

Welcome to your CDP Climate Change Questionnaire 2023

C0. Introduction

C0.1

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

Momentive is a premier global advanced materials company with a focus on cutting-edge silicones and specialty products. We deliver solutions that improve and strengthen our customers' products. With more than 80 years of experience in research, development, and production, our diverse group of engineers, manufacturers and thinkers use the latest technologies to help improve everyday life around the world.

With every innovation, Momentive aims to create solutions for a sustainable future. Our vast product portfolio plays an essential role in driving sustainable performance across a multitude of industries, including agriculture, automotive, aerospace, electronics, energy, healthcare, personal care, consumer products, building and construction, and more. We are one of the world's largest producers of silicones and silicone derivatives through our Momentive Performance Materials business, an indirect wholly-owned subsidiary of MOM Holding Company.

Momentive is technology and innovation focused, with 3,400 patents serving high-growth applications. We collaborate with our customers to enable solutions that help solve their sustainability challenges, improve their operational efficiency or reduce greenhouse gas (GHG) emissions of end products, such as advanced materials that enable automotive e-mobility and fuel-efficiency, construction sealants and coatings that enable energy efficient buildings, and agricultural additives that enable more efficient food production.

We use energy and raw materials responsibly, and our management system drives decisions based on these resources. Energy is a key component to the production of our products. As an integral part of our manufacturing process, the energy we use is what produces most of our GHG emissions. Momentive actively manages our energy source selection and usage. In 2022, we developed a comprehensive strategy to continuously increase the portion of energy we use from renewable sources. By 2030, 100% of our electricity use globally will be from renewable sources. These efforts benefit both the business and the environment. The business impact from selecting a more cost-effective and renewable energy source, and only using what is required can be substantial, and less energy consumed translates to less environmental

impact. We aim to limit energy consumption while improving energy efficiency. About two-thirds of the energy we consume is directly generated at our plants through combustion of natural gas to create steam, along with relatively small quantities of diesel, gasoline, and propane. The remaining one-third is consumed in the form of electricity generated by others. Direct and indirect GHG emissions are key points of focus for Momentive.

In 2020, Momentive established 2025 Sustainability Goals that include innovating products that solve customers' sustainability challenges, and reducing our impact through operational excellence at both our sites and throughout our supply chain, with the following climate- and environment-related goals:

- Reduce greenhouse gas emissions, energy consumption, and solid waste and hazardous waste generation by 25% versus a 2019 baseline by 2025.
- Increase renewable electricity supply to 50% by 2025.
- Reduce net water consumption by 10% versus a 2019 baseline by 2025.
- Achieve platinum EcoVadis supply chain sustainability score and CDP Climate Change A-score by 2025.
- Drive innovation so that 75% of our new product sales deliver sustainability improvements to our customers or society by 2025.

Momentive is also committed to reducing our greenhouse gas emissions in line with the Science Based Targets initiative. We believe that this is essential to mitigating the effects of climate change and ensuring a sustainable future for our planet. We have "committed" to set ambitious Science Based Target (SBT) to reduce our emissions and reach net-zero emissions by 2050. We are confident that we can achieve these targets by investing in renewable energy, energy efficiency, and other climate-friendly technologies. We are also committed to working with our suppliers and partners to reduce their emissions. We believe that by working together, we can make a significant difference in the fight against climate change. We are proud to be a part of the Paris Climate Agreement and we are committed to doing our part to help the world achieve its climate goals.

In 2020, Momentive became a signatory of the UN Global Compact (UNGC). Every year, we publish our communication on our progress (COP) in our activities and management systems in support of the UNGC principles.

Please note that while the information and data herein are being provided to the best of the company's knowledge, Momentive makes no express or implied warranties regarding the accuracy of this information and data. Momentive reserves the right to amend or update the information and data.

C0.2

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

Reporting year

Start date

January 1, 2022

End date

December 31, 2022

Indicate if you are providing emissions data for past reporting years

No

C0.3

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

- Brazil
- China
- Germany
- India
- Italy
- Japan
- Republic of Korea
- Thailand
- 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.

- USD

C0.5

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

- Operational control

C-CH0.7

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

Row 1

Bulk organic chemicals

Polymers

Bulk inorganic chemicals

Other chemicals

Specialty chemicals

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
No	

C1. Governance

C1.1

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

Yes

C1.1a

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

Position of individual or committee	Responsibilities for climate-related issues
Board-level committee	Momentive's Board of Directors provide high level strategic direction and oversees the continued development and improvement of Momentive's Environmental, Social and Corporate Governance (ESG) performance. The Operations Committee of the Board of Directors reviews Momentive's ESG performance on a quarterly basis. The Compensation, Nominating & Governance Committee of the Board of Directors discusses and approves the incorporation of sustainability performance into our incentive structure.
Chief Executive Officer (CEO)	Our CEO is a member of the Board of Directors and has responsibility for climate-related issues. The CEO reviews energy, GHG, waste, water and renewable energy strategy, goals and performance for the entire company. The CEO has overall responsibility for execution of the annual operating plan that is approved by the Board of Directors, including capital expenditures for climate related functions and projects. For example, the CEO champions our 5-year company-wide strategic plan, which includes climate protection goals (energy, GHG, water and waste reduction goals; goals to increase the portion of renewable energy). These goals are for the period 2020-2025. In 2022, the CEO also championed for a dedicated capital budget for projects that contributes

	significantly to our 2025 Sustainability goals even when these projects do not meet the threshold for financial returns.
Other C-Suite Officer	Our Senior Vice President (SVP), Environmental, Health and Safety (EHS) & Operations Excellence, who reports to the CEO, is the liaison to the Operations Committee of the Board of Directors and reports to the Operations Committee on climate related issues, as well as other environmental, health, safety, quality and continuous improvement issues. This SVP enables climate related performance by leading the EHS, Quality, Continuous Improvement, Product Stewardship, Sustainability and Global Engineering functions and ensuring an overarching approach to Sustainability across manufacturing in the two businesses through leadership of the Operations Council. This SVP ensures that the capital investment process includes climate protection criteria and that capital budgets are set and protected. This SVP sponsors a cross-functional Sustainability Steering Committee and employs dedicated Corporate Sustainability staff. The Corporate Sustainability Team coordinates Momentive’s sustainability programs and initiatives, provides periodic reports to the Executive Leadership Team and the Committee, and develops external reports, including the annual sustainability report, with the support of a cross-functional Project Management Office. For example, in 2022, this SVP championed the 2021 ESG Summary Report. The report required collaboration from across the company, and featured disclosures on GHG emissions and climate protection. This SVP also championed the publication of our Communication on Progress (COP) for our commitment towards 10 principles of UN Global Compact.
President	Our business Presidents & General Managers (Performance Additives and Formulated Specialties) are responsible for delegating, managing and reporting on GHG performance, renewable energy, and steps being taken to reduce carbon emissions across their respective businesses, including manufacturing and technology. They work in concert with the activities and priorities set by the SVP, EHS & Operations Excellence and support the integration of sustainability thinking and continuous improvement within their respective businesses. They are responsible for business and site level budgeting for sustainability and climate related spending. They ensure that projects and initiatives to achieve reduction goals (such as carbon reduction goals) are included in budgets. For example, the businesses are focusing on products that reduce our emissions of greenhouse gases through greater efficiency, as well as increased use of renewable energy at our sites. At the beginning of 2022, we have three sites with 100% renewable energy, and our largest site is currently using ~40% renewable energy.

C1.1b

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

Frequency with which climate-related issues are	Governance mechanisms into	Please explain
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a scheduled agenda item	which climate-related issues are integrated	
Scheduled – all meetings	Reviewing and guiding annual budgets Overseeing major capital expenditures Reviewing innovation/R&D priorities Overseeing and guiding employee incentives Reviewing and guiding strategy	<p>Momentive’s Operations Committee of the Board of Directors and Executive Leadership Team (ELT) review Momentive’s ESG performance on a quarterly basis. The Operations Committee provides high level direction and oversees the continued development and improvement of Momentive’s ESG performance, including progress against goals for addressing climate related issues, recommends the general budget for EHS & Sustainability capital spending, and oversees initiatives to improve operational efficiencies in manufacturing and integrated supply chain.</p> <p>Momentive’s Compensation, Nominating & Governance Committee of the Board of Directors provides high level direction and oversees the design and implementation of the compensation policies, strategies, plans and programs for our key employees, including incentives tied to sustainability performance.</p> <p>Climate related issues are reviewed by the CEO and ELT monthly where energy, GHG, waste and water KPIs are presented by the SVP, EHS & Operations Excellence. Needed interventions at the business level are managed by the President & General Managers and briefed up to the ELT. Total company performance in energy, GHG, waste and water KPIs are managed by the entire ELT under the CEO’s leadership, with regular meetings where Sustainability topics are addressed. The ELT discusses and sets goals for energy consumption, GHG emissions and renewable energy to reduce overall GHG emissions from energy use.</p>

C1.1d

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

	Board member(s) have competence on climate-related issues	Criteria used to assess competence of board member(s) on climate-related issues
Row 1	Yes	The Board members in the Operating committee have extensive experience working in the chemical industry, and have acquired

		<p>knowledge on climate issues in the course of their activities in the chemical manufacturing field. They are overseeing environmental and climate related issues and are able to effectively perform the following duties:</p> <ul style="list-style-type: none"> * Oversee the climate / environmental related compliance programs and initiatives * Monitor our climate / environmental related performance statistics * Recommend the general budget for climate / environmental related capital spending * Oversee climate / environmental related audit programs <p>For example, The members of this board were responsible for evaluating the commitment requirements and recommended our management to commit to set Science Based Target (SBT). The members also evaluated and approved a strategy to increase renewable electricity use in our manufacturing sites.</p>
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C1.2

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

Position or committee

Other C-Suite Officer, please specify
 Senior Vice President, EHS and Operations Excellence

Climate-related responsibilities of this position

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

Coverage of responsibilities

Reporting line

CEO reporting line

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

Quarterly

Please explain

The SVP, EHS & Operations Excellence facilitates cross-functional interactions and collective efforts on a global scale to effectively reduce carbon emissions, energy usage, water consumption, and waste across various businesses. This individual ensures that sustainability goals are aligned and implements a comprehensive approach to sustainability within manufacturing operations by leading the Operations Council. By creating platforms for discussions on climate issues and integrating them into actual operations, the CEO's message can be heard, comprehended, and acted upon. Through these platforms, best practices are identified and promoted for wider adoption, and representatives from different functions, sites, and levels gain exposure. For instance, the SVP leads Momentive's monthly company-wide EHS (and Sustainability) Learning & Improvement Review, attended by the CEO, ELT, all manufacturing sites, and numerous other employees, where best practices are shared. The two business Presidents & General Managers then translate the CEO's message and sustainability performance objectives into actionable goals throughout the organization. They also serve as the initial point of reporting and management intervention, overseeing the flow of metrics and KPIs from the site level before reporting them to the CEO. Budgets are reviewed and approved to integrate the execution of climate and sustainability objectives with other business activities.

