minimum safeguards compliance analysis
Assessment in line with the EU Taxonomy regulation.

Economic activity

Manufacture of batteries

Taxonomy under which information is being reported

EU Taxonomy for Sustainable Activities

Taxonomy Alignment

Taxonomy-eligible but not aligned

Financial metric(s)

Turnover

Taxonomy-aligned turnover from this activity in the reporting year (unit currency as selected in C0.4)
<Not Applicable>

Taxonomy-aligned turnover from this activity as % of total turnover in the reporting year
<Not Applicable>

Taxonomy-aligned turnover from this activity that substantially contributed to climate change mitigation as a % of total turnover in the reporting year
<Not Applicable>

Taxonomy-aligned turnover from this activity that substantially contributed to climate change adaptation as a % of total turnover in the reporting year

<Not Applicable>

Taxonomy-eligible but not aligned turnover from this activity in the reporting year (unit currency as selected in C0.4)
19200000

Taxonomy-eligible but not aligned turnover from this activity as % of total turnover in the reporting year
1.7

Taxonomy-aligned CAPEX from this activity in the reporting year (unit currency as selected in C0.4)
<Not Applicable>

Taxonomy-aligned CAPEX from this activity as % of total CAPEX in the reporting year
<Not Applicable>

Taxonomy-aligned CAPEX from this activity that substantially contributed to climate change mitigation as a % of total CAPEX in the reporting year
<Not Applicable>

Taxonomy-aligned CAPEX from this activity that substantially contributed to climate change adaptation as a % of total CAPEX in the reporting year
<Not Applicable>

Taxonomy-eligible but not aligned CAPEX associated with this activity in the reporting year (unit currency as selected in C0.4)
<Not Applicable>

Taxonomy-eligible but not aligned CAPEX associated with this activity as % of total CAPEX in the reporting year
<Not Applicable>

Taxonomy-aligned OPEX from this activity in the reporting year (unit currency as selected in C0.4)
<Not Applicable>

Taxonomy-aligned OPEX from this activity as % of total OPEX in the reporting year
<Not Applicable>

Taxonomy-aligned OPEX from this activity that substantially contributed to climate change mitigation as a % of total OPEX in the reporting year
<Not Applicable>

Taxonomy-aligned OPEX from this activity that substantially contributed to climate change adaptation as a % of total OPEX in the reporting year
<Not Applicable>

Taxonomy-eligible but not aligned OPEX associated with this activity in the reporting year (unit currency as selected in C0.4)
<Not Applicable>

Taxonomy-eligible but not aligned OPEX associated with this activity as % total OPEX in the reporting year
<Not Applicable>

Type(s) of substantial contribution
<Not Applicable>

Calculation methodology and supporting information
Calculated in line with the EU Taxonomy regulation. For details, please compare annual report 2022 (EU Taxonomy reporting templates).

Technical screening criteria met
Yes

Details of technical screening criteria analysis
Calculated in line with the EU Taxonomy regulation.

Do no significant harm requirements met
No

Details of do no significant harm analysis
Assessment in line with the EU Taxonomy regulation.

Minimum safeguards compliance requirements met
Yes

Details of minimum safeguards compliance analysis
Assessment in line with the EU Taxonomy regulation.

C3.5c

(C3.5c) Provide any additional contextual and/or verification/assurance information relevant to your organization's taxonomy alignment.

C4. Targets and performance

C4.1

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

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

Abs 1

Is this a science-based target?

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

Target ambition

<Not Applicable>

Year target was set

2021

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Base year

2019

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

90008

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

301733

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

391741

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

100

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

100

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

100

Target year

2025

Targeted reduction from base year (%)

49

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

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

85715

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

240163

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

325878

Does this target cover any land-related emissions?

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

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

Target status in reporting year

Underway

Please explain target coverage and identify any exclusions

Our target is a SGL Carbon Group target.

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

SGL Carbon has set up a dedicated project organization. Key measures include Energy Management according to ISO 50001, the sourcing of electricity from renewable sources and various energy efficiency projects/technologies incl. recuperation of process heat.

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

<Not Applicable>

Target reference number

Abs 2

Is this a science-based target?

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

Target ambition

<Not Applicable>

Year target was set

2021

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Base year

2019

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

90008

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

301733

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

391741

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

100

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

100

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

100

Target year

2038

Targeted reduction from base year (%)

100

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

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

85715

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

240163

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

325878

Does this target cover any land-related emissions?

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

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

Target status in reporting year

Underway

Please explain target coverage and identify any exclusions

Our target is a SGL Carbon Group net-zero target, i.e., residual emissions will require to be compensated.

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

SGL Carbon has set up a dedicated project organization. Key measures include Energy Management according to ISO 50001, the sourcing of electricity from renewable sources, recuperation of process heat and various current and future energy efficiency and climate-neutral technologies (e.g., hydrogen, carbon capture and storage).

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?

Other climate-related target(s)

C4.2b

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

Target reference number

Oth 1

Year target was set

2018

Target coverage

Company-wide

Target type: absolute or intensity

Intensity

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

Energy consumption or efficiency	MWh
----------------------------------	-----

Target denominator (intensity targets only)

Other, please specify (Adjusted sales revenue (excluding price, currency, and other special effects), baseline year 2017)

Base year

2017

Figure or percentage in base year

1.45

Target year

2027

Figure or percentage in target year

1.305

Figure or percentage in reporting year

1.25

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

Target status in reporting year

Underway

Is this target part of an emissions target?

It is not part of an emissions target, but it is contributing to emissions reduction.

Is this target part of an overarching initiative?

