

C0. Introduction

C0.1

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

Headquartered in Avon Lake, Ohio, USA, with world-wide operations encompassing more than 100 facilities and employing approximately 9,100 associates, Avient (formerly PolyOne) Corporation (NYSE: AVNT), is a premier provider of specialized sustainable material. The company is dedicated to serving customers in diverse industries around the globe, by creating value through collaboration, innovation and an unwavering commitment to excellence. Guided by its Core Values, Sustainability Promise and No Surprises Pledge, Avient is an ACC Responsible Care® and Great Place to Work® certified company and a founding member of the Alliance to End Plastic Waste. The company is committed to its customers, employees, communities and shareholders through ethical, sustainable and fiscally responsible principles.

As one of the world’s leading specialty polymer materials, services and solution companies, Avient contributes to value creation with innovative and sustainable solutions for customers from many industries. Through collaboration, innovation and excellence, our product portfolio is designed to ensure our customer’s success. Additionally, our research and development is focused on finding innovative solutions to many of the key challenges facing society today. These include energy efficiency, renewable raw materials, light weighting and conserving natural resources.

We aim to create a world-class sustainable organization through continual improvement in the four cornerstones of our commitment to Sustainability:

- **People** – by keeping safety first, then hiring and developing our global team to then deliver to our customers with ethics and integrity
- **Products** – by innovating material solutions and services that help our customers meet their product and sustainability goals
- **Planet** – by conducting operations that minimize impact to the environment and natural resources, while committing to helping areas and communities that are distressed or undeserved.
- **Performance** – by delivering growth and value creation for all our stakeholders.

As a leading company in the field of specialty polymer materials, services and solutions, Avient does not limit itself to simply complying with the legal requirements, but also takes part in a variety of voluntary sustainability programs, including commitments to the Responsible Care® principles, Alliance to End Plastic Waste, Operation Clean Sweep® as well as self-initiated commitments such as its Code of Conduct and Code of Supplier Conduct.

In all of its activities, Avient puts high emphasis on environmental protection and safety. The company’s internal standards and management systems on environment, health and safety are certified to the Responsible Care Management System. In addition, Avient has ISO 9001 worldwide and ISO 14001 and ISO 50001 certification at many facilities. Each production facility adheres vigorously to the company’s global standards that ensure safe and environmentally friendly operations.

In Avient’s product portfolio, clear sustainability criteria were established and are marketed as Sustainable Solutions based upon the FTC’s Guidelines for the Use of Environmental Marketing Claims. These guides, developed by the Federal Trade Commission, consist of general principles and specific guidance on the use of particular environmental claims. Products that are renewable, re-usable, recyclable, have an eco-conscious composition, or meet resource efficiency guidelines fall within this category. On this basis, company products and solutions are reviewed and classified in terms of their sustainability performance. Upon this, measures can be built for strategic decision-making in investments on product development as well as communication.

Avient has defined our Sustainability Portfolio in the eight ways we help our customers meet their innovation and sustainability goals through material science. This portfolio has grown at a compounded annual growth rate of 14% since 2016, and the megatrends of the future indicate continued growth and demand. In 2019, we delivered \$410 million in sustainable solutions sales, as defined using criteria aligned with the FTC 2012 Guide for the Use of Environmental Marketing Claims. The impact and breadth of these solutions is immense, evidenced by the **\$1.36 Billion** in sales of these materials from **2016-2019**.

As the world begins to shift from operating in a linear economy to a circular economy, Avient is proud to be a part of the solution. Through our design expertise and material science, we help our customers increase post-consumer recycled content, formulate with bio-based materials, use less material during production, reduce energy required for production, and build alternative energy applications to name a few. In fact, approximately 60% of the revenue generated from sustainable solutions last year came from products designed for resource conservation.

C0.2

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

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for
Reporting year	January 1 2019	December 31 2019	No	<Not Applicable>

C0.3

(C0.3) Select the countries/areas for which you will be supplying data.

Belgium
Brazil
Canada
China
Czechia
Finland
France
Germany
Hungary
India
Italy
Luxembourg
Mexico
Netherlands
Peru
Poland
Saudi Arabia
Singapore
Spain
Thailand
Turkey
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.

Financial control

C-CH0.7

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

Row 1

Bulk organic chemicals

Please select

Bulk inorganic chemicals

Please select

Other chemicals

Other, please specify (Polymer Compounding)

C1. Governance

C1.1

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

Yes

C1.1a

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

Position of individual(s)	Please explain
Chief Executive Officer (CEO)	Climate-related issues are the responsibility of Avient's Chief Executive Officer (CEO), who has been a member of Avient's Board of Directors (BOD) since 2014. Our CEO is the leader of Avient's Operating Council, which is a group comprised of executive leaders across various functional areas that periodically report to the BOD. The Operating Council has direct oversight of our Sustainability Council which is a group-wide steering committee for climate-related issues. Additionally, the BOD established the Environmental Health and Safety (EHS) Committee, who is responsible for the ongoing assessment of the environmental landscape, including operational impacts, compliance with environmental requirements, and status and performance of various programs. At Avient, we believe that our CEO, who has direct responsibility and oversight across all functional areas at Avient, is the most appropriate individual to manage climate-related issues. An example of a climate-related decision made by the CEO is the approval in 2019 of a 100,000 MWh/year Renewable Energy VPPA in the United States.
Board-level committee	Avient's Board recently collectively reviewed its role, and the roles of the Avient Board Committees, in sustainability and ESG. In connection with that review, the Board determined that it would be responsible for understanding and overseeing sustainability trends (including climate change related issues) and their impacts on the business and strategy, with input from, and upon recommendations of, the Governance and Corporate Responsibility Committee (the G&CR Committee). This responsibility includes the incorporating sustainability objectives into the strategic plan when appropriate. The Board would also periodically consider the Company's 4 P's of Sustainability: • People: Review matters related to corporate culture – workforce of the future, succession planning, talent reviews, safety, diversity and inclusion, community service, and ethics and transparency. • Products: Review Sustainable Solutions portfolio of product offerings and innovation relating to sustainability and sustainability trends. • Planet: Review overall environmental stewardship, alliances and partnerships, progress as an ACC Responsible Care® Company. • Performance: Review financial performance and growth. Other responsibilities of the full Board include: • Reviewing reports and disclosures on corporate responsibility and/or sustainability published by the Company (following G&CR Committee review). • Conducting an annual Enterprise Risk Management review. • Reviewing the Company's Great Places To Work (GPTW) employee engagement survey results / action items.
Other, please specify (Governance and Corporate Responsibility Committee)	The Company's G&CR Committee is also tasked with providing oversight and guidance with regard to how the Board and management evaluate and integrate corporate responsibility and sustainability (including climate change related issues) into the Company's business strategy and decision-making. Other responsibilities of the G&CR Committee include: • Understanding the various Environmental, Social, & Governance (ESG) reporting standards and applicability to Avient, taking into account the proxy advisory firm ratings and perspectives. • Reviewing management plans to improve ESG scores where needed. • Reviewing reports on corporate responsibility and/or sustainability published by the Company. • Considering / reviewing director training in general and for sustainability topics.
Other, please specify (Environmental, Health and Safety Committee of the Board of Directors)	The Company's Environmental, Health and Safety Committee (EH&S Committee) is also tasked with exercising oversight with respect to the Company's environmental, health, safety, physical security and product stewardship policies and practices and the Company's compliance with related laws and regulations. This includes the following: • Reviewing with management the Company's safety performance. • Reviewing the Company's Supplier Code of Conduct for ongoing relevance. • Reviewing the procedures associated with responsible and ethical sourcing. • Reviewing with management the systems that are in place to monitor and mitigate the Company's carbon footprint. • Monitoring EH&S metrics related to sustainability topics, including: greenhouse gas emissions, air quality, energy management, water management, hazardous waste management. The EH&S Committee is also responsible for reviewing significant risks and exposures regarding environmental, health and safety concerns with management. This includes: • Monitoring potential risks and opportunities related to climate change impacts on the physical environment (weather events, increasing temperatures, rising sea levels, etc.). • Monitoring risks resulting from regulation related to legal, regulatory, policy, or liability issues associated with climate change. • Monitoring potential transitional risks associated with the migration toward a low-carbon economy
Other, please specify (Audit Committee)	The Company's Audit Committee is also tasked with assisting the Board in fulfilling its oversight responsibilities to shareholders relating to the Company's compliance with legal and regulatory requirements. This includes: • Ensuring quality and timeframe of sustainability and other corporate disclosures contained in financial and other reports (e.g., environmental) • Reviewing the Company's cyber and data privacy programs • Reviewing and discussing with management and the internal and independent auditors compliance with the Company's Code of Business Conduct and Ethics; review and discuss with management, the general counsel and the independent auditor the Company's compliance with laws and regulations; advise the Board with respect to the Company's policies and procedures regarding compliance with the Company's Code of Business Conduct and Ethics.
Other, please specify (Compensation Committee)	The Company's Compensation Committee is tasked with providing policy guidance and oversight on compensation policies and practices. This includes: • Ensuring compensation is aligned with pay for performance and competitive in the marketplace. • Reviewing peer company data and monitor trends and regulatory updates relating to executive compensation. • Reviewing proxy statement for ESG disclosures related to compensation philosophy.

C1.1b

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

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Scope of board-level oversight	Please explain
Scheduled – some meetings	Reviewing and guiding risk management policies Monitoring implementation and performance of objectives	<Not Applicable>	As mentioned above, the Board and its Committees recently determined their specific roles and responsibilities as it relates to sustainability and ESG (including climate-related issues). These responsibilities will be addressed at regular meetings of the Board and its committees and will be monitored periodically through performance evaluations of each Board member, each Board Committee, and the Board as a whole.