Position or committee

Other, please specify
Sustainability Strategy Leader

Climate-related responsibilities of this position

Managing annual budgets for climate mitigation activities
Integrating climate-related issues into the strategy
Conducting climate-related scenario analysis
Setting climate-related corporate targets
Monitoring progress against climate-related corporate targets
Managing public policy engagement that may impact the climate
Managing value chain engagement on climate-related issues
Assessing climate-related risks and opportunities

Coverage of responsibilities

Reporting line

Other, please specify
Reporting to Senior Vice President, EHS and Operations Excellence

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

Quarterly

Please explain

The Sustainability Strategy Leader, reporting to the SVP EHS and Operations Excellence, plays a crucial role in driving sustainability efforts within the organization. One of his key responsibilities is to keep the Executive Leadership Team (ELT) informed about the progress made in achieving sustainability goals. This involves updating the ELT on the status of ongoing initiatives and projects that are aimed at meeting these goals. Additionally, the Sustainability Strategy Leader identifies and communicates the resource requirements necessary for the successful execution of these initiatives.

In addition to reporting on progress and resource needs, the Sustainability Strategy Leader keeps the ELT abreast of external trends related to sustainability. This person monitors industry developments, regulatory changes, and emerging best practices in sustainability. By sharing these updates, the Sustainability Strategy Leader enables the ELT to stay ahead of the curve and adapt their strategies accordingly.

Another vital aspect of the Sustainability Strategy Leader's role is understanding stakeholder expectations. He actively gather feedback from various stakeholders, such as customers, employees, financial institutions and communities, to gauge their sustainability-related concerns and aspirations. By providing updates on stakeholder expectations, the Sustainability Strategy Leader helps the ELT align their sustainability strategy with the needs and demands of key stakeholders.

Furthermore, the Sustainability Strategy Leader serves as an educator within the ELT, imparting relevant knowledge and insights on sustainability. He ensures that the ELT members have a comprehensive understanding of sustainability concepts, principles, and practices. This education helps the ELT make informed decisions and integrate sustainability considerations into their strategic planning.

Position or committee

Other committee, please specify
Executive Leadership Team

Climate-related responsibilities of this position

Providing climate-related employee incentives
Integrating climate-related issues into the strategy
Monitoring progress against climate-related corporate targets
Managing public policy engagement that may impact the climate
Managing value chain engagement on climate-related issues
Assessing climate-related risks and opportunities

Coverage of responsibilities

Reporting line

CEO reporting line

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

Quarterly

Please explain

The CEO's direct reports form the Executive Leadership Team (ELT). The ELT meets at least monthly to discuss key issues and management of the company, and to review company performance, including performance relating to sustainability.

Position or committee

Chief Executive Officer (CEO)

Climate-related responsibilities of this position

Managing annual budgets for climate mitigation activities
Managing major capital and/or operational expenditures related to low-carbon products or services (including R&D)
Managing climate-related acquisitions, mergers, and divestitures
Providing climate-related employee incentives
Implementing a climate transition plan
Integrating climate-related issues into the strategy
Monitoring progress against climate-related corporate targets
Assessing climate-related risks and opportunities

Coverage of responsibilities

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 CEO reports directly to the Board of Directors and is the top level of the organization management. The SVP, EHS & Operations Excellence, where Sustainability reported in the reporting year, is a direct report to the CEO. The Business Presidents & General Managers are also direct reports to the CEO. Each has responsibility for the manufacturing operations relating to his / her business and,

accordingly, a role in addressing climate change issues and performance associated with the business. Functional leaders, such as Supply Chain and Technology, also report to the CEO and have responsibility for their organization's role in achieving the company's sustainability goals.

The CEO sets direction - mission and vision - for the company. His or her vision and foresight in seeing the importance of climate change to our company's performance, to our customers success, and to our employees well-being is where our sustainability program starts. The CEO sets direction on GHGs/energy/water/waste performance and is accountable for achieving company's sustainability goals. The CEO, with input from the ELT, provides the ultimate integration of sustainability (and climate performance) into everything we do at Momentive, including financial performance. The CEO and ELT are actively engaged in Sustainability issues and review plans, statements, strategies, goals and performance in detail. The CEO is a passionate spokesman for sustainability initiatives internal and external to Momentive.

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 2020 we incorporated sustainability performance into our incentive structure starting 2021 plan year. Please see details below.

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

All employees

Type of incentive

Monetary reward

Incentive(s)

Bonus - % of salary

Performance indicator(s)

- Progress towards a climate-related target
- Achievement of a climate-related target
- Reduction in absolute emissions

Increased share of renewable energy in total energy consumption
Reduction in total energy consumption
Company performance against a climate-related sustainability index (e.g., DJSI, CDP Climate Change score etc.)

Incentive plan(s) this incentive is linked to

Short-Term Incentive Plan

Further details of incentive(s)

Safety & Sustainability comprised 10% of Momentive's 2022 annual incentive plan for employees worldwide in an incentive-eligible position to ensure that we are rewarding actions central to Momentive's long term viability and growth. An industry-trusted standard (EcoVadis) was chosen due to its importance to our customers and includes the management of climate-related issues for Momentive and our supply chain.

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

This monetary incentive helps to align employee and organizational goals by tying employee compensation to Momentive's progress on its sustainability goals. This helps to motivate employees to take actions that support Momentive's climate commitments, such as reducing energy consumption, water usage, and waste generation. This incentive also help Momentive to attract and retain top talent by demonstrating our commitment to sustainability. In addition, it helps Momentive to build a positive brand image by demonstrating our commitment to sustainability. We anticipate that this will lead to increased customer loyalty, employee satisfaction, and investor / lender confidence.

Entitled to incentive

All employees

Type of incentive

Non-monetary reward

Incentive(s)

Internal company award

Performance indicator(s)

Increased investment in low-carbon R&D
Increased share of revenue from low-carbon products or services in product or service portfolio
Increased engagement with customers on climate-related issues
Implementation of employee awareness campaign or training program on climate-related issues

Incentive plan(s) this incentive is linked to

Short-Term Incentive Plan

Further details of incentive(s)

We have established a recognition program called "Inspire" program. The Inspire program is a company-wide recognition program that rewards employees for their contributions to the company's success. The program is open to all employees and project teams globally. This program offers a variety of rewards, including monetary awards, parking spaces, lunch, and celebrations. The "Sustainability Employee of the Month" award is one of the most popular awards in the Safety & Sustainability award program. This award recognizes employees who have made significant contributions to the company's sustainability efforts.

The award criteria vary from site to site, but some common criteria include:

- Reducing the company's environmental impact
- Implementing new sustainability initiatives
- Educating other employees about sustainability
- Promoting sustainability within the community

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

Employee motivation and retention

Entitled to incentive

All employees

Type of incentive

Non-monetary reward

Incentive(s)

Internal company award

Performance indicator(s)

- Progress towards a climate-related target
- Achievement of a climate-related target
- Reduction in absolute emissions
- Energy efficiency improvement
- Increased investment in low-carbon R&D
- Increased engagement with customers on climate-related issues
- Implementation of employee awareness campaign or training program on climate-related issues

Incentive plan(s) this incentive is linked to

This position does not have an incentive plan

Further details of incentive(s)

Starting in 2022, we have extended the companywide prestigious award called "Inspiration Awards" to include a new Sustainability category. The criteria for this award

states "Individual or Team globally that proactively engages in Sustainability improvement in the area of People (through cultural impact), Products (through profitable growth) and Planet (through excellence in operations & Supply Chain) and that contributes to Momentive's 2025 Sustainability Goals". The winner is awarded a recognition certificate and a trophy.

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

Employee motivation and retention

C2. Risks and opportunities

C2.1

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

Yes

C2.1a

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

	From (years)	To (years)	Comment
Short-term	0	1	From current time to 1 year is considered short term.
Medium-term	1	5	From 1 to 5 years is considered medium term.
Long-term	5	25	Long term is further out than 5 years.

C2.1b

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

In determining the potential impact of any candidate event or impact, we evaluate the following for both positive and negative outcomes, the magnitude of potential impact, likelihood of occurrence, and controls in place:

- How much of our business will be affected?

Momentive has large, medium and small customers around the world. In deciding how much of our business will be potentially impacted by an event, we consider the size of the customer and the types and quantities of products that they purchase order to evaluate how much of the total business will be affected.

- How big will the impact be on our businesses?

Momentive has large, medium and small sites around the world. In deciding potential impact, the size of the site and the locations potentially impacted are considered in order to evaluate how much of the total business will be affected.