Please select

Please explain target coverage and identify any exclusions

We commit to reduce our global energy consumption based on adjusted sales revenue by 1% each year and by 10% through 2027 compared to the 2017 consumption.

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

SGL Carbon has set up a dedicated project organization. Key measures include Energy Management according to ISO 50001, on-site solar power generation, the sourcing of electricity from renewable sources, and recuperation of process heat.

List the actions which contributed most to achieving this target

<Not Applicable>

C4.3

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

Yes

C4.3a

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

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	21	
To be implemented*	7	26
Implementation commenced*	21	46659
Implemented*	31	5477
Not to be implemented	0	

C4.3b

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

Initiative category & Initiative type

Energy efficiency in buildings	Other, please specify (Portfolio of initiatives including several improvements in the areas Heating Ventilation and Air Conditioning, Insulation and Lightning.)
--------------------------------	--

Estimated annual CO2e savings (metric tonnes CO2e)

973

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

Scope 1

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

340000

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

120000

Payback period

<1 year

Estimated lifetime of the initiative

11-15 years

Comment**Initiative category & Initiative type**

Energy efficiency in production processes	Other, please specify (Portfolio of initiatives including several improvements in the areas Automation, Combined heat and power, compressed air, Machine/equipment replacement, process optimization, reuse of steam, reuse of water.)
---	--

Estimated annual CO2e savings (metric tonnes CO2e)

3111

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

Scope 1

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

3100000

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

1250000

Payback period

<1 year

Estimated lifetime of the initiative

6-10 years

Comment**Initiative category & Initiative type**

Waste reduction and material circularity	Waste reduction
--	-----------------

Estimated annual CO2e savings (metric tonnes CO2e)

1359

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

Scope 1

Scope 2 (location-based)

Scope 3 category 1: Purchased goods & services

Voluntary/Mandatory

Voluntary

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

500000

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

1

Payback period

<1 year

Estimated lifetime of the initiative

3-5 years

Comment

Portfolio of process improvements that improved scrap rates and required no separate investments.

C4.3c

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

Method	Comment
Dedicated budget for energy efficiency	SGL has a global team of energy experts guided by the Corporate Energy Management team. At all major European production sites Energy Management is certified according to ISO 50001.
Employee engagement	SGL has implemented an employee suggestion scheme which is well established.
Compliance with regulatory requirements/standards	At SGL, we diligently monitor regulatory changes on a regular basis and proactively take appropriate actions to ensure compliance.

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

The EU Taxonomy for environmentally sustainable economic activities

Type of product(s) or service(s)

Other	Other, please specify (Graphite anode material (GAM) for Lithium-ion batteries)
-------	---

Description of product(s) or service(s)

Our Graphite anode material (GAM) is an essential component for Lithium-ion batteries that determines battery lifetime and performance.

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

No

Methodology used to calculate avoided emissions

<Not Applicable>

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

<Not Applicable>

Functional unit used

<Not Applicable>

Reference product/service or baseline scenario used

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

Explain your calculation of avoided emissions, including any assumptions

<Not Applicable>

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

1.7

Level of aggregation

Product or service

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

The EU Taxonomy for environmentally sustainable economic activities

Type of product(s) or service(s)

Other	Other, please specify (Carbon brushes for wind turbines.)
-------	---

Description of product(s) or service(s)

Carbon brushes are essential components for wind turbines and can demonstrate better lifetime and performance compared to alternative materials.

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

No

Methodology used to calculate avoided emissions

<Not Applicable>

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

<Not Applicable>

Functional unit used

<Not Applicable>

Reference product/service or baseline scenario used

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

Explain your calculation of avoided emissions, including any assumptions

<Not Applicable>

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

0.6

Level of aggregation

Product or service

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

The EU Taxonomy for environmentally sustainable economic activities

Type of product(s) or service(s)

Other	Other, please specify (Carbon fiber materials for wind turbine manufacturing)
-------	---

Description of product(s) or service(s)

Carbon fiber materials for wind turbine manufacturing are essential for large diameter blades.

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

No

Methodology used to calculate avoided emissions

<Not Applicable>

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

<Not Applicable>

Functional unit used

<Not Applicable>

Reference product/service or baseline scenario used

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

Explain your calculation of avoided emissions, including any assumptions

<Not Applicable>

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

6

C5. Emissions methodology

C5.1

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

No

C5.1a

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

Row 1

Has there been a structural change?

No

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

<Not Applicable>

Details of structural change(s), including completion dates

<Not Applicable>

C5.1b

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

	Change(s) in methodology, boundary, and/or reporting year definition?	Details of methodology, boundary, and/or reporting year definition change(s)
Row 1	No	<Not Applicable>

C5.2

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

Scope 1

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

90008

Comment

Scope 2 (location-based)

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

301733

Comment

Scope 2 (market-based)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 1: Purchased goods and services

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

270775

Comment

For calculation details please compare C6.5

Scope 3 category 2: Capital goods

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

11169

Comment

For calculation details please compare C6.5

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

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

75385

Comment

For calculation details please compare C6.5

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)

35796

Comment

For calculation details please compare C6.5

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)

622

Comment

For calculation details please compare C6.5

Scope 3 category 6: Business travel

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

300

Comment

For calculation details please compare C6.5

Scope 3 category 7: Employee commuting

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

Not relevant

Scope 3 category 8: Upstream leased assets

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

Not relevant. We do not have upstream leased assets.

Scope 3 category 9: Downstream transportation and distribution

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

Due to variety of customers, products and applications it is difficult to evaluate or estimate that number.

Scope 3 category 10: Processing of sold products

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

Due to variety of customers, products and applications it is difficult to evaluate or estimate that number.

Scope 3 category 11: Use of sold products

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

Due to variety of customers, products and applications it is difficult to evaluate or estimate that number.