C1.2

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

Name of the position(s) and/or committee(s)	Reporting line	Responsibility	Coverage of responsibility	Frequency of reporting to the board on climate-related issues
Chief Executive Officer (CEO)	<Not Applicable>	Both assessing and managing climate-related risks and opportunities	<Not Applicable>	Quarterly
Other, please specify (Vice President, Sustainability)	<Not Applicable>	Other, please specify (Our Vice President, Sustainability is responsible for interfacing across a complex landscape of industry stakeholders to lead initiatives that help us achieve our sustainability goals, including those related to climate-related issues.)	<Not Applicable>	Quarterly
Other, please specify (Sustainability Council)	<Not Applicable>	Other, please specify (The ultimate goal of our Sustainability Council is to drive sustainable performance aligned with Avient's mission and 4P cornerstones (People, Products, Planet and Performance), with a focus on Product and Planet.)	<Not Applicable>	More frequently than quarterly

C1.2a

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

i. When in the organizational structure this position (s) and / or committee (s) lie:

Corporate sustainability and climate-related issues are the responsibility of Avient's highest-level officer, our Chairman, President and Chief Executive Officer (CEO), who is also a member of the Board of Directors. Our Board and each Board committee have considered their roles in sustainability and ESG, and have approved responsibilities that will guide the actions of each Board/Committee.

In addition, our CEO is a member of Avient's Operating Council, which is a group comprised of executive leaders across various business units and functional areas within Avient that periodically report to the Board of Directors. Additionally, our Operating Council includes representation from all business and functional areas within Avient, which helps ensure our sustainability strategy encompasses all areas of our business. The Operating Council is responsible for oversight of the Sustainability Council, whose charter provides that its ultimate goal is to drive sustainable performance aligned with Avient's mission and its 4P Strategy, with a focus on Product and Planet.

ii. A rationale of why responsibilities for climate-related issues have been assigned to this / these position (s) and / or committee (s)

At Avient, we understand that climate-related issues have the potential to impact our business in a variety of ways. We believe that our CEO, who has direct responsibility and oversight across all functional areas at Avient, is the most appropriate individual to manage and hold people accountable for climate-related issues. Climate change impacts are continually monitored and are an ongoing responsibility of our CEO to manage on behalf of the company. Our CEO is ultimately accountable to our Board, and our Board also has determined that it has responsibility for overseeing the actions of the CEO (and management) in these areas.

iii. Specific responsibilities of every position and / or committee with regard to the assessment and management of climate-related issues

In 2018, Avient outlined how we define sustainability and the progress we are making in each of our four focus areas: People, Products, Planet, and Performance. Our CEO, as well as our Operating Council, Sustainability Council, and Board and Board Committees (specifically, our EH&S Committee) are responsible for assessing and managing climate-related issues that fall within these pillars. Our EH&S Committee, Sustainability Council, and associates are our first line of defense in terms of assessing operational and business risks related to climate change and ensuring we are continually making progress and improvements to our goals.

In 2019, we made many exciting advancements within our four sustainability corner-stones, but also acknowledge that there is more work to be done. To help us advance more quickly within these areas, we created various key performance indicators to ensure we are appropriately engaging with the complex landscape of industry stakeholders and making progress towards our sustainability goals. Furthermore, our VP of Sustainability has direct management of our Sustainability Council and is also tasked with ensuring the appropriate elevation of climate-related issues to the CEO, Operating Council, and Board of Directors. For example, our VP of Sustainability has leveraged our Responsible Care Management System in a way that ensures focus on identifying and monitoring climate-related risks at a corporate level.

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	

C1.3a

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

Entitled to incentive	Type of incentive	Activity incentivized	Comment
All employees	Monetary reward	Emissions reduction project Energy reduction project Efficiency project	We celebrate, reward and share our associates' great work through our global recognition programs. Amongst other areas, each of these programs has awarded individuals and groups for their efforts in advancing Avient's position in natural resources conservation, waste minimization, the advancement of low-carbon/sustainable polymer solutions for our customers, etc. Listed below are some examples of our global recognition programs: You Made a Difference Awards Recognizes associates who go above and beyond their job responsibilities on a project or task. (Monetary) Spotlight Awards Recognizes associates for their typical duties on a project or task that has a significant impact on the organization. (Monetary) Chairman's Awards Associate Our Chairman's Achievement Award recognizes excellence in the execution of Avient's four-pillar strategy. It's the highest honor a non-sales associate can receive at our company. (Monetary) Sales Our Chairman's Club Award recognizes our top 25 sellers and one sales manager for their outstanding performance and living our values of Collaboration, Innovation and Excellence. (Monetary)
Management group	Monetary reward	Behavior change related indicator	Leadership Our Chairman's Leadership Award recognizes our top performing General Manager for performance, culture and inspirational leadership. (Monetary)
Board/Executive board	Monetary reward	Emissions reduction target Energy reduction target Behavior change related indicator Company performance against a climate-related sustainability index	In addition to options, warrants and rights, Avient's Equity and Incentive Compensation Plan authorizes the issuance of restricted stock, restricted stock units, performance shares and awards to Non-Employee Directors. As mentioned previously, the Board responsibilities have been revised to include the oversight of sustainability trends (including climate change related issues) and the incorporation of sustainability objectives into the company's strategic plan. For this reason, the Board is as well entitled to incentives for the management of climate-related issues.

C2. Risks and opportunities

C2.1

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

Yes

C2.1a

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

	From (years)	To (years)	Comment
Short-term	0	5	
Medium-term	5	15	
Long-term	15	30	

C2.1b

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

We consider a substantive financial or strategic impact when revenues figures are impacted by at least 0.5%, which according to Avient's 2019 revenues (\$2.9b), equates to \$15m impact.

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

More than once a year

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Avient's Enterprise Risk Management process helps identify and assess climate-related risks at a company-level. This process focuses on financial, operational, and reputational risks. As part of this process, we utilize an interview process with our executive management team and ERM risk owners to assess both the likelihood and potential impact for each individual risk. Assessment is made both before and after consideration of our mitigating activities. We also communicate this information to our leadership and other relevant internal stakeholders through heat-maps that visually represent our area of low, medium, and high areas of risk. Additionally, we have created a governance framework within Avient to further help us identify and assess climate-related risks at a company level. For example, Our CEO, as well as our Executive Operating Council, Sustainability Council, and EHS Committee are responsible for assessing and managing climate-related issues that fall within our four strategic pillars. Our EHS Committee, Sustainability Council, and associates represent our first line of defence in terms of assessing operational and business risks related to climate change and ensuring we are continually making progress and improvements to our goals. Case Study Physical Risks: Avient's Enterprise Risk Management process identifies and assesses physical risks including extreme weather events at company level on a periodic basis. The type of risks that are evaluated can cause operations disruption and property loss. For instance, in August 2017, Category 4 Hurricane Harvey impacted business operations and damaged property at Seabrook, TX, LaPorte, TX, and Pasadena, TX. Avient's Enterprise Risk Management process evaluates the financial impact of physical risks in the form of direct and indirect impacts on operations. For example, the increased operational cost or lost revenue from business interruption, mitigation planning, contingencies and insurance for both direct operations as well as indirect impacts in the supply chain are considered. Case Study Transition Risks: Avient's Enterprise Risk Management process also identifies and assesses transitional risk. For instance, all risks associated with technological improvements or innovations that support the transition to a lower-carbon, energy-efficient economic system are evaluated. Avient's ERM process evaluates potential new technologies that could displace old products and services and related direct and indirect impacts on the business. For example, as polymer finishing technology evolves at a rapid pace, factors such as susceptibility to climate policy, inherent / embedded carbon costs for raw materials, recyclability, reusability, eco-conscious composition and resource efficiency of our products are regularly assessed. Our leadership in R&D helps insure we are on the cutting edge of our product impacts, through initiatives such as our Sustainable Solutions program.

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	<ul style="list-style-type: none"> • Example of the risk type In our operations, we must comply with product-related governmental law and regulations affecting the plastics industry. For example, current regulations that impact our operations include Restrictions on the use of Certain Hazardous Substances (RoHS, Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH), and others. We believe that compliance with current governmental laws and regulations regarding climate change and the environment will not have a material adverse effect on our financial position, results of operations, or cash flows. • Explanation of how it is included in climate-related risk assessments Current Regulations risks related to climate-change are included in Avient's overall Enterprise Risk Management process. In addition, the evaluation of potential additional costs and liabilities linked to current regulations is integrated in the ongoing management of plant operations and products produced at these plants.
Emerging regulation	Relevant, always included	<ul style="list-style-type: none"> • Example of the risk type An example of emerging regulation risks could be future carbon regulations in areas where we do business. Future carbon regulations could impact our overall operations and financial viability as an organisation. • Explanation of how it is included in climate-related risk assessments Emerging regulation risks related to climate-change are included as part of Avient's overall Enterprise Risk Management process. As emerging regulation risks arise, we use this process to review these risks, both frequency, likelihood, and severity calculations; and various scenario assessments are performed. Based on this assessment, our risk teams will develop an appropriate mitigation strategy to minimize overall impacts to our business.
Technology	Relevant, always included	<ul style="list-style-type: none"> • Example of the risk type Demand for and supply of our products and services may be adversely affected by several technological factors, some of which we have little ability to predict or control. Several factors include the inability to obtain raw materials or supply products to customers due to: - product obsolescence and technological changes related to climate-change issues that unfavorably alter the value/cost proposition of our products and services - competition from existing and unforeseen polymer and non-polymer-based products that reduce further impact on climate. • Explanation of how it is included in climate-related risk assessments Technology risks related to climate-change are included as part of Avient's overall Enterprise Risk Management process. As technology risks arise, we use this process to review these risks, both frequency, likelihood, and severity calculations, alongside various scenario assessments are performed. Based on this assessment, our risk teams will develop an appropriate mitigation strategy to minimize overall impacts to our business
Legal	Not relevant, explanation provided	<ul style="list-style-type: none"> • Explanation of why the risk type if not relevant to the company We've leveraged our Enterprise Risk Management process to evaluate all risks to our business, including legal risks. Based on the results of our assessment, legal risks from a climate-change perspective, are not significant enough to pose a substantial risk to our company in comparison to other climate-related and business risks.
Market	Relevant, always included	<ul style="list-style-type: none"> • Example of the risk type As consumer perception shifts towards more sustainable products, our overall market share can be impacted. These risks could result in changes to our products that we offer to our customers but could also be customer's perception of our operations. For example, we respond to CDP's Supply Chain response and externally communicate environmental-related information to our stakeholders in order to broaden our customer's understanding of our sustainability performance. • Explanation of how it is included in climate-related risk assessments Market risks related to climate-change are included as part of Avient's overall Enterprise Risk Management process. As market risks arise, we use this process to review these risks, both frequency, likelihood, and severity calculations, alongside various scenario assessments are performed. Based on this assessment, our risk teams will develop an appropriate mitigation strategy to minimize overall impacts to our business.
Reputation	Relevant, always included	<ul style="list-style-type: none"> • Example of the risk type As consumer perception shifts towards more sustainable products, we could face reputational risks related to climate change. These risks could result in changes to our products that we offer to our customers but could also be impacted by our customer's perception of our operations. For example, we respond to CDP's Supply Chain response and externally communicate environmental-related information to our stakeholders in order to broaden our customer's understanding of our sustainability performance and specifically how we are performing with regard to carbon emissions management. • Explanation of how it is included in climate-related risk assessments Reputational risks related to climate-change are included as part of Avient's overall Enterprise Risk Management process. As reputational risks arise, we use this process to review these risks, both frequency, likelihood, and severity calculations, alongside various scenario assessments are performed. Based on this assessment, our risk teams will develop an appropriate mitigation strategy to minimize overall impacts to our business.
Acute physical	Relevant, always included	<ul style="list-style-type: none"> • Example of the risk type Demand for and supply of our products and services may be adversely affected by acute physical factors, some of which we have little ability to predict or control. Several factors include the inability to obtain raw materials or supply products to customers due to uncontrollable factors, like severe weather (cyclones, extreme flooding, etc.) Our operations as well could be adversely affected by various risks inherent in conducting operations worldwide. Our operations are subject to several risks, including natural disasters. • Explanation of how it is included in climate-related risk assessments Acute physical risks related to climate-change are included as part of Avient's overall Enterprise Risk Management process. As acute physical risks arise, we use this process to review these risks, both frequency, likelihood, and severity calculations, alongside various scenario assessments are performed. Based on this assessment, our risk teams will develop an appropriate mitigation strategy to minimize overall impacts to our business.
Chronic physical	Relevant, always included	<ul style="list-style-type: none"> • Example of the risk type Demand for and supply of our products and services may be adversely affected by chronic physical factors, some of which we have little ability to predict or control. Several factors include the inability to obtain raw materials or supply products to customers due to longer-term shifts in climate patterns such as sea level rise or increased temperatures. We acknowledge that these longer-term shifts in climate patterns may result in increased operational costs as well. • Explanation of how it is included in climate-related risk assessments Chronic physical risks related to climate-change are included as part of Avient's overall Enterprise Risk Management process. As chronic physical risks arise, we use this process to review these risks, both frequency, likelihood, and severity calculations, alongside various scenario assessments are performed. Based on this assessment, our risk teams will develop an appropriate mitigation strategy to minimize overall impacts to our business.