- How important is the impacted organization to the rest of the business

In considering potential impact to an organization, scale of the impact as well as importance to the overall enterprise of the impacted organization is assessed. Assigning and quantifying tangible and intangible values can assist in determining how important an event may be to the individual organization but also beyond that to the whole enterprise.

- Potential for stakeholder or customer concern or reaction or reputational harm

Momentive has an active "Customer Love" program and approach that attempts to assess stakeholder and customers concerns in advance of an event, map out potential response or concern scenarios, and plan for potential concerns or reactions.

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

A multi-disciplinary team periodically assesses sites, facilities, and operations for potential losses, both "normal" and those caused by climate change. The team catalogs potential events (scenario planning) and evaluates the most likely impacts and worst-case scenarios. They consider the site's resilience, ability to respond, and the community and regional preparedness. They also assess the potential damage to assets, harm to employees, and impairment of business, as well as the risk to brand and reputation. Finally, they develop response plans and capabilities that are appropriate for

both the most likely event and more extreme events.

In addition, our Corporate Sustainability group assesses the carbon footprint of our products through the entire life cycle of the product to identify "hot spots" along the value chain. For example, using this Life Cycle Assessment methodology, we have identified our suppliers with highest carbon footprint and are working with them to mitigate the risk associated with climate change. The LCA results are also helping us design our products that has the lowest carbon footprint during the use and end of life phases. We have completed a series of LCA of our products ranging from Construction and Building materials to coatings material for automotive industry. As an example, an Environmental Product Declaration of Elemax 2600 can be found at the following link:

https://spot.ul.com/main-app/products/detail/64b049d0b05cbfd736e51935?page_type=Products%20Catalog

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

Potential suppliers are assessed prior to being granted work, including for EHS and sustainability risks. Supplier quality, EHS and legal compliance, conformance to Momentive supplier code of conduct (updated in 2022 and includes environmental protection and sustainability guidance for suppliers) and financial health (among other factors) are assessed once a supplier has been identified as a candidate supplier but before any work is contracted to the supplier. This gives assurance that a supplier will be able to perform during the life span of the underlying Momentive product, potentially a long term (decades) need. Our supplier code of conduct has also been incorporated into our standard purchase order terms and conditions starting in 2020 and updated in 2022 (<https://www.momentive.com/en-us/about-us/sustainability> - See "Sustainability in our Supply Chain")

Active suppliers are periodically assessed during run-of-contract for risks to our supply chain, including EHS and sustainability. Loss protection and security of supply are assessed, where feasible, and the supply chain is diversified to reduce risk and provide multiple pathways to secure our production. We have developed and are deploying a supplier ESG assessment questionnaire that will assess more details around sustainability related topics, including climate related risks. Active suppliers who do not materially comply with our supplier standards, supplier code of conduct requirements, and applicable worker health and safety performance requirements, or do not comply with applicable environmental, health, safety and human rights laws will be given notice and may be terminated if conditions are not corrected. For example, a sample of current suppliers is assessed in depth each year, and any corrective actions identified are tracked for correction.

On site contractors are considered part of the EHS risk management program at the site at which they are working. Contractors must adhere to health and safety requirements that are applicable to analogous activities conducted by employees and receive communications and training regarding risks and hazards at our sites, and are expected to conserve resources and care for the environment, as described in the supplier code of conduct. The behaviors of contractors that pose an unacceptable risk to human health, safety, or the environment are not tolerated, and incidents on Momentive grounds are treated as Momentive incidents, with full investigations, root cause analysis and corrective measure implementation.

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

Product Stewardship focuses on managing risk throughout the entire life cycle of a product. Within each business segments, teams responsible for product stewardship oversee cross-functional Risk Reviews. These reviews involve various stakeholders such as product stewards, toxicologists, sustainability leaders, business leaders, technology leaders, product managers, and customer support representatives. The

purpose of these reviews is to comprehensively evaluate the regulatory, health, environmental, and sustainability risks and opportunities associated with each product line. At the individual product level, a thorough examination takes place where compliance requirements (such as REACH), toxicological data, transportation of hazardous materials, customs and import risks, brand and reputation risks, as well as other potential risks are documented, discussed, and prioritized for analysis and appropriate action. As an illustration, some of our customers have expressed a need for ISO 16128 Natural Index calculations for our products. Moreover, an increasing number of customers are requesting Momentive to conduct customer-specific carbon assessments, which involve calculating the carbon emission footprint per unit of product (kg carbon per kg product). In 2021, we responded to several customer's request to provide this information by performing limited Life Cycle Assessments on a case to case basis.

C2.2a

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

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	We ensure that our global operations and activities comply with relevant legal requirements by carefully considering current regulations. Momentive possesses both internal resources and external consultants who assist in identifying and complying with legal requirements. Additionally, we actively engage in industry associations to stay informed about applicable legal requirements and gain insights into the potential climate-related impacts of such regulations. An example is understanding the refrigerants used in our chillers to adhere to hydrofluorocarbon (HFC) regulations.
Emerging regulation	Relevant, always included	Emerging regulations that are predicted to have impact on our facilities, operations and/or products are considered. Momentive has a Global Director, Government & Industry Relations who leads a global internal network consisting of regional leaders and product stewardship & regulatory affairs resources to stay abreast of developing regulations, and to work with regulatory bodies and industry groups to monitor and inform future regulations. An example for Momentive is emerging regulations in Europe on cyclics in cosmetics and other consumer and professional uses. Momentive assesses the business risk of such regulatory changes to understand the potential impact not only on our customers and product sales but also on our operations. Momentive also participates in silicones industry assessments to understand the carbon balance related to silicones over their life cycle, including GHG benefits resulting from the use of silicone products in addition to the GHG emissions related to production, use and end-of-life, to inform

		how silicones contribute to the circular economy and inform future policies.
Technology	Relevant, sometimes included	<p>Technology that will impact our facilities and/or products is considered. These include risks associated with moving to a lower carbon, energy-efficient system, or technologies that improves our ability to meet customer needs, or to meet their needs in a more efficient manner. An example for Momentive is the use of bio-based raw materials in our products. Bio- based materials may have quite different GHG emissions from the incumbent materials what they replace, and they may require different technology may be required to incorporate them such materials into our products and processes.</p> <p>Additionally, a significant opportunity exists for Momentive to provide new-to-the-market formulations and products that will leverage other technologies to reduce climate impacts. Electrification of transportation and solar energy are both areas where our improved heat sink compounds allow greater power density and electrical efficiency.</p>
Legal	Relevant, sometimes included	As a global company, we monitor legal risks in all relevant world areas. Legal issues that are climate related and could impact our products or facilities are included.
Market	Relevant, always included	Climate related shifts in supply/demand are assessed as we look to put long term contracts in place. Decisions are made based upon previous history with customers and suppliers and any climate related problems they have had in the past. As an example, many of our customers have stated supply chain goals for GHG emissions that will affect our emissions in order to continue to do business with those customers.
Reputation	Relevant, always included	<p>Risks to our company reputation (climate related or not) are assessed. Stakeholder and community perception is very important to us.</p> <p>Momentive sites around the world organize community days and Family Safety Days where employees, their families and the local community is invited. An example for Momentive is in our sustainability report, where we report on our ESG performance in a source that is accessible to communities around our plants and employment candidates who wish to work for a responsible company with a good reputation.</p>
Acute physical	Relevant, always included	<p>We have had facilities impacted by acute event driven risks such as hurricanes and floods. These types of risks are evaluated for each facility and mitigation is put in place to minimize the impact. An example is our Waterford, NY (USA) site, which has increased flood risks due to increased frequency of very high rainstorm events that are strengthened by climate change related factors, and the mitigation plans in place for the site.</p> <p>Another example of acute risk relates to our supply chain. The climate change is generating more and more extreme weather events (recent</p>

		freezing in South of US or Hurricanes/Tornados/Heavy Rains, etc.) that can become disruptive for the entire Supply Chain.
Chronic physical	Relevant, sometimes included	Long term shifts in climate patterns are included when trying to plan longer term. Using our Waterford site as an example again (it is our largest plant and location of our corporate headquarters), we consider whether our site could begin to experience flooding due to sea level rise. Such factors are considered as part of our facility risk assessment and mitigation plans.

C2.3

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

Yes

C2.3a

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

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation

Mandates on and regulation of existing products and services

Primary potential financial impact

Increased capital expenditures

Company-specific description

Emerging regulations on cyclicals (D4 - octamethylcyclotetrasiloxane, D5 - decamethylcyclopentasiloxane) could force higher levels of purity, requiring more energy and investment in equipment by Momentive. These ingredients are precursor to many products in Momentive's product portfolio, and the regulations will require Momentive to reduce the D4 and D5 levels to much lower value than currently permitted.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Low

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

0

Potential financial impact figure – maximum (currency)

0

Explanation of financial impact figure

Estimated impact to invest in process improvements and additional energy burn to achieve regulatory requirements.

Cost of response to risk

0

Description of response and explanation of cost calculation

Existing production systems must be evaluated for ability to produce product in compliance with regulatory standards, and changes engineered.

Comment

We are currently working on risk mitigation and estimating better financial impact numbers.

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical
Cyclone, hurricane, typhoon

Primary potential financial impact

Decreased revenues due to reduced production capacity

Company-specific description

Momentive evaluates on a site level the impact for property damage due to physical weather events. Recommendations from our insurance carrier on how to

reduce/mitigate the impact are developed into projects. Extreme weather conditions can cause our plants to be temporarily shut down due to damage, or from disruptions from raw material supply. Impacts to production have the potential to impact our ability to supply customers. An example of our risk mitigation action, we have initiated studies to explore raising levees in some of our sites along the rivers.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

100,000,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Financial impact is an estimate of the cost of asset damage, business interruption and the cost of finding alternative supplier and supply chains.