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

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

Due to variety of customers, products and applications it is difficult to evaluate or estimate that number.

Scope 3 category 13: Downstream leased assets

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

We do not have downstream leased assets.

Scope 3 category 14: Franchises

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

We do not have franchises.

Scope 3 category 15: Investments

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

We do not have investments.

Scope 3: Other (upstream)

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

Not applicable.

Scope 3: Other (downstream)

Base year start

January 1 2021

Base year end

December 31 2021

Base year emissions (metric tons CO2e)

0

Comment

Not applicable.

C5.3

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

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

IEA CO2 Emissions from Fuel Combustion

The Greenhouse Gas Protocol: Scope 2 Guidance

Other, please specify (To calculate Scope 3 supply chain emission, "estell 6.1" a methodology and tool developed by the consulting firm Sustain was applied (for details please see C6.5).)

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)

85715

Start date

January 1 2022

End date

December 31 2022

Comment

CO2e emissions were calculated by multiplying the purchased gases and oil (Diesel) with the "UK Government GHG Conversion Factors for Company Reporting", Department for Business, Energy & Industrial Strategy, Gov. UK.

Past year 1

Gross global Scope 1 emissions (metric tons CO2e)

85408

Start date

January 1 2021

End date

December 31 2021

Comment

Calculation consistent to the year 2022.

Past year 2

Gross global Scope 1 emissions (metric tons CO2e)

77691

Start date

January 1 2020

End date

December 31 2020

Comment

Calculation consistent to the year 2022.

Past year 3

Gross global Scope 1 emissions (metric tons CO2e)

90008

Start date

January 1 2019

End date

December 31 2019

Comment

Calculation consistent to the year 2022.

C6.2

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

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

We have no operations where we are able to access electricity supplier emission factors or residual emissions factors and are unable to report a Scope 2, market-based figure

Comment

SGL monitors and discloses both, absolute emissions, and intensity emissions (Scope 1 and 2, excl. process emissions) using location-based emissions factors (country factors, source: IEA).

Scope 2 emissions represent 75% of SGL's total emissions (Scope 1 and 2, 2021 data). However, we only receive actual market-based emissions data from a minority share of our electricity providers. Thus, we are reporting Scope 2 location-based emissions.

The following SGL sites were supplied 100% with renewable electrical energy (status 2022): Wackersdorf (Germany), Innkreis (Austria), Raciborz (Poland), Nowy Sacz (Poland).

C6.3

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

Reporting year

Scope 2, location-based

240163

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

January 1 2022

End date

December 31 2022

Comment

Location-based emissions were calculated by multiplying the third-party electricity purchased with the "Emissions factors 2022" of the International Energy Agency (IEA) and multiplying the third-party steam purchased with the "UK Government GHG Conversion Factors for Company Reporting" of the Department for Business, Energy & Industrial Strategy, Gov. UK.

Past year 1

Scope 2, location-based

251153

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

January 1 2021

End date

December 31 2021

Comment

Calculation consistent to the year 2022.

Past year 2

Scope 2, location-based

240714

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

January 1 2020

End date

December 31 2020

Comment

Calculation consistent to the year 2022.

Past year 3

Scope 2, location-based

301733

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

January 1 2019

End date

December 31 2019

Comment

Calculation consistent to the year 2022.

C6.4

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

Yes

C6.4a

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

Source of excluded emissions

Purchased gasoline

Scope(s) or Scope 3 category(ies)

Scope 1

Relevance of Scope 1 emissions from this source

Emissions are not relevant

Relevance of location-based Scope 2 emissions from this source

<Not Applicable>

Relevance of market-based Scope 2 emissions from this source

<Not Applicable>

Relevance of Scope 3 emissions from this source

<Not Applicable>

Date of completion of acquisition or merger

<Not Applicable>

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

0

Estimated percentage of total Scope 3 emissions this excluded source represents

<Not Applicable>

Explain why this source is excluded

Emissions are calculated but not disclosed as they are not relevant.

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

We collected volumes and converted with DEFRA factors.

Source of excluded emissions

Purchased compressed air.

Scope(s) or Scope 3 category(ies)

Scope 2 (location-based)

Relevance of Scope 1 emissions from this source

<Not Applicable>

Relevance of location-based Scope 2 emissions from this source

Emissions are not relevant

Relevance of market-based Scope 2 emissions from this source

<Not Applicable>

Relevance of Scope 3 emissions from this source

<Not Applicable>

Date of completion of acquisition or merger

<Not Applicable>

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

0

Estimated percentage of total Scope 3 emissions this excluded source represents

<Not Applicable>

Explain why this source is excluded

Emissions are calculated but not disclosed as they are not relevant.

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

We collected volumes, convert into energy and then into CO2e emission with EIA country factors.

Source of excluded emissions

Purchased distance heating.

Scope(s) or Scope 3 category(ies)

Scope 2 (location-based)

Relevance of Scope 1 emissions from this source

<Not Applicable>

Relevance of location-based Scope 2 emissions from this source

Emissions are not relevant

Relevance of market-based Scope 2 emissions from this source

<Not Applicable>

Relevance of Scope 3 emissions from this source

<Not Applicable>

Date of completion of acquisition or merger

<Not Applicable>

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

0.4

Estimated percentage of total Scope 3 emissions this excluded source represents

<Not Applicable>

Explain why this source is excluded

Emissions are calculated but not disclosed as they are not relevant.

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

We collected energy consumptions and converted with DEFRA factors, considering a heat generation with natural gas.

Source of excluded emissions

Process emissions.