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

Acute physical	Increased severity and frequency of extreme weather events such as cyclones and floods
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Primary potential financial impact

Decreased revenues due to reduced production capacity

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Demand for and supply of our products and services may be adversely affected by several factors, some of which we have little ability to predict or control. Several factors include the inability to supply products to customers due to event-driven weather events such as cyclones or extreme flooding.

Time horizon

Short-term

Likelihood

More likely than not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

15000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Our 2019 revenue, was \$2.9B - if our revenue figures were impacted by .5%, this could result in a \$15M impact.

Cost of response to risk

250000

Description of response and explanation of cost calculation

Avient's Enterprise Risk Management process identifies and assesses physical risks including extreme weather events at company level on a periodic basis. The type of risks that are evaluated can cause operations disruption and property loss. For instance, in August 2017, Category 4 Hurricane Harvey impacted business operations and damaged property at Seabrook, TX, LaPorte, TX, and Pasadena. Avient's Enterprise Risk Management process evaluates the financial impact of physical risks in the form of direct and indirect impacts on operations. For example, the increased operational cost or lost revenue from business interruption, mitigation planning, contingencies and insurance for both direct operations as well as indirect impacts in the supply chain are considered.

Comment

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Upstream

Risk type & Primary climate-related risk driver

Acute physical	Increased severity and frequency of extreme weather events such as cyclones and floods
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Primary potential financial impact

Decreased revenues due to reduced production capacity

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Demand for and supply of our products and services may be adversely affected by several factors, some of which we have little ability to predict or control. One example is the inability to obtain raw materials from our suppliers due to climate-related weather events. This could directly impact our market share and overall business.

Time horizon

Medium-term

Likelihood

More likely than not

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

15000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Our 2019 revenue, was \$2.9B - if our revenue figures were impacted by .5%, this could result in a \$15M impact.

Cost of response to risk

250000

Description of response and explanation of cost calculation

Avient's Enterprise Risk Management process identifies and assesses physical risks including extreme weather events at company level on a periodic basis. The type of risks that are evaluated can cause operations disruption and property loss. For instance, in August 2017, Category 4 Hurricane Harvey impacted business operations and damaged property at Seabrook, TX, LaPorte, TX, and Pasadena. Avient's Enterprise Risk Management process evaluates the financial impact of physical risks in the form of direct and indirect impacts on operations. For example, the increased operational cost or lost revenue from business interruption, mitigation planning, contingencies and insurance for both direct operations as well as indirect impacts in the supply chain are considered.

Comment

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Downstream

Risk type & Primary climate-related risk driver

Market	Changing customer behavior
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Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Climate related policy/technology/market/economic drivers have forced Avient to better understand how climate resilient the company is. We also understand that consumer preferences are shifting towards more sustainable products. To that end, the following steps are integrated into each of our four Strategic Pillars: (1) Assess climate vulnerability of operations and facilities, (2) embed climate risks into enterprise risk management programs, and (3) undertake scenario analysis to enhance decision making around risks and opportunities. As a premiere provider of polymer materials, services and solutions, Avient aims to embrace the challenges facing society and play an integral role in addressing them. Our overarching goal is to develop a robust strategy towards climate change that involves the building of a technological portfolio of mitigation and adaptation measures that includes sufficient opposite technological positions to the underlying baseline emission scenarios given the uncertainties of the entire physical and socioeconomic system in place.

Time horizon

Short-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)

15000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Our 2019 revenue, was \$2.9B - if our revenue figures were impacted by .5%, this could result in a \$15M impact.

Cost of response to risk

0

Description of response and explanation of cost calculation

Our management method of customer risks such as market impacts related to climate change primarily utilize our Enterprise Risk management process that helps to identify and assess climate-related risks such as these in a proactive manner. Depending on the likelihood and potential impact, an assessment is to determine appropriate next steps in terms of mitigation strategies. For Example, as polymer finishing technology evolves at a rapid pace, factors such as susceptibility to climate policy, inherent carbon costs, recyclability, reusability, eco-conscious composition and resource efficiency of our products are regularly assessed. Our leadership in R&D helps insure we are on the cutting edge of our product impacts, through initiatives such as our Sustainable Solutions program.

Comment

Costs are hidden within daily operations as it is integrated into overall strategy. Risk management, in its entirety, drives all strategic decisions.

Identifier

Risk 4

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Reputation	Stigmatization of sector
------------	--------------------------

Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

A lack of response to climate change-related issues could create a reputation risk for the business and, potentially, a competitive disadvantage. As providers of value-added solutions to designers, assemblers, and processors of plastics, we acknowledge there is a plastics waste problem and that single-use plastics are a serious climate change hazard. Furthermore, as consumer preferences are shifting towards more sustainable products, we understand that failure to address these issues could impact our reputation and negatively impact the demand for our products and services.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

15000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Our 2019 revenue, was \$2.9B - if our revenue figures were impacted by .5%, this could result in a \$15M impact.

Cost of response to risk

0

Description of response and explanation of cost calculation

Our Enterprise Risk management process helps us identify and assess climate-related risks such as Reputation risks in a proactive manner. Depending on the likelihood and potential impact, an assessment is done to determine appropriate next steps in terms of mitigation strategies. Regarding plastics waste, we are dedicated to doing our part through our innovative portfolio of technologies that improve plastic recyclability and reduce the amount of material required for food and beverage packaging. In addition, as a founding member of the Alliance to End Plastic Waste, we have invested in the group's goals of creating infrastructure, innovation, education, and cleanup efforts around the world.

Comment

Costs are hidden within daily operations as it is integrated into overall strategy. Risk management, in its entirety, drives all strategic decisions.

Identifier

Risk 5

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Chronic physical	Rising sea levels
------------------	-------------------

Primary potential financial impact

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

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Avient operates globally with manufacturing sites and distribution facilities in North America, South America, Europe and Asia. We own the majority of our manufacturing sites and lease our distribution facilities. Our Assets may be adversely affected by several factors, some of which we have little ability to predict or control. Several factors include longer-term shifts in climate patterns (e.g. sustained higher temperatures) that may cause sea level rise or chronic heat waves. We acknowledge that these longer-term shifts in climate patterns could decrease asset value, useful life and increase operational costs as well.

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

15000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Our 2019 revenue, was \$2.9B - if our revenue figures were impacted by .5%, this could result in a \$15M impact.

Cost of response to risk

0

Description of response and explanation of cost calculation

Our Enterprise Risk management process helps us identify and assess climate-related risks such as Chronic Physical risks in a proactive manner. Depending on the

likelihood and potential impact, an assessment is done to determine appropriate next steps in terms of mitigation strategies. Our ERM process and the Risk Management Committee frequently assesses property risks and provides guidance for Capital Investment decisions (like new Facilities development, existing facilities Divestment and Acquisitions, and so forth) to mitigate, among others, Chronic Physical risks that could cause decreased asset life, value write offs, insurance costs increase among others.

Comment

Costs are hidden within daily operations as it is integrated into overall strategy. Risk management, in its entirety, drives all strategic decisions.

Identifier

Risk 6

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

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

Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Energy Costs and raw material costs represent a substantial part of our manufacturing costs. Energy taxes and regulations, such as Renewable Energy Portfolio standards and carbon Pricing mechanisms, have the potential to increase operating costs for Avient if they are not managed. Every 10% increase in the cost of electricity and natural gas to power our facilities has the potential to increase Avient's operating costs by approximately \$3 million, if left unmitigated.

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

3000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Avient incurs operating expenses associated with its energy use. If fuel/energy taxes and regulations were to result in a 10% increase in the cost of electricity and natural gas, this would have the potential to increase Avient's operating costs by approximately \$3 million annually, if left unmitigated.