Cost of response to risk

63,000,000

Description of response and explanation of cost calculation

Existing sites are assessed for climate related storm damage, and feasible projects are budgeted for and implemented. These estimates are based on our insurance premium and deductibles.

Comment

We are currently working on risk mitigation and estimating better financial impact numbers.

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical
Flood (coastal, fluvial, pluvial, groundwater)

Primary potential financial impact

Decreased revenues due to reduced production capacity

Company-specific description

Momentive evaluates on a site level the impact for property damage due to physical weather events. An adverse event at one of our sites due to a weather event could have negative impact on the surrounding community which could result in negative publicity and /or loss of sales. Property damage can cause loss of production capacity.

Time horizon

Long-term

Likelihood

More likely than not

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

25,000,000

Potential financial impact figure – maximum (currency)

100,000,000

Explanation of financial impact figure

Financial impact is an estimate of the cost of lost business.

Cost of response to risk

63,000,000

Description of response and explanation of cost calculation

Adaption and mitigation projects are developed and a "dashboard" is used to keep our Executive Leadership Team updated on the status of each one. A formal review of all projects occurs every 6 months. The financial estimates are based on insurance premium and deductibles.

Comment

We are currently working on risk mitigation and estimating better financial impact numbers.

Identifier

Risk 4

Where in the value chain does the risk driver occur?

Upstream

Risk type & Primary climate-related risk driver

Acute physical
Cyclone, hurricane, typhoon

Primary potential financial impact

Increased indirect (operating) costs

Company-specific description

The climate change is generating more and more extreme weather events (recent freezing in South of US or Hurricanes/Tornados/Heavy Rains, etc.) that can become disruptive for the entire Supply Chain.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

25,000,000

Potential financial impact figure – maximum (currency)

100,000,000

Explanation of financial impact figure

Based on Enterprise Risk Management (ERM) assessment ranking and corresponding financial impact, mainly due to increased cost. We have undertaken commercial actions (e.g. alternate sourcing) to minimize this impact.

Cost of response to risk

0

Description of response and explanation of cost calculation

The cost to response is a modest balance sheet impact where we have targeted inventory builds to cover short term disruptions/enable supply chain alternate options to be effective.

Comment

In the last few years, we have undertaken several commercial actions to mitigate financial impact of this risk.

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 of new products or services through R&D and innovation

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

We collaborate with customers to develop new, and upgrade existing, products to provide offerings that enable customers to reduce their carbon and other GHG footprint. Our new products can reduce customer processing steps, enable lower temperature processing, or enable more energy efficient designs. For example, we recently launched our Harmonie (TM) product line that is specifically designed with biodegradable technologies, which help enhance the production processes' energy efficiency, and reduce waste produced.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

171,000,000

Potential financial impact figure – maximum (currency)

229,000,000

Explanation of financial impact figure

New to market product introductions during years 2022-2026

Cost to realize opportunity

26,000,000

Strategy to realize opportunity and explanation of cost calculation

R&D scientists collaborate with customers to develop new products providing desired properties. Green Chemistry principles and program sustainability assessments based on WBSD guidelines are used to guide new product development. The cost calculation is based on the number of programs planned and the anticipated total R&D spend for the next five years.

Comment

Our Technology organization tracks all opportunities arising from sustainability related workstream.

Identifier

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Markets

Primary climate-related opportunity driver

Access to new markets

Primary potential financial impact

Increased revenues through access to new and emerging markets

Company-specific description

Products that have specific climate related attributes are being developed. Such products will allow us to enter new markets. We currently make waterproof silicone sealants and roof coatings; developing such products allow us to enable solutions for buildings that are less susceptible to climate related hazards while simultaneously opening new markets.

Time horizon

Long-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

1,000,000

Potential financial impact figure – maximum (currency)

100,000,000

Explanation of financial impact figure

This is an estimate of the initial revenue from developing new products in a new market. Actual numbers would need to be determined.

Cost to realize opportunity

1,000,000

Strategy to realize opportunity and explanation of cost calculation

Collaboration with customers in the building industry to develop and test new products.

Comment

The additional cost is due to benchmarking and potential capital investment.

Identifier

Opp3

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Resource efficiency

Primary climate-related opportunity driver

Other, please specify

Setting 2025 Sustainability goals that focuses on reducing our resource consumption

Primary potential financial impact

Reduced direct costs

Company-specific description

We have set 2025 Sustainability Goals that calls for reducing our energy consumption, GHG emission and waste generation by 25% and water consumption by 10%. We have also committed to Science Based Target, and working with SBTi to finalize our 2030 GHG emission targets that will truly help Momentive align with the 1.5 deg Scenario of the Paris Climate accord.

Time horizon

Medium-term

Likelihood

Very likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

5,000,000

Potential financial impact figure – maximum (currency)

25,000,000

Explanation of financial impact figure

Estimates of cost savings from increased efficiency and reduced waste.

Cost to realize opportunity

2,500,000

Strategy to realize opportunity and explanation of cost calculation

Momentive has set company wide, strategic goals for reducing GHG emissions, energy, water and waste. Incorporating these goals will drive efficiency and productivity improvements that will have a positive benefit to the business and reduce our environmental footprint.

Comment

Identifier

Opp4

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Shift in consumer preferences

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Customer demand is shifting toward greener and more natural products in some markets. As customer demand changes, we will need to develop products that meet our customers' needs. As consumers and employees become more environmentally aware, and regulations grow, the demands from our customers to formulate products that have no or less volatile organic compounds (VOCs) is increasing.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

140,000,000

Potential financial impact figure – maximum (currency)

187,000,000

Explanation of financial impact figure

New to market product introductions during years 2022-2026

Cost to realize opportunity

18,000,000

Strategy to realize opportunity and explanation of cost calculation

R&D scientists collaborate with customers to develop new products providing desired properties. Green Chemistry principles and program sustainability assessments based on WBSD guidelines are used to guide new product development. The cost calculation is based on the number of programs planned and the anticipated total R&D spend for the next five years.

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

The shareholders are represented in the Board, feedback is collected through Board communications.

Frequency of feedback collection

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

2020-2021 Sustainability Report (page 15, 20, 24)

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
Row 1	Yes, qualitative and quantitative

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 Bespoke physical scenario	Company-wide	1.5°C	Momentive is a "committed" company with Science Based Target initiative. We have used Science Based Target tool to verify that our 2025 GHG emission reduction goal is aligned with the recommendation of SBTi. We used "Absolute Contraction Method", with a Base year of 2019 and Target year of 2025.

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

How will various climate-related scenarios, such as different levels of global warming, changing regulatory landscapes, and evolving customer demands, impact our business operations, supply chain resilience, product portfolio, and long-term financial performance over the next decade?

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

The analysis is currently on-going.

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	Both risks and opportunities related to growing business and consumer demand for innovative products and technologies that can facilitate better performance and decreased emissions of carbon have changed how we approach our product portfolio.

		<p>Generally, our silicones drive better performance when they are incorporated into our customers products. Our silicones help to reduce use-phase energy consumption (such as by reducing the rolling resistance of tires) or by facilitating better use of energy (by enabling electric cars, cell phones, etc) or improving performance (improved wetting for an agricultural chemical). Our overall product strategy is shifting to include a specific portion (with goals) of our product portfolio to be more sustainable over time. The time frame for these changes is 1-10 years.</p> <p>We see many opportunities related to the growing demand from customers for increasing the natural content and sustainability focus from our high performance products. This has influenced our strategy in 3 ways; we focus on delivering new products for opportunities linked to sustainability (Electric Cars, Low VOC Solutions, Energy Efficient Buildings); we optimize our processes to reduce impact while providing the same performance and benefit to society; and use Green Chemistry principles and naturally derived approaches to increase “green content” of our products. This portion of our strategy is currently under way, with a time frame of 1-4 years.</p> <p>Tire silanes are a great example. We are developing silanes that will incorporate increased amounts of a naturally derived ingredient, may allow our customers an increased capability to incorporate natural rubber into their tires, and may help further reduce the amount of fuel consumed by rolling resistance over the life time of the tire. The tire is also expected to last longer. The time frame for this project is 0-5 years.</p> <p>Momentive is committed to producing products that not only meet customer needs but also help solve societal challenges and deliver environmental benefits.</p>
Supply chain and/or value chain	Yes	<p>Our supply chain is international in scope with many risks and opportunities embedded. In assessing climate risks and opportunities in our supply chain, we've taken a look at extraction and refining our silicon metal (our basic ingredient), transport distances and modes, and packaging materials. Risk and opportunities assessments are affecting where we procure silicon metal from (biodiversity impacts, extraction impacts, transport distances) and how</p>

		<p>it's refined (hydro power vs. fossil energy). Once we create a product, it must be packaged and transported to our customers, which is another area for risk and opportunities assessments.</p> <p>Our overall supply chain strategy is changing as a result. Our Logistics function is transitioning from truck to rail transportation where feasible, and the packaging we use is increasingly recycled. The time frame for these changes is 0-3 years.</p> <p>One example is from the risks and opportunities identified in packaging. Some of our customers have set targets for recycled or reusable packaging, which gives us the opportunity to partner with them. Instead of new containers (drums or totes), we are shifting to recycled or recycled content containers, and closing the packaging loop by pooling our containers with companies that have presence at both ends of the logistics chain, meaning that we procure containers from the same company that our customer will return them to, avoiding waste and reducing climate risks. The time frame for this project is now, with further deployments to other customers in the next 1-3 years.</p> <p>In another case, transport leg carbon emissions were reduced by 50% as a direct result of risk and opportunities assessment, and strategic adjustments to how we transport materials from Italy to Belgium. This effort will expand in the time frame 2020-2025.</p>
Investment in R&D	Yes	<p>Climate-related risks and opportunities have begun to influence our R&D investment strategy by driving greater emphasis on new products with specific green and sustainable properties. Many of our existing products amplify and leverage carbon reductions in our customers products, and our investment in R&D is turning to emphasize the green portion of our own product portfolio.</p> <p>Our strategy includes greater emphasis on Green Chemistry, creating new-to-market materials that meet unmet market needs for energy efficiency, materials reduction, and carbon elimination. We're also investing in existing process improvements to lower our own impact while providing improved products to our customers. For example, our strategy includes training 100% of our</p>