Scope(s) or Scope 3 category(ies)

Scope 1

Relevance of Scope 1 emissions from this source

Emissions are relevant but not yet calculated

Relevance of location-based Scope 2 emissions from this source

<Not Applicable>

Relevance of market-based Scope 2 emissions from this source

<Not Applicable>

Relevance of Scope 3 emissions from this source

<Not Applicable>

Date of completion of acquisition or merger

<Not Applicable>

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

Estimated percentage of total Scope 3 emissions this excluded source represents

<Not Applicable>

Explain why this source is excluded

SGL operates a variety of high temperature processes and it is technically very challenging to measure the related Scope 1 process emissions. We have launched projects to collect and validate such emission data. In general, process emissions are significantly below SGL's other Scope 1 and Scope 2 emissions.

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

N.a.

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)

268227

Emissions calculation methodology

Spend-based method

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

0

Please explain

To calculate supply chain emission, "estell 6.1" a methodology and tool developed by the consulting firm Systain was applied. The methodology uses a detailed multi-regional Environmentally Extended Input Output database (EEIO, see also GHG Scope 3 Protocol chapter 7) based on the input-output table of the OECD (<https://www.oecd.org/sti/ind/inter-country-input-output-tables.htm>) - with additional inputs from BEA (www.bea.gov), World Bank indicators and EXIOBASE (www.exiobase.eu).

Activity data were taken from the procurement system of SGL as purchasing volume in EUR differentiated by cost types and country of origin. To determine supply chain emissions procurement volumes by cost type and country were allocated to economic sectors and multiplied with estell's emission factors for each unit of demand in every economic sector and region.

To determine emissions from purchased goods and services, all purchase volumes have been considered except capital goods, energy, transport, business travel and waste related cost types.

estell's emission factors include all upstream (cradle-to-gate) emissions of all the relevant process steps for each good or service. The model uses GWP values from IPCC's AR 5 (2013) for a 100-year time horizon including carbon feedbacks.

Capital goods

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

11618

Emissions calculation methodology

Spend-based method

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

0

Please explain

To calculate supply chain emission, "estell 6.1" a methodology and tool developed by the consulting firm Systain was applied. The methodology uses a detailed multi-regional Environmentally Extended Input Output database (EEIO, see also GHG Scope 3 Protocol chapter 7) based on the input-output table of the OECD (<https://www.oecd.org/sti/ind/inter-country-input-output-tables.htm>) - with additional inputs from BEA (www.bea.gov), World Bank indicators and EXIOBASE (www.exiobase.eu).

Activity data were taken from the procurement system of SGL as purchasing volume in EUR differentiated by cost types and country of origin. To determine supply chain emissions procurement volumes by cost type and country were allocated to economic sectors and multiplied with estell's emission factors for each unit of demand in every economic sector and region.

To determine emissions from capital goods, only purchasing volumes from according cost types (taxonomy of SGL) have been considered.

estell's emission factors include all upstream (cradle-to-gate) emissions of all the relevant process steps for each good or service. The model uses GWP values from IPCC's AR 5 (2013) for a 100-year time horizon including carbon feedbacks.

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

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

78841

Emissions calculation methodology

Spend-based method

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

0

Please explain

To calculate supply chain emission, "estell 6.1" a methodology and tool developed by the consulting firm Systain was applied. The methodology uses a detailed multi-regional Environmentally Extended Input Output database (EEIO, see also GHG Scope 3 Protocol chapter 7) based on the input-output table of the OECD (<https://www.oecd.org/sti/ind/inter-country-input-output-tables.htm>) - with additional inputs from BEA (www.bea.gov), World Bank indicators and EXIOBASE (www.exiobase.eu).

Activity data were taken from the procurement system of SGL as purchasing volume in EUR differentiated by cost types and country of origin. To determine supply chain emissions procurement volumes by cost type and country were allocated to economic sectors and multiplied with estell's emission factors for each unit of demand in every economic sector and region.

For fuel- and energy related activities, only fuel and electricity related procurement volumes have been considered to determine emissions. Direct emissions from electricity generation have been subtracted to avoid double counting with scope 2 emissions from SGL.

estell's emission factors include all upstream (cradle-to-gate) emissions of all the relevant process steps for each good or service. The model uses GWP values from IPCC's AR 5 (2013) for a 100-year time horizon including carbon feedbacks.

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

33016

Emissions calculation methodology

Spend-based method

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

0

Please explain

To calculate supply chain emission, "estell 6.1" a methodology and tool developed by the consulting firm Systain was applied. The methodology uses a detailed multi-regional Environmentally Extended Input Output database (EEIO, see also GHG Scope 3 Protocol chapter 7) based on the input-output table of the OECD (<https://www.oecd.org/sti/ind/inter-country-input-output-tables.htm>) - with additional inputs from BEA (www.bea.gov), World Bank indicators and EXIOBASE (www.exiobase.eu).

Activity data were taken from the procurement system of SGL as purchasing volume in EUR differentiated by cost types and country of origin. To determine supply chain emissions procurement volumes by cost type and country were allocated to economic sectors and multiplied with estell's emission factors for each unit of demand in every economic sector and region.

For upstream transportation and distribution, only transport related procurement volumes have been considered to determine emissions.

estell's emission factors include all upstream (cradle-to-gate) emissions of all the relevant process steps for each good or service. The model uses GWP values from IPCC's AR 5 (2013) for a 100-year time horizon including carbon feedbacks.

Waste generated in operations

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

5572

Emissions calculation methodology

Spend-based method

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

0

Please explain

To calculate supply chain emission, "estell 6.1" a methodology and tool developed by the consulting firm Sustain was applied. The methodology uses a detailed multi-regional Environmentally Extended Input Output database (EEIO, see also GHG Scope 3 Protocol chapter 7) based on the input-output table of the OECD (<https://www.oecd.org/sti/ind/inter-country-input-output-tables.htm>) - with additional inputs from BEA (www.bea.gov), World Bank indicators and EXIOBASE (www.exiobase.eu).