Cost of response to risk

0

Description of response and explanation of cost calculation

Avient continues to manage this risk with a thorough energy management plan overseen by the Energy Management Committee. Avient actively manages its energy use, made significant investments in energy efficiency technologies, renewable energy projects, and has executed a PPA. Key activities include: monitoring regulations; implementation of best practices; the continuous monitoring and reporting of kwh results; use of efficient lighting for enclosed common areas, parking structures, and parking lots; use of efficient chillers and roof top HVAC units; and use of energy management systems to control electrical and mechanical systems. For instance, in 2019 59 Energy Savings projects, that cumulatively reduce yearly energy consumption by more than 10,000 MWh and yearly emissions by more than 4300 MT CO2e, have reduced the company exposure to commodity fluctuations and regulatory changes.

Comment

Costs are hidden within daily operations as it is integrated into overall strategy. Risk management, in its entirety, drives all strategic decisions.

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?

Downstream

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 through access to new and emerging markets

Company-specific description

Global challenges like climate change, demographic shifts and dwindling resources have prompted Avient to establish programs such as our Sustainable Solutions. Within this offering, the overall sustainability of the company, with a focus on product sustainability, are addressed through defined standards for areas such as recyclability, reusability, eco-conscious composition, or resource efficiency. Where products meet Avient's sustainability standard, they carry the Sustainable Solutions label which also helps our customers achieve their sustainability goals through product offerings that have a lower overall emissions footprint.

Time horizon

Long-term

Likelihood

Virtually certain

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

2000000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Avient envisions our ongoing transformation to specialty provider of polymer materials, services and solutions has the potential to double the size of the company

Cost to realize opportunity

56000000

Strategy to realize opportunity and explanation of cost calculation

Our Research and Development teams are continually tasked with the development of new products and services, while continuing to adhere to standards defined by programs such as our Sustainability Solutions, where possible. Avient understands the financial value that increased consumer demands for these lower emissions products can bring and has sought to appropriately invest capital and resources to ensure we maintain this competitive advantage. Our technology goals are aligned with our sustainability goals to drive sustainable innovation. As the world continues to shift from a linear economy to a circular economy, we will continue to help our customers increase post-consumer recycled content, formulate with bio-based materials, use less material during production, reduce energy required for production, and build alternative energy applications. Innovation is made possible through our prior investments to build deep material science expertise on our team, and since 2014, we have increased our technical resources by 33%.

Comment

Cost to Realize opportunity explanation: (Annual R&D spend (\$56M) - % spent on sustainable products)

Identifier

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Energy source

Primary climate-related opportunity driver

Use of lower-emission sources of energy

Primary potential financial impact

Reduced indirect (operating) costs

Company-specific description

Demand and supply of our products and services may be adversely affected by several factors, some of which we cannot predict or control. For example, changes in laws and regulations, such as expansion of cap and trade programs, could increase our costs spent on energy. We believe there are opportunities to both reduce current operational costs as well as future operational costs by investing in the use of lower emissions sources of energy. In 2019, we made the decision to execute of a Virtual Power Purchase Agreement that will cover 100,000 MWh of our U.S. load with renewable energy. Furthermore, Avient is currently evaluating Virtual Power Purchase Agreements in Europe.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

3000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Avient spends more than \$30M on electricity costs alone. If the execution of a VPPA helps offset or hedge future electricity costs by 10%, this could result of upwards of \$3,000,000 USD.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

The strategy to realize this opportunity came through ongoing engagement with a third-party that helps elevate and identify renewable opportunities across our portfolio. Because regulations and markets continually change, we've leveraged this third-party to provide ongoing insight into opportunities, such as our VPPA.

Comment

While there were minimal direct legal costs that were incurred as part of this strategy, most costs were included as part of normal business practices.

Identifier

Opp3

Where in the value chain does the opportunity occur?

Downstream

Opportunity type

Products and services

Primary climate-related opportunity driver

Shift in consumer preferences

Primary potential financial impact

Increased revenues through access to new and emerging markets

Company-specific description

We acknowledge that our customers perception and expectations around sustainable products are increasing. Our proven ability to innovate materials that enable our customers' sustainability goals remains a differentiator for Avient. We have created a Sustainable Solutions product group that specifically focuses on products that are more sustainable for our consumers.

Time horizon

Short-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)

41000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Our direct revenue from our Sustainable Solutions group in 2019 was \$410M, and has been growing at a compounded annual growth rate of 14% since 2016.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

Plastics increase our quality of life by providing convenience, health, safety and sustainability benefits in nearly every end market. As the world begins to shift from operating in a linear economy to a circular economy, Avient is proud to be a part of the solution. Through our design expertise and material science, we help our customers increase post-consumer recycled content, formulate with bio-based materials, use less material during production, reduce energy required for production, and build alternative energy applications. As such, the carbon emissions footprint of our product is reduced. In 2019, 60 percent (\$250M/\$410M) of the revenue generated from sustainable solutions came from products designed for end use-phase resource efficiency. Our proven ability to innovate materials that enable our customers' sustainability goals remains a differentiator for Avient. We've have guiding principles that are outlined in our No Surprises Pledge. A crucial enabler to living this Pledge is having deep material expertise on our team and we have invested heavily in this area. Our portfolio has grown at a compounded annual growth rate of 14% since 2016, and current megatrends indicate continued growth and demand. From lightweighting to the Circular Economy, our position in the value chain enables us to help our customers reach their sustainability goals. Additionally, in order to lower our direct operational emissions to produce these products, we have engaged with a third-party that helps elevate and identify renewable opportunities across our portfolio, such as our VPPA that we're exploring.

Comment

While there were minimal direct costs that were incurred as part of this strategy, most costs were included as part of normal business practices.

Identifier

Opp4

Where in the value chain does the opportunity occur?

Upstream

Opportunity type

Energy source

Primary climate-related opportunity driver

Use of lower-emission sources of energy

Primary potential financial impact

Reduced direct costs

Company-specific description

The cost of natural gas, electricity, fuel and raw materials is a substantial part of our overall manufacturing costs and it may not correlate with the prices we received for our products and services. In an increasingly decarbonized and electrified economy, we may witness a substantial decrease of demand for oil and gas products that, if not matched by equivalent decrease in supply, may durably lower commodity prices and ultimately decrease our manufacturing costs, improving the profitability of our business.

Time horizon

Long-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

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

0

Strategy to realize opportunity and explanation of cost calculation

We actively contribute to the transition to a lower carbon economy through our Sustainability Portfolio, that helps our customers meet their innovation and sustainability goals through material science. In fact, from lightweighting to renewable energy applications to improved recyclability, Avient has a robust portfolio of sustainable solutions that enable the decarbonization of the economy. Additionally, sourcing local raw materials helps to mitigate climate risks related to importing and exporting.

Comment

Most costs were included as part of normal business practices.

Identifier

Opp5

Where in the value chain does the opportunity occur?

Downstream

Opportunity type

Resource efficiency

Primary climate-related opportunity driver

Use of more efficient modes of transport

Primary potential financial impact

Reduced direct costs

Company-specific description

As the transportation sector grows, it produces increasing levels of carbon emissions that contribute to climate change. In response to these climate risks, Avient continues to invest in global optimization strategies to reduce our footprint associated with product and raw material transport.

Time horizon

Long-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

For example, we implemented logistics procedures to minimize the total number of freight trains in use and trucks on the road. By optimizing freight lanes from customers

and suppliers, we reduce the consumption of natural resources and reduce our carbon emissions. This opportunity presents us with the opportunity to realize cost and carbon emissions savings.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

Most costs were included as part of normal business practices.

Comment

C3. Business Strategy

C3.1

(C3.1) Have climate-related risks and opportunities influenced your organization's strategy and/or financial planning?

Yes

C3.1a

(C3.1a) Does your organization use climate-related scenario analysis to inform its strategy?

No, but we anticipate using qualitative and/or quantitative analysis in the next two years

C3.1c

(C3.1c) Why does your organization not use climate-related scenario analysis to inform its strategy?

Avient recognizes the value that scenario analysis could provide in terms of analysing future climate-related risks and opportunities.

However, as we have prioritized our resources to focus on near term operational aspects within our sustainability program, climate-related scenario analysis has not been used yet to inform our business strategy.

Nevertheless, Avient is evaluating a variety of approaches to implement climate related scenario analysis.

As we evaluate the qualitative and quantitative approaches to climate scenario analysis, we plan as well to integrate those outcomes as part of our Enterprise Risk Management process for use in assessing future risks and opportunities presented by various physical and transitional risk scenarios.

We will be evaluating both direct and indirect operations to assess short- and long-term climate financial and other various risks for our portfolio.