		<p>technologists in Green Chemistry principles, and modifying our new product development cycle to measure green innovation using widely recognized measurement tool.</p> <p>As mentioned above, the tire silane example is also applicable here from an R&D perspective. The new silane will contain natural ingredients, will help our customers increase the use of natural components, and may lower life-cycle/use phase energy consumption.</p>
Operations	Yes	<p>Risk and opportunity assessments are driving strategic decisions in company production operations. Costs to emit carbon and other wastes cannot be ignored, and energy is a significant expense that is certain to rise.</p> <p>Operations has begun placing greater emphasis on operational efficiency with attention paid to energy, waste, water and GHG emission. Momentive has set Sustainability goals for each of these areas that will run in the time frame 2020-2025.</p> <p>For example, at our Waterford site, our energy procurement strategy is shifting to accommodate a greater percentage of renewable energy. The renewable energy portion of our portfolio has grown to 22%. Our goal is to increase the company-wide percentage of renewable energy to 50% in the time frame 2020-2025.</p>

C3.4

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

	Financial planning elements that have been influenced	Description of influence
Row 1	Capital expenditures	<p>As a result of assessing our climate related risks and opportunities, the way we plan for capital expenditures is changing. Energy use, GHG emission, water, waste and other sustainability related KPIs are being incorporated to internalize and more accurately account for environmental costs that may previously been externalized. We plan to embed sustainability, including carbon protection considerations, into our capital investment process as part of our 2020-2025 strategy.</p> <p>For example, while climate related opportunities and risks were</p>

		<p>considered previously using qualitative measures, we have begun estimating the costs of inputs and outputs that previously were not reflected in our capital planning. With costs included, capital expenditures decisions can factor in the total cost of operations with respect to environmental and climate impacts.</p> <p>For instance, a candidate Combined Heat and Power (CHP) installation had been considered as having too low a return on investment (ROI) to proceed, until brand, reputation and cost risks from climate related issues were costed and included; the CHP is now more attractive to the company and is being constructed as a result. There are several CH&P plants under consideration in the time frame 2020-2025.</p> <p>Financial planning in our R&D organization has also been impacted due to climate change. We have a stated goal of 75% of new product sales deliver sustainability improvements by 2025. To that effect, we have made significant investment in our development efforts to bring more sustainable products into the market.</p>
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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	
Row 1	Yes, we identify alignment with our climate transition plan

C3.5a

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

Financial Metric

CAPEX

Type of alignment being reported for this financial metric

Alignment with our climate transition plan

Taxonomy under which information is being reported

Objective under which alignment is being reported

Amount of selected financial metric that is aligned in the reporting year (unit currency as selected in C0.4)

Percentage share of selected financial metric aligned in the reporting year (%)

Percentage share of selected financial metric planned to align in 2025 (%)

Percentage share of selected financial metric planned to align in 2030 (%)

Describe the methodology used to identify spending/revenue that is aligned

As a private company, we are currently unable to disclose financial figures. However, there are a number of capital projects that aligns with our Climate strategy

* Investment in Combined Heat and Power units

*Investment in R&D infrastructure for sustainable product innovation

* Investment in solar panels.

* investment in infrastructure to reduce resource consumptions etc.

Financial Metric

CAPEX

Type of alignment being reported for this financial metric

Alignment with our climate transition plan

Taxonomy under which information is being reported

Objective under which alignment is being reported

Amount of selected financial metric that is aligned in the reporting year (unit currency as selected in C0.4)

Percentage share of selected financial metric aligned in the reporting year (%)

Percentage share of selected financial metric planned to align in 2025 (%)

Percentage share of selected financial metric planned to align in 2030 (%)

Describe the methodology used to identify spending/revenue that is aligned

We are currently investing towards procurement of renewable electricity, either through direct purchase of renewable electricity or through purchase of Renewable Energy Certificates.

C4. Targets and performance

C4.1

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

Absolute target

C4.1a

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

Target reference number

Abs 1

Is this a science-based target?

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

Target ambition

1.5°C aligned

Year target was set

2020

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

Base year

2019

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

244,827

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

170,328

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

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

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)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

415,156

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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

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

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

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 (%)

25

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

311,367

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

178,702

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

137,760

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

331,455

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]

80.6453477729

Target status in reporting year

Underway

Please explain target coverage and identify any exclusions

Momentive has set formal GHG emission reduction goals for the period 2020-2025 for the entire company using operational control approach. Momentive has also set goals for renewable energy in our electricity mix for the entire company. Using the excel based tool published by Science Based Target initiative, we confirmed that our GHG emission reduction target is aligned with recommendations provided by the tool for Scope 1 and Scope 2 emissions. In the next two years, we will undertake a formal assessment of our GHG emission target for alignment with 1.5 deg C scenario.

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

We have taken specific actions to achieve our 2025 GHG emission reduction goal. These include:

* In 2022, all Momentive manufacturing sites have developed a "Site Sustainability Plan" to achieve our corporate sustainability goals. These are specific projects with timeline that each site will execute till 2025 to achieve our short term and long term GHG emission reduction targets.

* One of the most impactful strategic steps we undertook was to establish a plan for streamlining our operational footprint. Beginning in 2021 and continuing into 2022, we exited high energy consuming basics chemical operations in North America and transitioned to focus on sustainable, advanced silicone technologies, investing in industries such as Electronics, Healthcare, Tire and Beauty & Personal Care. This transition from high energy intensive operations to a focus on new, efficient growth assets that are both energy efficient and provide sustainable solutions in applications such as E-mobility, advanced healthcare solutions, and energy efficient buildings will be a key part of our sustainability journey. We acknowledge that this transition will lead to a higher Scope 3 emission from raw materials purchases, but we anticipate that there will be a net reduction in the Scope 3 emissions due to the sustainable solutions we are providing to our customers as well as reduced Scope 3 emissions associated with our suppliers due to decarbonization related engagements we are undertaking with them.

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

C4.2

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

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

C4.2a

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

Target reference number

Low 1

Year target was set

2020

Target coverage

Company-wide

Target type: energy carrier

Electricity

Target type: activity

Consumption

Target type: energy source

Renewable energy source(s) only

Base year

2019

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

58,558

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

17

Target year

2025

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

50

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

22

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

15.1515151515

Target status in reporting year

Underway

Is this target part of an emissions target?

Yes. Momentive is targeting GHG reductions of 25% by 2025. Increasing renewable energy in our electricity mix will be one way of reducing our overall GHG emissions to achieve our target.

Is this target part of an overarching initiative?

Science Based Targets initiative

Other, please specify

Target in alignment with SBTi, but not verified by SBTi

Please explain target coverage and identify any exclusions

Momentive is targeting renewable and low-carbon energy goals for the period 2020-2025. Target covers all electricity consumed at our plants. We have committed to SBT and plan to commit to RE100 in the coming months. We have validated our goals against those calculated using SBTi excel based tool and it is aligned with SBTi's 1.5 deg. C Scenario.

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

We have developed a comprehensive plan to procure renewable electricity up to at least 50% using a combination of Power Purchase Agreement and Renewable Energy Credits. In addition, we have reduced electricity consumption in one of our large site without reducing amount of absolute amount of renewable electricity, thereby increasing the percentage of renewable electricity.

List the actions which contributed most to achieving this target

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

2020

Target coverage

Company-wide

Target type: absolute or intensity

Absolute

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

Energy consumption or efficiency

Other, please specify

PetaJoule

Target denominator (intensity targets only)

Base year

2019

Figure or percentage in base year

6

Target year

2025

Figure or percentage in target year

4.5

Figure or percentage in reporting year

4.7

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

86.6666666667

Target status in reporting year

Underway

Is this target part of an emissions target?

Our 2025 goal is to reduce our absolute GHG emission by 25%. Reducing our absolute energy consumption, in addition to procuring renewable sources of energy, is one way for us to achieve our GHG emission reduction goal.

Is this target part of an overarching initiative?

Other, please specify

We want to reduce our GHG emission by 25% by 2025 compared to our baseline year 2019.

Please explain target coverage and identify any exclusions

This target covers the entire company.

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

Site sustainability leaders for manufacturing sites initiate sustainability focused project to implement on site focused on energy reduction.

We have taken specific actions to achieve our 2025 energy reduction goal. These include:

* In 2022, all Momentive manufacturing sites have developed a "Site Sustainability Plan" to achieve our corporate sustainability goals. These are specific projects with timeline that each site will execute till 2025 to achieve our short term and long term GHG emission reduction targets.

* One of the most impactful strategic steps we undertook was to establish a plan for streamlining our operational footprint. Beginning in 2021 and continuing into 2022, we exited high energy consuming basics chemical operations in North America and transitioned to focus on sustainable, advanced silicone technologies, investing in industries such as Electronics, Healthcare, Tire and Beauty & Personal Care. This transition from high energy intensive operations to a focus on new, efficient growth assets that are both energy efficient and provide sustainable solutions in applications such as E-mobility, advanced healthcare solutions, and energy efficient buildings will be a key part of our sustainability journey. We acknowledge that this transition will lead to a higher Scope 3 emission from raw materials purchases, but we anticipate that there will be a net reduction in the Scope 3 emissions due to the sustainable solutions we are providing to our customers as well as reduced Scope 3 emissions associated with our suppliers due to decarbonization related engagements we are undertaking with them.

List the actions which contributed most to achieving this target

C4.2c

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

Target reference number

NZ1

Target coverage

Company-wide

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

Abs1

Target year for achieving net zero

2050

Is this a science-based target?