Activity data were taken from the procurement system of SGL as purchasing volume in EUR differentiated by cost types and country of origin. To determine supply chain emissions procurement volumes by cost type and country were allocated to economic sectors and multiplied with estell's emission factors for each unit of demand in every economic sector and region.

For waste generated in operations, only waste related procurement volumes have been considered to determine emissions.

estell's emission factors include all upstream (cradle-to-gate) emissions of all the relevant process steps for each good or service. The model uses GWP values from IPCC's AR 5 (2013) for a 100-year time horizon including carbon feedbacks.

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

1379

Emissions calculation methodology

Spend-based method

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

0

Please explain

To calculate supply chain emission, "estell 6.1" a methodology and tool developed by the consulting firm Sustain was applied. The methodology uses a detailed multi-regional Environmentally Extended Input Output database (EEIO, see also GHG Scope 3 Protocol chapter 7) based on the input-output table of the OECD (<https://www.oecd.org/sti/ind/inter-country-input-output-tables.htm>) - with additional inputs from BEA (www.bea.gov), World Bank indicators and EXIOBASE (www.exiobase.eu).

Activity data were taken from the procurement system of SGL as purchasing volume in EUR differentiated by cost types and country of origin. To determine supply chain emissions procurement volumes by cost type and country were allocated to economic sectors and multiplied with estell's emission factors for each unit of demand in every economic sector and region.

For business travel, only travel related procurement volumes have been considered to determine emissions. This also includes hotel accommodation of employees.

estell's emission factors include all upstream (cradle-to-gate) emissions of all the relevant process steps for each good or service. The model uses GWP values from IPCC's AR 5 (2013) for a 100-year time horizon including carbon feedbacks.

Employee commuting

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO₂e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Not relevant.

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

We do not have upstream leased assets.

Downstream transportation and distribution**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

Due to variety of customers, products and applications it is difficult to evaluate or estimate that number.

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

Due to variety of customers, products and applications it is difficult to evaluate or estimate that number.

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

Due to variety of customers, products and applications it is difficult to evaluate or estimate that number.

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

Due to variety of customers, products and applications it is difficult to evaluate or estimate that number.

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

We do not have downstream leased assets.

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

We do not have franchises.

Investments

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We do not have any investments.

Other (upstream)

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We do not have other upstream emissions.

Other (downstream)

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Please compare downstream explanations above.

C6.5a

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

Past year 1

Start date

January 1 2021

End date

December 31 2021

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

270775

Scope 3: Capital goods (metric tons CO2e)

11169

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

75385

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

35796

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

622

Scope 3: Business travel (metric tons CO2e)

300

Scope 3: Employee commuting (metric tons CO2e)

Scope 3: Upstream leased assets (metric tons CO2e)

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

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

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

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

Scope 3: Downstream leased assets (metric tons CO2e)

Scope 3: Franchises (metric tons CO2e)

Scope 3: Investments (metric tons CO2e)

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

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

Comment

C6.7

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

No

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

312

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

325878

Metric denominator

Other, please specify (Adjusted sales revenue in mill. € (excluding price, currency, and other special effects).)

Metric denominator: Unit total

1045

Scope 2 figure used

Location-based

% change from previous year

11

Direction of change

Decreased

Reason(s) for change

Change in renewable energy consumption
Other emissions reduction activities

Please explain

Decreased CO2 intensity due to activities and projects to increase energy efficiency which have been determined and implemented in many sites in the worldwide operations network.

C7. Emissions breakdowns

C7.1

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

No

C7.2

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

Country/area/region	Scope 1 emissions (metric tons CO2e)
United States of America	36128
United Kingdom of Great Britain and Northern Ireland	18517
Germany	16976
France	8131
China	2535
Poland	2386
Austria	827
Portugal	101
Italy	38
Japan	52
India	24
Spain	0

C7.3

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

By business division

C7.3a

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

Business division	Scope 1 emissions (metric ton CO2e)
BU Graphite Solutions	43805
BU Carbon Fibers	31320
BU Composite Solutions	5940
BU Process Technology	845
Other/Corporate	3805

C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4

(C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4) Break down your organization's total gross global Scope 1 emissions by sector production activity in metric tons CO2e.

	Gross Scope 1 emissions, metric tons CO2e	Net Scope 1 emissions , metric tons CO2e	Comment
Cement production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Chemicals production activities	85715	<Not Applicable>	We have assigned all our activities as "Chemicals Production".
Coal production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Electric utility activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Metals and mining production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (upstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (midstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (downstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Steel production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport OEM activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport services activities	<Not Applicable>	<Not Applicable>	<Not Applicable>

C7.5

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

Country/area/region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
United States of America	111201	
Portugal	48865	
Germany	27873	
Poland	21535	
China	18367	
United Kingdom of Great Britain and Northern Ireland	7951	
France	2199	
Austria	1332	
India	368	
Japan	309	
Italy	101	
Spain	61	

C7.6

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

By business division

C7.6a

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

Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
BU Graphite Solutions	94716	
BU Carbon Fibers	134365	
BU Composite Solutions	4815	
BU Process Technology	3407	
Other/Corporate	2860	

C7.7

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

No

C-CE7.7/C-CH7.7/C-CO7.7/C-MM7.7/C-OG7.7/C-ST7.7/C-TO7.7/C-TS7.7

(C-CE7.7/C-CH7.7/C-CO7.7/C-MM7.7/C-OG7.7/C-ST7.7/C-TO7.7/C-TS7.7) Break down your organization’s total gross global Scope 2 emissions by sector production activity in metric tons CO2e.