C3.1d

(C3.1d) 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	Climate-related risks and opportunities influence our strategy in the decision of the products and services we bring to market. Our strategic planning process enables stakeholders to align their business strategies with sustainability strategies. Sustainability mega-trends, like the circular economy and renewable energy, drive business strategies and decisions. For example, product innovations are aligned with specific sustainability categories. Our Sustainability Portfolio helps our customers meet their innovation and sustainability goals through material science. From light weighting to renewable energy applications to improved recyclability, Avient has developed a robust portfolio of sustainable solutions. This strategy has proven successful. In 2019, we delivered \$410 million in sustainable solutions sales, increasing revenue from sustainable solutions across all businesses and across all Sustainability categories by 14% since 2016. Through our Sustainable Portfolio we make a positive impact in applications in nearly every end market. For instance, our packaging color and additive technologies are used to: • Reduce material usage • Reduce energy requirements (and thus carbon emissions) • Reduce spoilage and protect food and beverages • Improve the inherent recyclability of the container • Improve the ability to use automated sorting technology for reclamation • Improve the physical performance and reuse potential of reclaimed materials These solutions help address the challenges presented by plastic waste ending up in the environment. While the technology and economics of global reclamation infrastructure continue to improve, there are still tremendous opportunities to put innovative new technologies to work to support effective and economically viable reclamation and reuse.
Supply chain and/or value chain	Yes	Climate related risks and opportunities associated with up-stream and down-stream stakeholders have influenced our strategy in the following ways: Avient's Supplier Code of Conduct sets clear expectations for upstream business partners in the areas of environmental and climate performance. Performance against these expectations is assessed via third party reviews of management systems in place. Feedback and action plans are developed where necessary. Avient actively partners with downstream stakeholders to ensure that our operations, and the polymer solutions we bring to them, facilitate their success in managing climate-related risks important to them. We are an active "CDP Supply Chain Partner" and continually interact through our commercial organization to ensure customer success.
Investment in R&D	Yes	Climate-related risks and opportunities associated with technological improvements or innovations that support the transition to a lower-carbon, energy-efficient economic system influence our strategy in research and development of new Products. We implemented a Sustainability Scorecard that improved R&D focus on sustainability. The Scorecard operates as a benchmark for sustainability, assessing the viability and effectiveness of sustainable opportunities. It also determines how we launch sustainable products. Avient is leading an internal directional movement to implement digital science and data methods to reduce our environmental impact. We localize R&D solutions to enable environmental benefits, such as reduced energy use, decreased water use, and fuel savings. A clear example is our Sustainability Portfolio, that has been developed to help our customers meet their innovation and sustainability goals through material science. From light weighting to renewable energy applications to improved recyclability, Avient has developed a robust portfolio of sustainable solutions. This strategy has proven successful. In 2019, we delivered \$410 million in sustainable solutions sales, increasing revenue from sustainable solutions across all businesses and across all Sustainability categories by 14% since 2016. For instance, one of our innovative products can be found in floating solar panels. This alternative energy solution has its challenges and existing industry solutions fail to protect panels from outdoor exposure and harsh weather conditions. Avient's leadership in R&D made a huge difference for one customer. Smartbatch™ Color and Additive Concentrates offered unparalleled UV weathering protection color concentrates for their solar power stations. Smartbatch™ also enhanced the customer's power generation efficiency by 10%, while providing shielding to prevent algae growth. We helped them reduce their carbon footprint by reducing evaporation. Solutions like these contribute to make solar energy a more affordable and resilient sustainable solution to address the challenges of increasing energy demand, decreasing natural resources, and a changing environment.
Operations	Yes	Climate related risks influence our operations strategy. For instance, energy costs represent a substantial part of our manufacturing costs and emerging regulation changes that counter the adverse effects of climate change can have an important impact on these costs. For this reason, our Energy Management Committee evaluates risks and opportunities and defines accordingly the most effective strategy. This strategy then translates into concrete initiatives: Avient actively manages its energy use, made significant investments in energy efficiency technologies, renewable energy projects, and has signed a PPA in 2019. For example, 59 Energy Savings projects that cumulatively reduce yearly energy consumption by more than 10,000 MWh and reduce emissions by more than 4300 MT CO2e have been implemented in 2019, hence reducing the company exposure to commodity fluctuations and regulatory changes.

C3.1e

(C3.1e) 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	Direct costs Capital expenditures Access to capital Assets	<p>• Direct Costs As Avient operates globally with manufacturing sites and distribution facilities in North America, South America, Europe and Asia. For this reason, we must deal diverse and complex energy markets that present many risks and opportunities. To manage such aspects, the Energy Management Committee has partnered with a global specialist in energy management, that enables a holistic approach that maximizes benefits while mitigating risks. This partnership enables a more robust budgeting and financial planning cycle, a more strategic sourcing of options (pure commodity sourcing and GOs among others) while leveraging to advance risk management solutions to address the challenges of an ever volatile and changeable environment, such as any legislative changes (opportunities & threats linked to carbon taxes for instance) that may threaten our portfolio. An example of a direct result of this integrated process, in 2019 we have made the decision to execute a virtual power purchase agreement that will cover 100 GWh of US load with Renewable Energy. Time horizon covered by the financial planning process for Direct Costs: short term to 5 years out.</p> <p>• Access to Capital Climate-related risks and opportunities have influenced Avient's access to Capital. Together with consumer preferences shifting towards more sustainable products, investors are seeking to increase their investment in companies providing low-carbon and climate resilient goods and services. A lack of response to climate change-related issues could create a risk for our business and threaten our access to capital. For this reason, Avient is committed to improve climate-related issues management at a corporate level and reducing emissions beyond business-as-usual scenario. As part of this effort, Avient has issued in 2019 its first Sustainability report to highlight the contributions we're making in the areas of People, Products, Planet and Performance – our four cornerstones of sustainability. In addition, in 2019 we have made our first public disclosure through CDP Climate Change questionnaire. These efforts not only are a means for continuous improvement and better decision-making, but also improve transparency, help increase stakeholder trust and improve access to capital. Time horizon covered by the financial planning process for Access to Capital: long term.</p> <p>• Capital Expenditures In Avient when we evaluate Capital expenditure decisions, we classify the investment opportunity in three main categories: quality, productivity and Environmental Health and Safety (EHS). To arbitrate between different options and further support investments in clean and lower-carbon solutions even when they do not present the most attractive returns, we give a higher weighting factors to EHS projects that ultimately improve overall scores and prioritize them in our investment decision matrix. In 2019, Avient directed \$7.87 MM towards environmental, health and safety capital improvements. As a direct result of this policy we have implemented in 2019 59 Energy Savings projects that cumulatively reduce yearly energy consumption by more than 10,000 MWh and reduce emissions by more than 4300 MT CO2e , and each year more an increasing number of projects are screened. Time horizon covered by the financial planning process for Capital Expenditures: short term to 5 years out.</p> <p>• Assets In Avient climate-related risks and opportunities have influenced our financial planning when it comes to Assets. For instance, our ERM process and the Risk Management Committee frequently assess property risks and opportunities and provides guidance on Asset Management (for instance for new Facilities development and existing facilities Divestment or Acquisitions) to mitigate, among others, Physical risks that could cause decreased asset life, value write-offs, insurance costs increase among others. Such process and guidance are fully integrated in our financial planning, which outlook can span from short term to long term. Time horizon covered by the financial planning process for Assets: short term to 5 years out.</p>

C3.1f

(C3.1f) Provide any additional information on how climate-related risks and opportunities have influenced your strategy and financial planning (optional).

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

Year target was set

2019

Target coverage

Company-wide

Scope(s) (or Scope 3 category)

Scope 2 (market-based)

Base year

2019

Covered emissions in base year (metric tons CO₂e)

95547

Covered emissions in base year as % of total base year emissions in selected Scope(s) (or Scope 3 category)

100

Target year

2024

Targeted reduction from base year (%)

47.1

Covered emissions in target year (metric tons CO₂e) [auto-calculated]

50544.363

Covered emissions in reporting year (metric tons CO₂e)

95547

% of target achieved [auto-calculated]

0

Target status in reporting year

New

Is this a science-based target?

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

Please explain (including target coverage)

In 2019, Avient committed to reduce its Scope 2 greenhouse gas emissions in the following five years by 45,000 equivalent metric tons of carbon dioxide.

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

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

2019

Target coverage

Company-wide

Target type: absolute or intensity

Absolute

Target type: energy carrier

Electricity

Target type: activity

Consumption

Target type: energy source

Renewable energy source(s) only

Metric (target numerator if reporting an intensity target)

MWh

Target denominator (intensity targets only)

<Not Applicable>

Base year

2019

Figure or percentage in base year

0

Target year

2024

Figure or percentage in target year

100000

Figure or percentage in reporting year

0

% of target achieved [auto-calculated]

0

Target status in reporting year

New

Is this target part of an emissions target?

Yes, Avient has committed to reduce its Scope 2 greenhouse gas emissions in the next five years by 45,000 equivalent metric tons of carbon dioxide.

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain (including target coverage)

In addition to on site renewable energy installations, Avient is actively working to procure energy from green sources in an effort to reduce its greenhouse gas emissions. Our goal is to increase the Renewable Energy sourced in our electricity mix by 100,000 MWh per year.

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	5	0
To be implemented*	1	43222
Implementation commenced*	8	2177
Implemented*	51	2149
Not to be implemented	2	0

C4.3b

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

Initiative category & Initiative type

Energy efficiency in buildings	Lighting
--------------------------------	----------

Estimated annual CO2e savings (metric tonnes CO2e)

1099

Scope(s)

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

222251

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

378123

Payback period

1-3 years

Estimated lifetime of the initiative

11-15 years

Comment

Aggregate of all lighting conversions to LED

Initiative category & Initiative type

Energy efficiency in production processes	Compressed air
---	----------------

Estimated annual CO2e savings (metric tonnes CO2e)

522

Scope(s)

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

76603

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

275851

Payback period

1-3 years

Estimated lifetime of the initiative

16-20 years

Comment

Aggregate of all improvements to the compressed air

Initiative category & Initiative type

Energy efficiency in buildings	Other, please specify (Worked with 3rd-party electric supplier to get electricity savings)
--------------------------------	--

Estimated annual CO2e savings (metric tonnes CO2e)

249

Scope(s)

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

100410

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

49290

Payback period

<1 year

Estimated lifetime of the initiative

11-15 years

Comment

Initiative category & Initiative type

Company policy or behavioral change	Other, please specify (Reduce energy consumption)
-------------------------------------	---

Estimated annual CO2e savings (metric tonnes CO2e)

132

Scope(s)

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

21635

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

50908

Payback period

1-3 years

Estimated lifetime of the initiative

Ongoing

Comment

Initiative category & Initiative type

Energy efficiency in buildings	Heating, Ventilation and Air Conditioning (HVAC)
--------------------------------	--

Estimated annual CO2e savings (metric tonnes CO2e)

91

Scope(s)

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

20398

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

92328

Payback period

4-10 years

Estimated lifetime of the initiative

11-15 years

Comment

Aggregate of all HVAC system improvements

Initiative category & Initiative type

Energy efficiency in production processes	Machine/equipment replacement
---	-------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

19

Scope(s)

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

4730

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

306000

Payback period

>25 years

Estimated lifetime of the initiative

3-5 years

Comment

Completed a dust collector project

Initiative category & Initiative type

Energy efficiency in production processes	Machine/equipment replacement
---	-------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

11

Scope(s)

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

3084

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

29787

Payback period

4-10 years

Estimated lifetime of the initiative

16-20 years

Comment

Add chiller to replace old chiller

Initiative category & Initiative type

Energy efficiency in production processes	Machine/equipment replacement
---	-------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

9

Scope(s)

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

2036

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

454000

Payback period

4-10 years

Estimated lifetime of the initiative

16-20 years

Comment

replace 45 ton chiller w/ 85 ton chiller

Initiative category & Initiative type

Company policy or behavioral change	Resource efficiency
-------------------------------------	---------------------

Estimated annual CO2e savings (metric tonnes CO2e)

9

Scope(s)