Yes, we consider this a science-based target, and the target is currently being reviewed by the Science Based Targets initiative

Please explain target coverage and identify any exclusions

This target covers the entire company.

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

Yes

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

Momentive has made a commitment to SBT and is currently working on setting near and long-term targets. Near term targets will focus on a 40% GHG emission reduction by 2030 for scopes 1+2.. These targets submitted for validation by SBT later in 2023. Long-term targets will be set for material scope 3 categories with a focus on reduction for 2050.

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

We plan to engage suppliers and encourage them to commit to SBT to reduce Scope 3 emissions. We have already engaged large percentage of our suppliers in decarbonization discussion, and will continue to do so to decrease our Scope 3 emissions as per SBTi requirements.

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	7	
To be implemented*	4	250
Implementation commenced*	30	24,000
Implemented*	28	55,000
Not to be implemented	6	

C4.3b

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

Initiative category & Initiative type

Estimated annual CO2e savings (metric tonnes CO2e)

50

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)

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

Payback period

<1 year

Estimated lifetime of the initiative

Ongoing

Comment

One of the most impactful strategic steps was to establish a plan for streamlining our operational footprint. Beginning in 2021 and continuing into 2022, we exited high energy consuming basics chemical operations in North America and transitioned to focus on sustainable, advanced silicone technologies, investing in industries such as Electronics, Healthcare, Tire and Beauty & Personal Care. This transition from high energy intensive operations to a focus on new, efficient growth assets that are both energy efficient and provide sustainable solutions in applications such as E-mobility, advanced healthcare solutions, and energy efficient buildings was a key part of our sustainability journey in 2022.

Initiative category & Initiative type

Low-carbon energy generation
Solar PV

Estimated annual CO2e savings (metric tonnes CO2e)

250

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

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

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

Payback period

4-10 years

Estimated lifetime of the initiative

21-30 years

Comment

One of our Asian sites installed solar PV to power administrative building and control room.

Initiative category & Initiative type

Low-carbon energy consumption
Other, please specify
Renewable Energy Certificates

Estimated annual CO2e savings (metric tonnes CO2e)

1,000

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

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

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

Payback period

Estimated lifetime of the initiative

1-2 years

Comment

One of our operating site in Europe invested in Renewable energy certificates to reduce Scope 2 emissions.

Initiative category & Initiative type

Energy efficiency in production processes
Other, please specify
includes reuse of steam, installing energy efficient equipment, LED lights and motion sensors, HVAC modernization etc

Estimated annual CO2e savings (metric tonnes CO2e)

3,000

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)

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

Payback period

1-3 years

Estimated lifetime of the initiative

6-10 years

Comment

We implemented several decarbonization projects including production efficiency improvement projects, CHP, improvement in HVAC systems, steam trap improvement and monitoring projects, electrification of transportation, LED lightings and motion sensor installation etc.

C4.3c

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

Method	Comment
Compliance with regulatory requirements/standards	Part of our annual capital investment budget is dedicated to projects driven by mandatory regulations or standards.
Dedicated budget for energy efficiency	Our annual capital investment budget includes funds for energy efficiency projects.
Employee engagement	We have a "volunteer" sustainability team that drives the reporting and processes. The team mostly comprises of Site Sustainability Leaders and other sustainability related direct contributors in the Operations who have ideas on how to reduce emissions. The team meets monthly and projects are reviewed.
Internal incentives/recognition programs	Momentive has a recognition program called "Inspire" where employees are recognized by peers, managers or others at various monetary and non-monetary levels for their work. Sustainability projects have been recognized as part of this program.
Compliance with regulatory requirements/standards	ISO 50000 - Energy Management Systems - are being implemented at several sites around the company.

C4.5

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

Yes

C4.5a

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

Level of aggregation

Group of products or services

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

Other, please specify

A product that reduces CO2 footprint at one or more stages of its life cycle.

Type of product(s) or service(s)

Other

Other, please specify

Agricultural adjuvant, Automotive and transportation products, Beauty and Personal care products, Healthcare products, Building and Construction products.

Description of product(s) or service(s)

Silwet (TM): Can reduce water use by up to 75%, thereby reducing carbon footprint during use phase significantly

Automotive and Transportation: Our portfolio includes ultra-light, ultra-strong composites that decrease weight and increase fuel efficiency

Harmonie (TM) line of beauty and personal care products: Derived from natural plant and mineral raw materials to deliver more sustainable, renewable and biodegradable high performing beauty products

Healthcare: Our products offer a sustainable solution to avoid breaking or leakages for bulk drug substance manufacturing, storage and transportation.

Building and Construction: Roof coating materials, sealants etc reduce energy consumption and corresponding GHG emission reductions.

A more comprehensive list of products and their details can be found in our Biennial Sustainability Report at https://www.momentive.com/docs/default-source/generalcontent/sustainability/2021-report.pdf?sfvrsn=3fe29959_4#page=45

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

Yes

Methodology used to calculate avoided emissions

Other, please specify

Life Cycle Assessment

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

Cradle-to-grave

Functional unit used

As a material provider, we mostly use kgCO₂/kg of product as the functional unit. However, for specific cases where we are comparing our products with a competitive product, we use other functional units, such as kg CO₂e/m² of area covered for our coatings products.

Reference product/service or baseline scenario used

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

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

Explain your calculation of avoided emissions, including any assumptions

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

C5. Emissions methodology

C5.1

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

No

C5.1a

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

Row 1

Has there been a structural change?

Yes, other structural change, please specify

Exited high energy consuming basics chemical operations in North America and transitioned to focus on sustainable, advanced silicone technologies, investing in industries such as Electronics, Healthcare, Tire and Beauty & Personal Care.

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

None

Details of structural change(s), including completion dates

Shutting down basic chemicals operations, initiated in min-2021, continuing through 2022.

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?	
Row 1	No

C5.1c

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

	Base year recalculation	Base year emissions recalculation policy, including significance threshold	Past years’ recalculation
Row 1	No, because the impact does not meet our significance threshold		No

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)

244,827

Comment

Our base year emissions are from 2019 and we have been recording this data each year after the base year.

Scope 2 (location-based)

Base year start

January 1, 2019

Base year end

December 31, 2019

Base year emissions (metric tons CO2e)

170,328

Comment

Our base year emissions are from 2019 and we have been recording more data each year after.

Scope 2 (market-based)

Base year start

January 1, 2019

Base year end

December 31, 2019

Base year emissions (metric tons CO2e)

170,328

Comment

Our base year emissions are from 2019 and we have been recording more data each year after.

Scope 3 category 1: Purchased goods and services

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 2: Capital goods

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 4: Upstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 5: Waste generated in operations

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 6: Business travel

Base year start

January 1, 2019

Base year end

December 31, 2019

Base year emissions (metric tons CO2e)

1,405

Comment

GHG Protocol, Technical Guidance for Calculating Scope 3 Emissions, Category 6, Business Travel Commuting: Distance based method Scope 3 emissions were calculated by summing CO2eq from our employees' hotel and airline usage.

Scope 3 category 7: Employee commuting

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 9: Downstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 15: Investments

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (downstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.3

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

- Defra Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance, 2019
- European Union Emission Trading System (EU ETS): The Monitoring and Reporting Regulation (MMR) – General guidance for installations
- IEA CO2 Emissions from Fuel Combustion
- The Climate Registry: General Reporting Protocol
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- US EPA Center for Corporate Climate Leadership: Indirect Emissions From Events and Conferences

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)

178,702

Comment

We have a system in place to gather this data on a monthly basis and we use this data to formulate our decarbonization policies.

C6.2

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

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

We are reporting a Scope 2, market-based figure

Comment

We have published our 2022 Market based and Location based emissions.

C6.3

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

Reporting year

Scope 2, location-based

154,238

Scope 2, market-based (if applicable)

137,760

Comment

We have published our 2022 Market based and Location based emissions.

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?

No

C6.5

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

Purchased goods and services

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

1,794,038

Emissions calculation methodology

Supplier-specific method

Average data method

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

2

Please explain

The methodology of GHG emission calculations is based on the GHG Protocol Corporate Value Chain Standard (by WBCSD and WRI) considering WBCSD guidance for the chemical sector (WBCSD, 2013), BASF Methodology for Product Carbon Footprint Calculation (BASF, 2021) and ISO 14067:2018, Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification (ISO, 2018). Results reported are based on 2022 full year activity data.

Currently, Category 1 emissions are calculated from cradle-to-gate emission data for approximately 80% of our purchased raw materials (1,794,038) and 100 % via extrapolation. If we extrapolate it to 100% of our current scope 3 GHG emissions we estimate that our total GHG emission from raw materials will be approximately 2,229,000 metric tons CO₂e. Emission factors were primarily obtained from the EcoInvent version 3.9.1 database (December 2022).

In 2022, we have continued to establish ways to improve the quality of our data. We are developing product carbon footprints (PCF) based on primary data for products. The supplier-specific emission factors have been preferably and increasingly utilized, but we have not received significant feedback from our suppliers to date. We are optimistic about improving the availability of this data in the future. Our continued partnership with EcoVadis and potential partnership with Together for Sustainability will support these efforts.

Capital goods

Evaluation status

Relevant, not yet calculated

Please explain

We are in the process of identifying all capital expenses in our Procurement spend sheet.

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

Evaluation status

Not relevant, calculated

Emissions in reporting year (metric tons CO₂e)

33,395

Emissions calculation methodology

Average data method

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

0

Please explain

We've calculated scope 3 for fuel and energy related activity in operations using emission factors for waste fuel types from DEFRA.