	Scope 2, location-based, metric tons CO2e	Scope 2, market-based (if applicable), metric tons CO2e	Comment
Cement production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Chemicals production activities	240163		We have assigned all our activities as "Chemicals Production".
Coal production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Metals and mining production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (upstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (midstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (downstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Steel production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport OEM activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport services activities	<Not Applicable>	<Not Applicable>	<Not Applicable>

C-CH7.8

(C-CH7.8) Disclose the percentage of your organization’s Scope 3, Category 1 emissions by purchased chemical feedstock.

Purchased feedstock	Percentage of Scope 3, Category 1 tCO2e from purchased feedstock	Explain calculation methodology
Please select		

C-CH7.8a

(C-CH7.8a) Disclose sales of products that are greenhouse gases.

	Sales, metric tons	Comment
Carbon dioxide (CO2)	0	SGL Carbon does not sell products that are GHGs.
Methane (CH4)	0	SGL Carbon does not sell products that are GHGs.
Nitrous oxide (N2O)	0	SGL Carbon does not sell products that are GHGs.
Hydrofluorocarbons (HFC)	0	SGL Carbon does not sell products that are GHGs.
Perfluorocarbons (PFC)	0	SGL Carbon does not sell products that are GHGs.
Sulphur hexafluoride (SF6)	0	SGL Carbon does not sell products that are GHGs.
Nitrogen trifluoride (NF3)	0	SGL Carbon does not sell products that are GHGs.

C7.9

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

Decreased

C7.9a

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

	Change in emissions (metric tons CO2e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	18418	Decreased	5.7	Location-based with EIA country values 2022.
Other emissions reduction activities	5477	Decreased	1.7	Savings according to Energy Management system (ISO 5001 certified).
Divestment	0	No change	0	
Acquisitions	0	No change	0	
Mergers	0	No change	0	
Change in output	13212	Increased	4.1	Change in output including mix effects.
Change in methodology	0	No change	0	
Change in boundary	0	No change	0	
Change in physical operating conditions	0	No change	0	
Unidentified	0	No change	0	
Other	0	No change	0	

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?

Location-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)	HHV (higher heating value)	0	467663	467663
Consumption of purchased or acquired electricity	<Not Applicable>	283518	308512	592030
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	0	240934	240934
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	420	<Not Applicable>	420
Total energy consumption	<Not Applicable>	283938	1017109	1301047

C-CH8.2a

(C-CH8.2a) Report your organization's energy consumption totals (excluding feedstocks) for chemical production activities in MWh.

Consumption of fuel (excluding feedstocks)

Heating value

HHV (higher heating value)

MWh consumed from renewable sources inside chemical sector boundary

0

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

467663

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

0

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

467663

Consumption of purchased or acquired electricity

Heating value

<Not Applicable>

MWh consumed from renewable sources inside chemical sector boundary

283518

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

308512

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

0

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

592030

Consumption of purchased or acquired steam

Heating value

<Not Applicable>

MWh consumed from renewable sources inside chemical sector boundary

0

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

240934

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

0

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

240934

Consumption of self-generated non-fuel renewable energy

Heating value

<Not Applicable>

MWh consumed from renewable sources inside chemical sector boundary

420

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

0

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

0

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

420

Total energy consumption

Heating value

<Not Applicable>

MWh consumed from renewable sources inside chemical sector boundary

283938

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

1017109

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

0

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

1301047

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	No
Consumption of fuel for the generation of heat	Yes
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

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

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

Other biomass

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

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

Other renewable fuels (e.g. renewable hydrogen)

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

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

Coal**Heating value**

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

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**Oil****Heating value**

HHV

Total fuel MWh consumed by the organization

3394

MWh fuel consumed for self-generation of electricity

<Not Applicable>

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

Diesel. Emission factor: 10,6577 MWh/m3 calculated using density and HHV (Gross CV) published by DEFRA (2022).

Gas**Heating value**

HHV

Total fuel MWh consumed by the organization

460902

MWh fuel consumed for self-generation of electricity

<Not Applicable>

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

Data collected in MWh as available in documents (mainly bills). In some sites it was necessary to convert volumetric values (e.g., CCF) in energy (MWh) and it was done based on DEFRA factors (2022).

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

Heating value

HHV

Total fuel MWh consumed by the organization

3366

MWh fuel consumed for self-generation of electricity

<Not Applicable>

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

LPG data collected if possible with Energy unit of measure (J, MWh) if available in documents (mainly bills). In many sites it was necessary to convert volumetric values (eg. liters) or weight (Kg) in Energy (MWh) and it was done based on DEFRA factors (2022).

Total fuel

Heating value

HHV

Total fuel MWh consumed by the organization

467663

MWh fuel consumed for self-generation of electricity

<Not Applicable>

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

These data incl. the above input data for diesel, LPG and Natural Gas does not incl. Gasoline, Compressed Air and Distance Heating, whose values are collected but not disclosed as neglectable (<2% of total fuel) .

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	420	0	420	0
Heat	0	0	0	0
Steam	0	0	0	0
Cooling	0	0	0	0

C-CH8.2d

(C-CH8.2d) Provide details on electricity, heat, steam, and cooling your organization has generated and consumed for chemical production activities.