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

3996

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

0

Payback period

No payback

Estimated lifetime of the initiative

Ongoing

Comment

Instructed office employees to switch off hardware to the end of working day, during weekends and holidays & reduced amount of floor printers

Initiative category & Initiative type

Energy efficiency in production processes	Machine/equipment replacement
---	-------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

6

Scope(s)

Scope 2 (location-based)

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

864

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

1000

Payback period

1-3 years

Estimated lifetime of the initiative

3-5 years

Comment

Upgraded air guns to manually clean the pelletizers & classifiers

Initiative category & Initiative type

Company policy or behavioral change	Resource efficiency
-------------------------------------	---------------------

Estimated annual CO2e savings (metric tonnes CO2e)

2

Scope(s)

Scope 2 (location-based)

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

1400

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

280

Payback period

<1 year

Estimated lifetime of the initiative

Ongoing

Comment

Shut down chiller when outside temp is below a threshold

Initiative category & Initiative type

Energy efficiency in production processes	Machine/equipment replacement
---	-------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

1

Scope(s)

Scope 2 (location-based)

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

221

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

6220

Payback period

>25 years

Estimated lifetime of the initiative

3-5 years

Comment

replace ice machine for break room

Initiative category & Initiative type

Energy efficiency in production processes	Machine/equipment replacement
---	-------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

0

Scope(s)

Scope 2 (location-based)

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

4200

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

3300

Payback period

<1 year

Estimated lifetime of the initiative

6-10 years

Comment

Replaced old hand dryers with new

C4.3c

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

Method	Comment
Financial optimization calculations	Avient has developed an energy efficiency program that is driven by Corporate mandates to identify/execute/report energy savings activities at the facility level. Progress against this expectation is audited quarterly. Overarching goal of this objective is to identify savings potential through the calculation and analysis of energy consumption which drives optimized use of equipment and systems. In addition, when evaluating Capital expenditure decisions, we classify the investment opportunity in three main categories: quality, productivity and Environmental Health and Safety (EHS). To arbitrate between different options and further support investments in clean and lower-carbon solutions (that are classified as EHS) even when they do not present the most attractive returns, we give a higher weighting factors to EHS projects that ultimately improve overall scores and prioritize them in our investment decision matrix. In 2019, Avient directed \$7.87 MM towards environmental, health and safety capital improvements.
Compliance with regulatory requirements/standards	Avient believes that sustainable business success is closely tied to strict compliance with regulatory requirements and our own ethical standards.
Employee engagement	Expectations around energy savings activities communicated to all in conjunction with training and guidance for execution. Incentive programs made available to further promote participation.
Partnering with governments on technology development	An active program exists to periodically assess availability of government incentives related to greener technology use and development.

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products or that enable a third party to avoid GHG emissions.

Level of aggregation

Group of products

Description of product/Group of products

Avient's Sustainability Solutions have been cultivated in recognition that we are all responsible to keep the planet healthy and we wish to actively partner with our customers in their efforts to offer solutions to today's most pressing environmental needs. These include: Renewable, Reusable, Recyclable: OnCap™ BIO additives OnColor™ BIO colorants GLS OnFlex™ thermoplastic elastomers GLS Versaflex™ thermoplastic elastomers reSound™ natural fiber reinforced formulations reFlex™ plasticizers Nymax ND polymer formulations Arkema, Bayer, DuPont, MRC, and Eastman branded resins based on biopolymers, post-consumer recycle content, renewably source material, distributed by Avient Eco-Conscious Composition: ECCOH™ low smoke and flame, zero halogen (LSFOH) formulations OnCap™ additives Willflex™ screen printing inks Geon™ non-phthalate plastisols Gravi-Tech™ high density polymer formulations Edgetek™ AM non-halogen flame retardant formulations Trilliant™ healthcare thermoplastics Resource efficient: OnColor™ FX special effects OnCap™ CTR cycle time reduction performance additives OnCap™ blowing agents ECCOH™ Solar LSFOH formulations OnForce™ LFT long fiber technology polymer formulations Therna-Tech™ thermally conductive polymer formulations ColorMatrix Joule™ infrared absorbing additive Excelite™ liquid chemical foaming agent Geon™ FX Metal rigid vinyl formulations

Are these low-carbon product(s) or do they enable avoided emissions?

Low-carbon product and avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (US Federal Trade Commission Green Guides)

% revenue from low carbon product(s) in the reporting year

14

% of total portfolio value

<Not Applicable>

Asset classes/ product types

<Not Applicable>

Comment

C5. Emissions methodology

C5.1

(C5.1) Provide your base year and base year emissions (Scopes 1 and 2).

Scope 1

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

12767

Comment

Scope 2 (location-based)

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

87427

Comment

Scope 2 (market-based)

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

95547

Comment

C5.2

(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

IEA CO2 Emissions from Fuel Combustion
IPCC Guidelines for National Greenhouse Gas Inventories, 2006
The Greenhouse Gas Protocol: Public Sector Standard
The Greenhouse Gas Protocol: Scope 2 Guidance
US EPA Mandatory Greenhouse Gas Reporting Rule
US EPA Emissions & Generation Resource Integrated Database (eGRID)
Other, please specify (Reliable Disclosure Systems for Europe (RE-DISS))

C5.2a

(C5.2a) Provide details of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

The RE-DISS project aimed at improving significantly the reliability and accuracy of the information given to consumers of electricity in Europe regarding the origin of the electricity they are consuming. Such information is given to all consumers through the regime of electricity source disclosure, which is a requirement on all European suppliers of electricity.

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)

12767

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.2

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

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

We are reporting a Scope 2, market-based figure

Comment

C6.3

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

Reporting year

Scope 2, location-based

87427

Scope 2, market-based (if applicable)

95547

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.4

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

No

C6.5

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

Purchased goods and services

Evaluation status

Relevant, calculated

Metric tonnes CO2e

484421

Emissions calculation methodology

Purchased polymers broken, out by polymer type, and carbon black data was obtained in weight. Emissions for purchased polymers and carbon black were calculated using appropriate emission factors from ELCD, DEFRA and US-EI 2.2 and the AR5 GWP published by the IPCC.

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

100

Please explain

Capital goods

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This Scope 3 category does not meet any of the criteria (size, influence, risk, stakeholders, outsourcing, etc.) deemed as relevant under the WRI / WBCSD "Corporate Value Chain (Scope 3) Accounting & Reporting Standard" criteria of "sector guidance" as defined in Table 6.1 based on PolyOne's review of operations.

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

Evaluation status

Relevant, calculated

Metric tonnes CO2e

5953

Emissions calculation methodology

PolyOne utilizes our Scope 2 emissions and applies a regional transmission and distribution loss % to calculate this value. T&D loss percentages for the USA are by state and come from the EPA's "Power Profiler ZIP Code Tool with eGRID2018 Data" version 9.0. Factors for the rest of the world come from the World Bank Table 5.11 "World Development Indicators: Power and communication" (2014 data).

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

100

Please explain

Upstream transportation and distribution

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This Scope 3 category does not meet any of the criteria (size, influence, risk, stakeholders, outsourcing, etc.) deemed as relevant under the WRI / WBCSD "Corporate Value Chain (Scope 3) Accounting & Reporting Standard" criteria of "sector guidance" as defined in Table 6.1 based on PolyOne's review of operations.

Waste generated in operations

Evaluation status

Relevant, calculated

Metric tonnes CO2e

923

Emissions calculation methodology

Solid waste data collected at the site level was combined with emission factors for commercial and industrial waste from the Department for Environment Food and Rural Affairs (DEFRA) (2019 v.1.0) to calculate emissions from waste generated in operations.

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

100

Please explain

Business travel

Evaluation status

Relevant, calculated

Metric tonnes CO2e

8346

Emissions calculation methodology

Business travel data includes car and air travel, as well as hotel stays provided by our travel agency of choice. The emissions were calculated using relevant emission factors from DEFRA 2019 v1.0.

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

100

Please explain

Employee commuting

Evaluation status

Relevant, calculated

Metric tonnes CO2e

12578

Emissions calculation methodology

The mileage distance between employee's home and office was estimated using the respective postal codes. Commuting mileage outliers were assigned an average value calculated for that year. We assumed 50 weeks a year and 5 days a week of commuting when estimating. The commuting mileage total was combined with the following emission factor: Department for Environment Food and Rural Affairs (DEFRA); 2019 Guidelines to DEFRA.

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

0

Please explain

Upstream leased assets

Evaluation status

Relevant, calculated

Metric tonnes CO2e

3

Emissions calculation methodology

Upstream leased assets data includes data from leased vehicles provided by our leasing agencies of choice. The emissions were calculated using relevant emission factors from DEFRA 2019 v1.0.

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

100

Please explain

All leased facilities are included within Scope 1 and Scope 2 as part of our direct operations.

Downstream transportation and distribution

Evaluation status

Relevant, calculated

Metric tonnes CO2e

72303

Emissions calculation methodology

Downstream transportation and distribution information includes truck, air and sea freight. The values were calculated using metric ton kilometers and the following emission factor: Defra - Freightage Goods, 2019 v1.0

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

100

Please explain

Processing of sold products

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This Scope 3 category does not meet any of the criteria (size, influence, risk, stakeholders, outsourcing, etc.) deemed as relevant under the WRI / WBCSD "Corporate Value Chain (Scope 3) Accounting & Reporting Standard" criteria of "sector guidance" as defined in Table 6.1 based on Avient's review of operations.

Use of sold products

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This Scope 3 category does not meet any of the criteria (size, influence, risk, stakeholders, outsourcing, etc.) deemed as relevant under the WRI / WBCSD "Corporate Value Chain (Scope 3) Accounting & Reporting Standard" criteria of "sector guidance" as defined in Table 6.1 based on Avient's review of operations.

End of life treatment of sold products

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This Scope 3 category does not meet any of the criteria (size, influence, risk, stakeholders, outsourcing, etc.) deemed as relevant under the WRI / WBCSD "Corporate Value Chain (Scope 3) Accounting & Reporting Standard" criteria of "sector guidance" as defined in Table 6.1 based on Avient's review of operations.

Downstream leased assets

Evaluation status

Relevant, calculated

Metric tonnes CO2e

95

Emissions calculation methodology

Downstream leased assets include emissions stemming from the electric power usage at the LaPorte, TX site. Emissions are calculated using invoice data, an emission factor from the Emissions & Generation Resource Integrated Database (eGRID) 2020 v2 (2018 data) and the AR5 GWP published by the IPCC.