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

264,258

Emissions calculation methodology

Spend-based method

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

0

Please explain

The methodology of GHG emission calculations closely follows the relevant Greenhouse Gas Protocol Corporate Standard documents (by the WBCSD and WRI). The calculations use an environmentally extended input-output analysis (EEIO) approach based upon Momentive's logistics ERP spend data, utilizing the GHG Protocol Scope 3 Evaluator (Quantis) for Category 4 which considers upstream third-party transport and warehousing. The ERP spend data is inclusive of transportation and distribution services purchased by Momentive in 2022 (either directly or through an intermediary), including inbound logistics, outbound logistics (e.g., of sold products), and transportation and distribution between Momentive's own facilities (in vehicles and facilities not owned or controlled by Momentive), inflation adjusted to 2016. The ERP spend data does not include transportation and distribution of products purchased by Momentive, between our tier 1 suppliers and our own operations (in vehicles and facilities not owned or controlled by Momentive.)

The Quantis third party transport emissions factors are calculated using a 2009 world multiregional estimate of average environmental impacts by region-sector combined with global warming potential impact assessment (Timmer 2012, IPCC 2007). Emissions factors for upstream warehousing are represented by Open IO emissions data (TSC 2011).

Momentive recognizes this category as relevant to our operations and intends to include both fuel-based and distance-based methods for use in future year reporting of transport tonnage.

Waste generated in operations

Evaluation status

Not relevant, calculated

Emissions in reporting year (metric tons CO₂e)

10,611.89

Emissions calculation methodology

Average data method

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

0

Please explain

We've calculated scope 3 for waste generated in operations using emission factors for waste streams from DEFRA.

Business travel

Evaluation status

Not relevant, calculated

Emissions in reporting year (metric tons CO2e)

2,795

Emissions calculation methodology

Supplier-specific method

Hybrid method

Average data method

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

0

Please explain

We received supplier provided emission factors for select travel sector. But for consistency, we used uniform emission factors from DEFRA to calculate the overall GHG emissions.

Employee commuting

Evaluation status

Not relevant, explanation provided

Please explain

Large section of our employees are still working from home. We will evaluate this when we will return to full normal.

Upstream leased assets

Evaluation status

Relevant, not yet calculated

Please explain

Our warehouses are operated by third party. We have engaged the warehouse owners in 2022, but have not received Scope 3 data from them yet.

Downstream transportation and distribution

Evaluation status

Relevant, not yet calculated

Please explain

We are in the process of calculating this emission

Processing of sold products

Evaluation status

Relevant, not yet calculated

Please explain

Our products are processed by our customers in making end products. We will engage our customers in the future to get better manufacturing data

Use of sold products

Evaluation status

Not evaluated

Please explain

Due to extremely diverse use of our products, we have not yet been able to calculate this figure.

End of life treatment of sold products

Evaluation status

Not relevant, explanation provided

Please explain

Our products makes up a small fraction of the end products where our products are used. Therefore their impact in EOL is likely to be small

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Please explain

We have only very few warehouses where we store our products.

Franchises

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any franchises

Investments

Evaluation status

Not relevant, explanation provided

Please explain

We do not own assets outside of our operational control

Other (upstream)

Evaluation status

Not evaluated

Please explain

Other (downstream)

Evaluation status

Not evaluated

Please explain

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

0.45

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

316,463

Metric denominator

metric ton of product

Metric denominator: Unit total

727,810

Scope 2 figure used

Market-based

% change from previous year

17.3

Direction of change

Decreased

Reason(s) for change

Other, please specify
 Operations Shutdown

Please explain

Momentive has shut down our basics production in one of our plants resulting in a decrease in overall GHG emissions.

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)
Americas	110,142
Asia, Australasia	44,271
Europe, Middle East and Africa (EMEA)	24,277

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)
Silicones	178,702

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	Comment
Chemicals production activities	178,702	Our scope 1 emissions are mainly from the combustion of our energy sources such as natural gas, gasoline, etc...

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)
Americas	67,333	59,924
Asia, Australasia	58,755.38	58,755.38
Europe, Middle East and Africa (EMEA)	28,150.12	19,080.92

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)
Silicones	154,238	137,760

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
Chemicals production activities	154,238	137,760	We have published location-based and market-based emissions that have been assured by a third-party.

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

C-CH7.8a

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

	Sales, metric tons	Comment
Carbon dioxide (CO2)		
Methane (CH4)		
Nitrous oxide (N2O)		
Hydrofluorocarbons (HFC)		
Perfluorocarbons (PFC)		
Sulphur hexafluoride (SF6)		
Nitrogen trifluoride (NF3)		

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 CO ₂ e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	2,000	Decreased	1	Several of our sites have increased the amount of renewable electricity that is procured. We expect this trend to continue through 2023.
Other emissions reduction activities	3,000	Decreased	1	We completed several energy efficiency projects in 2022 that resulted in decrease in our GHG emission.
Divestment				
Acquisitions				
Mergers				
Change in output	10,000	Decreased	2.5	Overall production was down through 2022 leading to a decrease in GHG emissions.
Change in methodology				
Change in boundary				
Change in physical operating conditions				
Unidentified				
Other	50,000	Decreased	12	Beginning in 2021 and continuing into 2022, we exited high energy consuming basics chemical operations in North America.

C7.9b

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

Market-based

C8. Energy

C8.1

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

More than 15% but less than or equal to 20%

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)		949,118	949,118
Consumption of purchased or acquired electricity		59,684	186,982	246,666
Consumption of purchased or acquired steam			75,718	75,718
Consumption of self-generated non-fuel renewable energy		258		258
Total energy consumption		59,942	1,211,818	1,271,760

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

250

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

949,118

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

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

949,118

Consumption of purchased or acquired electricity

MWh consumed from renewable sources inside chemical sector boundary

59,684

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

186,982

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

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

246,666

Consumption of purchased or acquired steam

MWh consumed from renewable sources inside chemical sector boundary

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

75,718

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

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

75,718

Consumption of self-generated non-fuel renewable energy

MWh consumed from renewable sources inside chemical sector boundary

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

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

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

Total energy consumption

MWh consumed from renewable sources inside chemical sector boundary

59,684

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

186,982

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

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

1,271,502

C8.2b

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

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	Yes
Consumption of fuel for the generation of heat	Yes
Consumption of fuel for the generation of steam	Yes
Consumption of fuel for the generation of cooling	
Consumption of fuel for co-generation or tri-generation	Yes

C8.2c

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

Sustainable biomass

Heating value

Total fuel MWh consumed by the organization

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

In 2022, Momentive did not consume any sustainable biomass.

Other biomass

Heating value

Total fuel MWh consumed by the organization

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

In 2022, Momentive did not use any other biomass

Other renewable fuels (e.g. renewable hydrogen)

Heating value

Total fuel MWh consumed by the organization

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

In 2022, Momentive did not use any renewable hydrogen

Coal

Heating value

Total fuel MWh consumed by the organization

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

In 2022, Momentive did not use any coal

Oil

Heating value

Total fuel MWh consumed by the organization

7,174

MWh fuel consumed for self-generation of electricity

7,174

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

In 2022, Momentive used limited amount of diesel fuel to run generators to produce electricity

Gas

Heating value

Total fuel MWh consumed by the organization

912,788

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam

912,788

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

The gaseous fuels were used to produce electricity, steam and was also used to provide direct heat. However their split has not been calculated for this report.

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

Heating value

Total fuel MWh consumed by the organization

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

Total fuel

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

919,962

MWh fuel consumed for self-generation of electricity

7,174

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam

912,788

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

All diesel fuels were used to produce electricity using electric generators. Some amount of gaseous fuel was also used to produce electricity.

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	258	258	258	258
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)

258

Generation that is consumed inside chemicals sector boundary (MWh)

258

Generation from renewable sources inside chemical sector boundary (MWh)

258

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)

Generation that is consumed inside chemicals sector boundary (MWh)

Generation from renewable sources inside chemical sector boundary (MWh)

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

Steam

Total gross generation inside chemicals sector boundary (MWh)

Generation that is consumed inside chemicals sector boundary (MWh)

Generation from renewable sources inside chemical sector boundary (MWh)

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

Cooling

Total gross generation inside chemicals sector boundary (MWh)

Generation that is consumed inside chemicals sector boundary (MWh)

Generation from renewable sources inside chemical sector boundary (MWh)

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

C8.2e

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

C8.2g

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

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.

Description

Waste

Metric value

71,407

Metric numerator

Waste (Metric Tons)

Metric denominator (intensity metric only)

Production (t)

% change from previous year

22.06

Direction of change

Decreased

Please explain

This decrease is due to the shutdown of our basics production at one of our sites as well as other waste reduction efforts.

Description

Energy usage

Metric value

4,701,675,005

Metric numerator

Total energy usage (Mega Joule)

Metric denominator (intensity metric only)

Production (in Kg)

% change from previous year

16.1

Direction of change

Decreased

Please explain

This decrease is due to the shutdown of our basics production at one of our sites as well as other waste reduction efforts.

C-CH9.3a

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

Output product

Specialty chemicals

Production (metric tons)

727,810

Capacity (metric tons)

Direct emissions intensity (metric tons CO2e per metric ton of product)

0.45

Electricity intensity (MWh per metric ton of product)

0.407

Steam intensity (MWh per metric ton of product)

0.104

Steam/ heat recovered (MWh per metric ton of product)

Comment

Momentive is a specialty chemical company.

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	One of our 2025 Sustainability Goal is to have 75% of our new products deliver sustainability benefits to our customer. One of the sustainability benefits is to develop low carbon products.

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.

Technology area

Process step integration

Stage of development in the reporting year

Full/commercial-scale demonstration

Average % of total R&D investment over the last 3 years

R&D investment figure in the reporting year (unit currency as selected in C0.4) (optional)

Average % of total R&D investment planned over the next 5 years

Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

Our energy management strategy promotes efficient utility use at all sites. Most recently we have completed construction and startup of a major cogeneration project at our site in Ohta, Japan. We have also converted to LED lighting at several of our sites.