Electricity

Total gross generation inside chemicals sector boundary (MWh)

420

Generation that is consumed inside chemicals sector boundary (MWh)

420

Generation from renewable sources inside chemical sector boundary (MWh)

420

Generation from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary (MWh)

0

Heat

Total gross generation inside chemicals sector boundary (MWh)

0

Generation that is consumed inside chemicals sector boundary (MWh)

0

Generation from renewable sources inside chemical sector boundary (MWh)

0

Generation from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary (MWh)

0

Steam

Total gross generation inside chemicals sector boundary (MWh)

0

Generation that is consumed inside chemicals sector boundary (MWh)

0

Generation from renewable sources inside chemical sector boundary (MWh)

0

Generation from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary (MWh)

0

Cooling

Total gross generation inside chemicals sector boundary (MWh)

0

Generation that is consumed inside chemicals sector boundary (MWh)

0

Generation from renewable sources inside chemical sector boundary (MWh)

0

Generation from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary (MWh)

0

C8.2g

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

Country/area

United States of America

Consumption of purchased electricity (MWh)

314659

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

Country/area

Germany

Consumption of purchased electricity (MWh)

89554

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

117

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

0

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

Country/area

France

Consumption of purchased electricity (MWh)

43035

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

Country/area

United Kingdom of Great Britain and Northern Ireland

Consumption of purchased electricity (MWh)

41155

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

Country/area

Poland

Consumption of purchased electricity (MWh)

34201

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

1285

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

0

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

Country/area

Portugal

Consumption of purchased electricity (MWh)

30011

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

237446

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

0

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

Country/area

China

Consumption of purchased electricity (MWh)

29900

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

Country/area

Austria

Consumption of purchased electricity (MWh)

7968

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

2087

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

0

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

Country/area

Japan

Consumption of purchased electricity (MWh)

650

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

Country/area

India

Consumption of purchased electricity (MWh)

534

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

Country/area

Spain

Consumption of purchased electricity (MWh)

401

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

Country/area

Italy

Consumption of purchased electricity (MWh)

381

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

C-CH8.3

(C-CH8.3) Does your organization consume fuels as feedstocks for chemical production activities?

No

C9. Additional metrics

C9.1

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

C-CH9.3a

(C-CH9.3a) Provide details on your organization's chemical products.

C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6

(C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

	Investment in low-carbon R&D	Comment
Row 1	Yes	Amongst others, SGL is pursuing projects to use raw materials from renewables, e.g., algae, natural fibers, bio-based chemicals, biomass.

C-CH9.6a

(C-CH9.6a) Provide details of your organization's investments in low-carbon R&D for chemical production activities over the last three years.

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

CSR-Report-2022-EN-s.pdf

Page/ section reference

P. 39-42

Relevant standard

ISAE3000

Proportion of reported emissions verified (%)

100

C10.1b

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

Scope 2 approach

Scope 2 location-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

CSR-Report-2022-EN-s.pdf

Page/ section reference

P. 39-42

Relevant standard

ISAE3000

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
- Scope 3: Capital goods
- Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)
- Scope 3: Upstream transportation and distribution
- Scope 3: Waste generated in operations
- Scope 3: Business travel

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

CSR-Report-2022-EN-s.pdf

Page/section reference

P. 39-42

Relevant standard

ISAE3000

Proportion of reported emissions verified (%)

100

C10.2

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

No, we do not verify any other climate-related information reported in our CDP disclosure

C11. Carbon pricing

C11.1

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

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

C11.2

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

No

C11.3

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

Yes

C11.3a

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

Type of internal carbon price

Shadow price

How the price is determined

Alignment with the price of allowances under an Emissions Trading Scheme

Objective(s) for implementing this internal carbon price

Drive energy efficiency
Drive low-carbon investment

Scope(s) covered

Scope 1
Scope 2

Pricing approach used – spatial variance

Uniform

Pricing approach used – temporal variance

Static

Indicate how you expect the price to change over time

<Not Applicable>

Actual price(s) used – minimum (currency as specified in C0.4 per metric ton CO2e)

100

Actual price(s) used – maximum (currency as specified in C0.4 per metric ton CO2e)

100

Business decision-making processes this internal carbon price is applied to

Capital expenditure

Mandatory enforcement of this internal carbon price within these business decision-making processes

Yes, for some decision-making processes, please specify (We apply our ICP to Capex projects with high energy consumption and/or GHG emissions)

Explain how this internal carbon price has contributed to the implementation of your organization's climate commitments and/or climate transition plan

The ICP has helped us in supporting energy-saving projects (e.g., heat recovery projects) and in favoring the electrification of processes (utilizing electricity from renewable sources).

C12. Engagement

C12.1

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

Yes, our suppliers
Yes, our customers/clients

C12.1a

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

Type of engagement

Information collection (understanding supplier behavior)

Details of engagement

Collect GHG emissions data at least annually from suppliers

% of suppliers by number

90

% total procurement spend (direct and indirect)

90

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

90

Rationale for the coverage of your engagement

We are collecting climate data and ambitions of our suppliers as part of our supplier risk management. We are utilizing a software tool to track progress.

Impact of engagement, including measures of success

We have set ourselves the target to engage with the top 100 suppliers until end of 2024.

Comment

C12.1b

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

Type of engagement & Details of engagement

Collaboration & innovation	Collaborate with customers in creation and review of your climate transition plan
----------------------------	---

% of customers by number

5

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

20

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

We engage in discussions with carefully chosen key customers about our climate ambitions and how they manifest in environmentally-friendly product offerings.

Impact of engagement, including measures of success

Environmentally-friendly product offerings.

C12.2

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

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

C12.3

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

Row 1

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

No, we have assessed our activities, and none could either directly or indirectly influence policy, law, or regulation that may impact the climate

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

No, and we do not plan to have one in the next two years

Attach commitment or position statement(s)

<Not Applicable>

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

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

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

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

CSR-Report-2022-EN-s.pdf

Page/Section reference

3-7; 11-14 (PDF page numbering)

Content elements

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

Comment

SGL Carbon's CSR Report is part of the Annual Report and audited by KPMG (limited assurance).