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

100

Please explain

Franchises

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This Scope 3 category does not meet any of the criteria (size, influence, risk, stakeholders, outsourcing, etc.) deemed as relevant under the WRI / WBCSD "Corporate Value Chain (Scope 3) Accounting & Reporting Standard" criteria of "sector guidance" as defined in Table 6.1 based on Avient's review of operations.

Investments

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This Scope 3 category does not meet any of the criteria (size, influence, risk, stakeholders, outsourcing, etc.) deemed as relevant under the WRI / WBCSD "Corporate Value Chain (Scope 3) Accounting & Reporting Standard" criteria of "sector guidance" as defined in Table 6.1 based on Avient's review of operations.

Other (upstream)

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This Scope 3 category does not meet any of the criteria (size, influence, risk, stakeholders, outsourcing, etc.) deemed as relevant under the WRI / WBCSD "Corporate Value Chain (Scope 3) Accounting & Reporting Standard" criteria of "sector guidance" as defined in Table 6.1 based on Avient's review of operations.

Other (downstream)

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This Scope 3 category does not meet any of the criteria (size, influence, risk, stakeholders, outsourcing, etc.) deemed as relevant under the WRI / WBCSD "Corporate Value Chain (Scope 3) Accounting & Reporting Standard" criteria of "sector guidance" as defined in Table 6.1 based on Avient's review of operations.

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

37872.1226944

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

108314

Metric denominator

unit total revenue

Metric denominator: Unit total

2.86

Scope 2 figure used

Market-based

% change from previous year

3.13

Direction of change

Increased

Reason for change

Our revenue decreased by 0.69% while our overall emissions increased by 2.41%

Intensity figure

0.3579342

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

108314

Metric denominator

unit of production

Metric denominator: Unit total

302609

Scope 2 figure used

Market-based

% change from previous year

5.39

Direction of change

Decreased

Reason for change

Our production increased by 8.25% while our overall emissions increased by 2.41%

C7. Emissions breakdowns

C7.1

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

Yes

C7.1a

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

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	12753	IPCC Fifth Assessment Report (AR5 – 100 year)
CH4	7	IPCC Fifth Assessment Report (AR5 – 100 year)
N2O	7	IPCC Fifth Assessment Report (AR5 – 100 year)

C7.2

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

Country/Region	Scope 1 emissions (metric tons CO2e)
Belgium	680
Brazil	1
Canada	164
China	25
France	445
Germany	72
Hungary	110
Italy	29
Mexico	0
Netherlands	10
Poland	136
Saudi Arabia	16
Spain	52
Thailand	7
United Kingdom of Great Britain and Northern Ireland	139
United States of America	10881

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)
Global Color, Additives and Inks	5028
PolyOne Corporation	3665
PolyOne Distribution	804
Global Specialty Engineered Materials	3270

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

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

	Gross Scope 1 emissions, metric tons CO2e	Net Scope 1 emissions , metric tons CO2e	Comment
Cement production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Chemicals production activities	12767	<Not Applicable>	
Coal production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Electric utility activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Metals and mining production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (upstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (midstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (downstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Steel production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport OEM activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport services activities	<Not Applicable>	<Not Applicable>	<Not Applicable>

C7.5

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

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted for in Scope 2 market-based approach (MWh)
Belgium	863	947	5027	
Brazil	185	185	1583	
Canada	23	23	162	
China	17811	17811	28466	
Czechia	524	639	1044	
Finland	122	348	1155	
France	1021	783	14717	
Germany	4100	7137	9794	
Hungary	672	952	2513	
India	1235	1235	1710	
Italy	624	930	1908	
Luxembourg	39	80	222	
Mexico	1103	1103	2304	
Netherlands	237	288	539	
Peru	46	46	208	
Poland	1331	1690	1868	
Saudi Arabia	2960	2960	4167	
Singapore	7314	7314	18443	
Spain	6272	9765	21655	
Thailand	2196	2196	4603	
United Kingdom of Great Britain and Northern Ireland	674	1040	2731	
United States of America	43456	43456	94141	
Turkey	1925	1925	4159	

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)
Global Color, Additives and Inks	39475	43548
Global Specialty Engineered Materials	41695	45701
PolyOne Corporation	5215	5256
PolyOne Distribution	1042	1042

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

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

	Scope 2, location-based, metric tons CO2e	Scope 2, market-based (if applicable), metric tons CO2e	Comment
Cement production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Chemicals production activities	87427	95547	
Coal production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Metals and mining production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (upstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (midstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (downstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Steel production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport OEM activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport services activities	<Not Applicable>	<Not Applicable>	<Not Applicable>

C-CH7.8

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

Purchased feedstock	Percentage of Scope 3, Category 1 tCO2e from purchased feedstock	Explain calculation methodology
Carbon black	3	Purchased carbon black data was obtained in weight. Emissions for carbon black were calculated using an emission factors from US-EI 2.2.
Polymers	79	Purchased polymers data, broken out by polymer type, was obtained in weight. Emissions for purchased polymers were calculated using appropriate emission factors from ELCD,DEFRA and US-EI 2.2.

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?

Increased

C7.9a

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

	Change in emissions (metric tons CO2e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	0	No change	0	We are currently not reporting any renewable energy
Other emissions reduction activities	2149	Decreased	1.98	Taking total emissions reduction activities implemented in 2019 (2149 metric tons CO2) divided by total Scope 1 and Scope 2 emissions (108,318 metric tons CO2), this results in 1.98% decrease.
Divestment	0	No change		
Acquisitions	0	No change		
Mergers	0	No change		
Change in output	0	No change		
Change in methodology	0	No change		
Change in boundary	0	No change		
Change in physical operating conditions	0	No change		
Unidentified	408	Increased	0.38	A total of 408 metric tons of unidentified emissions increased happened in 2019. Taking that value divided by total Scope 1 and Scope 2 emissions (108,318 metric tons CO2), this results in an increase of 0.38%.
Other	0	No change		

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 0% but less than or equal to 5%

C8.2

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

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

C8.2a

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

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	HHV (higher heating value)	0	69433	69433
Consumption of purchased or acquired electricity	<Not Applicable>	0	204695	204695
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	0	0	0
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Total energy consumption	<Not Applicable>	0	274127	274127

C-CH8.2a

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

	Heating value	Total MWh
Consumption of fuel (excluding feedstock)	HHV (higher heating value)	69433
Consumption of purchased or acquired electricity	<Not Applicable>	204695
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	0
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	<Not Applicable>
Total energy consumption	<Not Applicable>	274127

C8.2b

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

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

C8.2c

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

Fuels (excluding feedstocks)

Diesel

Heating value

HHV (higher heating value)

Total fuel MWh consumed by the organization

2556

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

Emission factor

74.203

Unit

kg CO2e per million Btu

Emissions factor source

US EPA Mandatory Reporting Rule (MRR) - Final Rule (40 CFR 98) - Industrial Sector 2013

Comment

Fuels (excluding feedstocks)

Natural Gas

Heating value

HHV (higher heating value)

Total fuel MWh consumed by the organization

66877

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

Emission factor

53.115

Unit

kg CO2e per million Btu

Emissions factor source

US EPA Mandatory Reporting Rule (MRR) - Final Rule (40 CFR 98) - Industrial Sector 2013

Comment

C8.2e

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

C-CH8.3

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

No

C9. Additional metrics

C9.1

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

C-CH9.3a

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

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

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

	Investment in low-carbon R&D	Comment
Row 1	Yes	As an element of our Sustainable Solutions product platform. See details in Opportunities section.

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	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 (optional)	Comment
Product redesign	Applied research and development	≤20%		

C10. Verification

C10.1

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

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

C10.2

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

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

C11. Carbon pricing

C11.1

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

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

C11.2

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

No

C11.3

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

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

C12. Engagement

C12.1

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

Yes, our suppliers

Yes, our customers

C12.1a

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

Type of engagement

Compliance & onboarding

Details of engagement

Code of conduct 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

82.86

Rationale for the coverage of your engagement

The countries and communities where we operate, as well as the world at large, are impacted by our operations, our products, and our people. The breadth and impact of our operations coupled with our high ethical standards require us to pursue highly sustainable solutions. Part of the way that we've integrated those standards into our business is through our Supplier Code of Conduct that covers our entire supplier network. The main objective for our Supplier Code of Conduct communications is to help set expectations with our suppliers around economic, social, and environmental performance. All our suppliers go through a vendor approval process that incorporates the communication of this Supplier Code of Conduct and the majority of large suppliers are audited through a 3rd party partner.

Impact of engagement, including measures of success

We identify measures of success not only through our established vendor approval process that includes climate-change related communications, but also through the success of our Sustainable Solutions portfolio. As we continue to engage with our suppliers to ensure more sustainable raw materials are integrated within our products, the better we are able to serve our customers within this space. We have seen a 14% increase in revenues from this part of our business and will continue to measure our success of engagement in a similar manner.

Comment

C12.1b

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

Type of engagement

Collaboration & innovation

Details of engagement

Run a campaign to encourage innovation to reduce climate change impacts

% of customers by number

100

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

0

Portfolio coverage (total or outstanding)

<Not Applicable>

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

We enable our customers' sustainability goals through material science. We have eight primary ways to do this, by combining our material science expertise with the inherent sustainable benefits of polymers: light-weighting, reduced energy use, volatile organic compound reduction, improved recyclability, bio-derived content, eco-conscious composition, renewable energy applications and reduced material requirements. Our products and their impact can be found making a positive difference in nearly every industry such as: • Delivering light-weighting benefits in rail, auto, and aerospace to improve fuel efficiency • Extending shelf-life and recyclability of food and beverage packaging to reduce spoilage and waste • Advancing healthcare innovation of medical devices with materials that enable disinfection as well as minimize the spread of infection • In addition, specialized polymer and composite solutions are also helping ensure that customers' sustainable products come to life, as Avient materials can be used in the design of innovative renewable technologies such as wind turbines and solar panels. Because of the broad base of positive impact engagement with our customers can have, we have structured our engagement to include all of our customers.