Technology area

Product redesign

Stage of development in the reporting year

Average % of total R&D investment over the last 3 years

R&D investment figure in the reporting year (unit currency as selected in C0.4) (optional)

Average % of total R&D investment planned over the next 5 years

Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

Using Green Chemistry principles, products are continuously evaluated and advancements in technology or technique are applied to improve existing processes.

Technology area

Radical process redesign

Stage of development in the reporting year

Average % of total R&D investment over the last 3 years

R&D investment figure in the reporting year (unit currency as selected in C0.4) (optional)

Average % of total R&D investment planned over the next 5 years

Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

Bio based materials are replacing fossil or non-renewable components of our formulations.

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

Moderate assurance

Attach the statement

 Momentive_Assurance Statement_2023.pdf

Page/ section reference

All

Relevant standard

AA1000AS

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

Moderate assurance

Attach the statement

 Momentive_Assurance Statement_2023.pdf

Page/ section reference

All

Relevant standard

AA1000AS

Proportion of reported emissions verified (%)

100

Scope 2 approach

Scope 2 market-based

Verification or assurance cycle in place

Annual process


Status in the current reporting year

Complete

Type of verification or assurance

Moderate assurance

Attach the statement

 Momentive_Assurance Statement_2023.pdf

Page/ section reference

All

Relevant standard

AA1000AS

Proportion of reported emissions verified (%)

100

C10.1c

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

Scope 3 category

Scope 3: Purchased goods and services

Verification or assurance cycle in place

Annual process


Status in the current reporting year

Complete

Type of verification or assurance

Moderate assurance

Attach the statement

 Momentive_Assurance Statement_2023.pdf

Page/section reference

All

Relevant standard

AA1000AS

Proportion of reported emissions verified (%)

80

Scope 3 category

Scope 3: Business travel

Verification or assurance cycle in place

Annual process


Status in the current reporting year

Complete

Type of verification or assurance

Moderate assurance

Attach the statement

 Momentive_Assurance Statement_2023.pdf

Page/section reference

All

Relevant standard

AA1000AS

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?

Yes

C10.2a

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

 Momentive_Assurance Statement_2023.pdf

Disclosure module verification relates to	Data verified	Verification standard	Please explain
C9. Additional metrics	Waste data	AA1000AS	We assured our hazardous and solid waste.
C9. Additional metrics	Other, please specify Renewable Energy Consumption	AA1000S	We assured the percentage of our renewable electricity.

C11. Carbon pricing

C11.1

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

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

C11.1d

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

Our strategy is to understand the systems as they develop, and take actions consistent with good management practices for our industry. We have measuring systems in place now that are tracking data in a way that is suitable for use in a CTS. For instance, our carbon tracking system contains specific libraries for tracking carbon credits, and the system was tested. As the specific program requirements develop, we can simply plug the factors in to the existing system.

C11.2

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

C11.3

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

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

C12. Engagement

C12.1

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

Yes, our suppliers

Yes, our customers/clients

C12.1a

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

Type of engagement

Engagement & incentivization (changing supplier behavior)

Details of engagement

Run an engagement campaign to educate suppliers about climate change

Provide training, support, and best practices on how to make credible renewable energy usage claims

Provide training, support, and best practices on how to set science-based targets

Directly work with suppliers on exploring corporate renewable energy sourcing mechanisms

Other, please specify

We provide Code of Conduct to our supplier featuring climate change KPIs

% of suppliers by number

100

% total procurement spend (direct and indirect)

100

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

4

Rationale for the coverage of your engagement

We influence and engage our suppliers, one of our key stakeholder, in alignment with our sustainability priorities. In turn, we expect to better understand our supplier's priorities so that we can continually improve our own actions. Through this iterative process of engagement, reflection and realignment, we aim to improve the performance of the company while minimizing our impact on the planet. During the on-boarding of our new suppliers we provide copy of the supplier code of conduct and it is also referenced in our purchases order terms and conditions.

Impact of engagement, including measures of success

Percent of commodity managers trained worldwide on sustainable procurement principles and practices by 2022.

Comment

Our goal is to achieve 100% trained commodity managers worldwide on sustainable procurement principles and practices by 2022. We have achieved this target in 2022.

C12.1b

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

Type of engagement & Details of engagement

% of customers by number

5

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

0

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

Our customers with higher perceived exposure to consumer demand for engagement are prioritized, as are those customer companies with well-defined and well established

sustainability programs. We provide qualitative and quantitative measures of how our products help reduce their footprint. In 2022, we engaged a number of such customers (approx. 5 to 10%) and we expect to continue to reach out to significantly more customers in the future.

Impact of engagement, including measures of success

Our outreach has resulted in a number of collaborative work with our customers to develop sustainable products. However, we have not formally started tracking the impact.

C12.2

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

Yes, climate-related requirements are included in our supplier contracts

C12.2a

(C12.2a) Provide details of the climate-related requirements that suppliers have to meet as part of your organization's purchasing process and the compliance mechanisms in place.

Climate-related requirement

Climate-related disclosure through a non-public platform

Description of this climate related requirement

Our new Purchase Order requires our suppliers to provide climate related data using a form devised by Momentive

% suppliers by procurement spend that have to comply with this climate-related requirement

100

% suppliers by procurement spend in compliance with this climate-related requirement

0

Mechanisms for monitoring compliance with this climate-related requirement

Supplier self-assessment
Supplier scorecard or rating

Response to supplier non-compliance with this climate-related requirement

Retain and engage

C12.3

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

Row 1

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

Yes, we engage directly with policy makers

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

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

Yes

Attach commitment or position statement(s)

Signed letter from our CEO committing to SBT and Paris Agreement.

 MPM Science Based Target Commitment Letter (signed).pdf

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

In line with expectations of our stakeholders and consistent with our Core Values and Safety and Sustainability Policy, Momentive is committed to implementing business practices that improve not only financial results, but environmental, social and corporate governance performance.¹ To this end, Momentive has developed several policies, standards and procedures related to corporate social responsibility that together constitute our ESG Management System. For details, please visit:
https://www.momentive.com/docs/default-source/generalcontent/sustainability/momentive-2021-esg-commitment.pdf?sfvrsn=a46d6884_2

C12.3a

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

C12.3b

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

Trade association

American Chemistry Council

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

Consistent

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

Yes, we publicly promoted their current position

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

ACC actively works to promote the safe use of chemicals by industry. They have recently released a set of industry-wide Sustainability Principles that articulate the chemical industry's commitments to sustainability, including advancing safe, innovative, effective chemical products, materials and technologies that help address climate change, hunger, clean water, energy needs and global standards of living.

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

Describe the aim of your organization's funding

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

No, we have not evaluated

Trade association

Other, please specify
Global Silicone Council

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

Consistent

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

Yes, and they have changed their position

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

GSC’s objective is to promote the safe and sustainable use and stewardship of silicones products globally. Momentive has teamed up with GSC to fund various research and studies on how Silicones contribute to the sustainability of our stakeholders.

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

Describe the aim of your organization’s funding

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

Yes, we have evaluated, and it is aligned

C12.4

(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

Page/Section reference

Placeholder till the new report is published

Content elements

Governance
Strategy
Emissions figures

Comment

This is our 2022 Sustainability Report

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	Business Ambition for 1.5C Global Reporting Initiative (GRI) Community Member Pledge to Net Zero Science Based Targets Network (SBTN) UN Global Compact	We are a signatory to all the frameworks mentioned here, and publish regular progress report for each framework.

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
Row 1	No, but we plan to have both within the next two years

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
Row 1	No, but we plan to do so within the next 2 years

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

Dependencies on biodiversity

Indicate whether your organization undertakes this type of assessment

No, but we plan to within the next two years

C15.4

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

No

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?	
Row 1	No, we are not taking any actions to progress our biodiversity-related commitments, but we plan to within the next two years

C15.6

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

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

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 Technology Officer	Other C-Suite Officer

SC. Supply chain module

SC0.0

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

Momentive's supply chain represents a key contributor to our success – providing mission critical performance materials to thousands of customers – and a major opportunity that we are working to optimize. Maintaining an efficient and responsible supply chain is critical to Momentive's ability to ensure the production of quality materials, and to effectively serve its customers globally. Our supply chain is charged with procuring, shipping, and ensuring the quality of millions of pounds of raw materials annually. Our supply chain also packages and ships products to our customers and provides global customer service support. More than 350 people work in our supply chain organization across the globe. These professionals have made significant progress, implementing various improvement and automation projects annually to improve planning, advance transactional services, optimize shipping loads, and reduce associated environmental impacts.

SC0.1

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

	Annual Revenue
Row 1	2,900,000,000

SC1.1

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

SC1.2

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

SC1.3

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

Allocation challenges	Please explain what would help you overcome these challenges
Customer base is too large and diverse to accurately track emissions to the customer level	We must develop systems that will allow us to allocate consumed resources to produced product, and then aggregate across products, customers and sites to be able to allocate total impacts.
Diversity of product lines makes accurately accounting for each product/product line cost ineffective	A single customer may take several different products from several different plants and locations at various times and differing schedules over a given period of time. Allocating all the variables across complex customers is very difficult.
Managing the different emission factors of diverse and numerous geographies makes calculating total footprint difficult	We will assess a decentralized database for Location-Based emission factors (namely The International Energy Agency) to scope country level emissions for a much more accurate overview.

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.

We're improving our materials planning processes which will improve our ability to assess input quantities per unit of production; we're improving our KPI capture for emissions which will improve our knowledge of outputs, including product carbon footprint (PCF). We plan to tie this together in a sustainability data management platform that will improve our ability to allocate

inputs, outputs and products created. We are also in the process of estimating detailed Scope 3 emissions as well as performing life cycle assessment for select products and customers.

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?

Yes

SC2.2a

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

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