Publication

Other, please specify (SGL Carbon ESG Factbook)

Status

Complete

Attach the document

SGL-Carbon-ESG-Factbook.xlsx

Page/Section reference

Excel File. For climate, see "Environmental".

Content elements

- Governance
- Strategy
- Emissions figures
- Emission targets

Comment

Our ESG Factbook contains historic data back to the base year of our climate targets (2019). In addition, it contains links to SGL's key policies and documents (e.g., Supplier Code of Conduct, Environmental Policy). It is publicly available at our website in an Excel format: <https://www.sglcarbon.com/data/company/sustainability/SGL-Carbon-ESG-Factbook.xlsx>

C12.5

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

	Environmental collaborative framework, initiative and/or commitment	Describe your organization's role within each framework, initiative and/or commitment
Row 1	UN Global Compact	SGL Carbon is an active member of the UN Global Compact.

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, executive management-level responsibility	Biodiversity is part of SGL Carbon's overall ESG strategy and covered in our ESG Steering Committee. The Board of Management is permanent part of the ESG Steering Committee. In general, the business activities of SGL Carbon have very little, if any, impact on biodiversity.	<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 endorsed initiatives only	<Not Applicable>	SDG Other, please specify (UNGC)

C15.3

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

Impacts on biodiversity

Indicate whether your organization undertakes this type of assessment

No, but we plan to within the next two years

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

Dependencies on biodiversity

Indicate whether your organization undertakes this type of assessment

No, but we plan to within the next two years

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

C15.4

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

Not assessed

C15.5

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

	Have you taken any actions in the reporting period to progress your biodiversity-related commitments?	Type of action taken to progress biodiversity- related commitments
Row 1	No, we are not taking any actions to progress our biodiversity-related commitments, but we plan to within the next two years	<Not Applicable>

C15.6

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

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
Row 1	No	Please select

C15.7

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

Report type	Content elements	Attach the document and indicate where in the document the relevant biodiversity information is located
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C16. Signoff

C-FI

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

C16.1

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

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

SC. Supply chain module

SC0.0

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

SC0.1

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

	Annual Revenue
Row 1	

SC1.1

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

Requesting member

Robert Bosch GmbH

Scope of emissions

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

1500

Uncertainty (±%)

30

Major sources of emissions

Emissions include Scope 1, Scope 2, and Scope 3 .

Verified

No

Allocation method

Allocation based on the volume of products purchased

Market value or quantity of goods/services supplied to the requesting member

2364000

Unit for market value or quantity of goods/services supplied

Currency

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Since we have no PCF data available for all products, we made an allocation based on the volume of products purchased.

Requesting member

Schlumberger Limited

Scope of emissions

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO₂e

2100

Uncertainty (±%)

30

Major sources of emissions

Emissions include Scope 1, Scope 2, and Scope 3 .

Verified

No

Allocation method

Allocation based on the volume of products purchased

Market value or quantity of goods/services supplied to the requesting member

3320000

Unit for market value or quantity of goods/services supplied

Currency

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Since we have no PCF data available for all products, we made an allocation based on the volume of products purchased. We have included Schlumberger and Schlumberger Oilfield volumes.

Requesting member

Trelleborg AB

Scope of emissions

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO₂e

337

Uncertainty (±%)

30

Major sources of emissions

Emissions include Scope 1, Scope 2, and Scope 3 .

Verified

No

Allocation method

Allocation based on the volume of products purchased

Market value or quantity of goods/services supplied to the requesting member

265000

Unit for market value or quantity of goods/services supplied

Currency

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Since we have no PCF data available for all products, we made an allocation based on the volume of products purchased. We have included Trelleborg and Trelleborg Sealing volumes.

Requesting member

Baker Hughes Company

Scope of emissions

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

818

Uncertainty (±%)

30

Major sources of emissions

Emissions include Scope 1, Scope 2, and Scope 3 .

Verified

No

Allocation method

Allocation based on the volume of products purchased

Market value or quantity of goods/services supplied to the requesting member

1286000

Unit for market value or quantity of goods/services supplied

Currency

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Since we have no PCF data available for all products, we made an allocation based on the volume of products purchased.

Requesting member

Johnson Matthey

Scope of emissions

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

378

Uncertainty (±%)

30

Major sources of emissions

Emissions include Scope 1, Scope 2, and Scope 3 .

Verified

No

Allocation method

Allocation based on the volume of products purchased

Market value or quantity of goods/services supplied to the requesting member

595000

Unit for market value or quantity of goods/services supplied

Currency

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Since we have no PCF data available for all products, we made an allocation based on the volume of products purchased. We have included Johnson Matthey and Johnson Matthey Hydrogen volumes.

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
Other, please specify (Other, please specify)	At SGL, we have a diversity of product lines, multi-step production processes often across several production sites and intermediates products are typically not tailored for specific customers. Furthermore, for certain product lines the disclosure of emissions would require to disclose business sensitive proprietary information, e.g., principle production approach like types of furnaces, furnace efficiency, etc.

SC1.4

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

Yes

SC1.4a

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

SGL Carbon notices more and more requests from customers regarding the carbon footprint of our products. In order to be able to allocate the footprint to our customers in the future, we have launched in 2021 initial LCA projects. These projects continued in 2022 and will be used to establish tools and methods to determine the environmental footprint of key products for several industries incl. the automotive industry. Results will be used for communication with our stakeholders, e.g., our customers, and for subsequent process improvements. We plan to roll-out the learnings to other products and industries of SGL.

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