Impact of engagement, including measures of success

Avient began tracking Sustainable Solutions portfolio's success in 2012. Our revenues from that portfolio have grown from 2.81% in 2012 to over 14% in 2019. Part of this increase in revenue is directly related to the way we're engaging with our customers to further understand the value of this portfolio, particularly in terms of climate-change impacts. We expect that revenue from this portfolio will continue to grow as our specialization efforts mature.

C12.3

(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?

Trade associations

C12.3b

(C12.3b) Are you on the board of any trade associations or do you provide funding beyond membership?

No

C12.3f

(C12.3f) What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

At Avient, we understand that it's important to ensure that our activities that influence policy are also consistent with our overall climate change strategy. Therefore, we have established a group of leaders that have insight across our broader business functions, including our policy group, that are directly responsible with management of climate-related strategies. By creating this nexus point, we ensure that these two groups have the opportunity to collaborate and ensure consistency.

Additionally, the VP of Sustainability works up through the Board of Directors and down through the organization via the Sustainability Council to ensure that our policy action and climate-change strategy are aligned and consistent.

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 voluntary communications

Status

Underway – previous year attached

Attach the document

SustainabilityReport2018.pdf

Page/Section reference

2018 Sustainability Report references (2019 Report will be published in October 2020): p.37 How Our Products Enable Sustainability p.51 Case Studies p.56 Product Stewardship p.60 Environmental Stewardship p.62 Energy and Emissions + Figures p.65 Renewable Energy and Goals

Content elements

Governance

Strategy

Risks & opportunities

Emissions figures

Emission targets

Comment

2019 sustainability report will be available in October 2020.

Publication

In mainstream reports

Status

Complete

Attach the document

PolyOne 2019 Annual Report.pdf

Page/Section reference

Section Planet, Page 11, Scope 2 carbon dioxide emission Reduction Target

Content elements

Emission targets

Comment

C15. 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.

We encourage you to read Avient's 2019 Sustainability Report for more information related to the broader spectrum of our corporate social responsibility efforts. It can be found at: <https://www.polyone.com/company/sustainability>

C15.1

(C15.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	VP Sustainability	Chief Sustainability Officer (CSO)

SC. Supply chain module

SC0.0

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

Headquartered in Avon Lake, Ohio, USA, with world-wide operations encompassing more than 100 facilities and employing approximately 9,100 associates, Avient (formerly PolyOne) Corporation (NYSE: AVNT), is a premier provider of specialized sustainable material. The company is dedicated to serving customers in diverse industries around the globe, by creating value through collaboration, innovation and an unwavering commitment to excellence. Guided by its Core Values, Sustainability Promise and No Surprises Pledge, Avient is an ACC Responsible Care® and Great Place to Work® certified company and a founding member of the Alliance to End Plastic Waste. The company is committed to its customers, employees, communities and shareholders through ethical, sustainable and fiscally responsible principles.

As one of the world's leading specialty polymer materials, services and solution companies, Avient contributes to value creation with innovative and sustainable solutions for customers from many industries. Through collaboration, innovation and excellence, our product portfolio is designed to ensure our customer's success. Additionally, our research and development is focused on finding innovative solutions to many of the key challenges facing society today. These include energy efficiency, renewable raw materials, light weighting and conserving natural resources.

We aim to create a world-class sustainable organization through continual improvement in the four cornerstones of our commitment to Sustainability:

- **People** – by keeping safety first, then hiring and developing our global team to then deliver to our customers with ethics and integrity
- **Products** – by innovating material solutions and services that help our customers meet their product and sustainability goals
- **Planet** – by conducting operations that minimize impact to the environment and natural resources, while committing to helping areas and communities that are distressed or undeserved.
- **Performance** – by delivering growth and value creation for all our stakeholders.

As a leading company in the field of specialty polymer materials, services and solutions, Avient does not limit itself to simply complying with the legal requirements, but also takes part in a variety of voluntary sustainability programs, including commitments to the Responsible Care® principles, Alliance to End Plastic Waste, Operation Clean Sweep® as well as self-initiated commitments such as its Code of Conduct and Code of Supplier Conduct.

In all of its activities, Avient puts high emphasis on environmental protection and safety. The company's internal standards and management systems on environment, health and safety are certified to the Responsible Care Management System. In addition, Avient has ISO 9001 worldwide and ISO 14001 and ISO 50001 certification at many facilities. Each production facility adheres vigorously to the company's global standards that ensure safe and environmentally friendly operations.

In Avient's product portfolio, clear sustainability criteria were established and are marketed as Sustainable Solutions based upon the FTC's Guidelines for the Use of Environmental Marketing Claims. These guides, developed by the Federal Trade Commission, consist of general principles and specific guidance on the use of particular environmental claims. Products that are renewable, re-usable, recyclable, have an eco-conscious composition, or meet resource efficiency guidelines fall within this category. On this basis, company products and solutions are reviewed and classified in terms of their sustainability performance. Upon this, measures can be built for strategic decision-making in investments on product development as well as communication.

Avient has defined our Sustainability Portfolio in the eight ways we help our customers meet their innovation and sustainability goals through material science. This portfolio has grown at a compounded annual growth rate of 14% since 2016, and the megatrends of the future indicate continued growth and demand. In 2019, we delivered \$410 million in sustainable solutions sales, as defined using criteria aligned with the FTC 2012 Guide for the Use of Environmental Marketing Claims. The impact and breadth of these solutions is immense, evidenced by the **\$1.36 Billion** in sales of these materials from **2016-2019**.

As the world begins to shift from operating in a linear economy to a circular economy, Avient is proud to be a part of the solution. Through our design expertise and material science, we help our customers increase post-consumer recycled content, formulate with bio-based materials, use less material during production, reduce energy required for production, and build alternative energy applications to name a few. In fact, approximately 60% of the revenue generated from sustainable solutions last year came from products designed for resource conservation.

SC0.1

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

	Annual Revenue
Row 1	2862700000

SC0.2

(SC0.2) Do you have an ISIN for your company that you would be willing to share with CDP?

Yes

SC0.2a

(SC0.2a) Please use the table below to share your ISIN.

	ISIN country code (2 letters)	ISIN numeric identifier and single check digit (10 numbers overall)
Row 1	US	05368V1061

SC1.1

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

Requesting member

Stanley Black & Decker, Inc.

Scope of emissions

Scope 1

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO₂e

18.23

Uncertainty (±%)

10

Major sources of emissions

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Stanley Black & Decker divided by total production volume was used as a percentage. This was multiplied by Avient's total scope 1 emissions to identify Stanley Black & Decker's contribution.

Requesting member

Stanley Black & Decker, Inc.

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO₂e

87427

Uncertainty (±%)

10

Major sources of emissions

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Stanley Black & Decker divided by total production volume was used as a percentage. This was multiplied by Avient's total location-based scope 2 emissions to identify Stanley Black & Decker's contribution.

Requesting member

Stanley Black & Decker, Inc.

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

95547

Uncertainty (±%)

10

Major sources of emissions**Verified**

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Stanley Black & Decker divided by total production volume was used as a percentage. This was multiplied by Avient's total market-based scope 2 emissions to identify Stanley Black & Decker's contribution.

Requesting member

Stanley Black & Decker, Inc.

Scope of emissions

Scope 3

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

584622

Uncertainty (±%)

10

Major sources of emissions

purchased goods and services, downstream transportation and distribution

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Stanley Black & Decker divided by total production volume was used as a percentage. This was multiplied by Avient's total scope 3 emissions to identify Stanley Black & Decker's contribution.

Requesting member

HP Inc

Scope of emissions

Scope 1

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

117.11

Uncertainty (±%)

10

Major sources of emissions**Verified**

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for HP divided by total production volume was used as a percentage. This was multiplied by Avient's total scope 1 emissions to identify HP's contribution.

Requesting member

HP Inc

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

801.94

Uncertainty (±%)

10

Major sources of emissions**Verified**

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for HP divided by total production volume was used as a percentage. This was multiplied by Avient's total location-based scope 2 emissions to identify HP's contribution.

Requesting member

HP Inc

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

876.42

Uncertainty (±%)

10

Major sources of emissions**Verified**

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for HP divided by total production volume was used as a percentage. This was multiplied by Avient's total market-based scope 2 emissions to identify HP's contribution.

Requesting member

HP Inc

Scope of emissions

Scope 3

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

5362.54

Uncertainty (±%)

10

Major sources of emissions

purchased goods and services, downstream transportation and distribution

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for HP divided by total production volume was used as a percentage. This was multiplied by Avient's total scope 3 emissions to identify HP's contribution.

Requesting member

Lego Group

Scope of emissions

Scope 1

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

27.67

Uncertainty (±%)

10

Major sources of emissions

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Lego divided by total production volume was used as a percentage. This was multiplied by Avient's total scope 1 emissions to identify Lego's contribution.

Requesting member

Lego Group

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

189.48

Uncertainty (±%)

10

Major sources of emissions

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Lego divided by total production volume was used as a percentage. This was multiplied by Avient's total location-based scope 2 emissions to identify Lego's contribution.

Requesting member

Lego Group

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

207.08

Uncertainty (±%)

10

Major sources of emissions

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Lego divided by total production volume was used as a percentage. This was multiplied by Avient's total market-based scope 2 emissions to identify Lego's contribution.

Requesting member

Lego Group

Scope of emissions

Scope 3

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

1267.03

Uncertainty (±%)

10

Major sources of emissions

purchased goods and services, downstream transportation and distribution

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Lego divided by total production volume was used as a percentage. This was multiplied by Avient's total scope 3 emissions to identify Lego's contribution.

Requesting member

Prysmian SpA

Scope of emissions

Scope 1

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

133.01

Uncertainty (±%)

10

Major sources of emissions

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Prysmian divided by total production volume was used as a percentage. This was multiplied by Avient's total scope 1 emissions to identify Prysmian's contribution.

Requesting member

Prysmian SpA

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

910.84

Uncertainty (±%)

10

Major sources of emissions

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Prysmian divided by total production volume was used as a percentage. This was multiplied by Avient's total location-based scope 2 emissions to identify Prysmian's contribution.

Requesting member

Prysmian SpA

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

995.44

Uncertainty (±%)

10

Major sources of emissions**Verified**

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Prysman divided by total production volume was used as a percentage. This was multiplied by Avient's total market-based scope 2 emissions to identify Prysman's contribution.

Requesting member

Prysman SpA

Scope of emissions

Scope 3

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

6090.78

Uncertainty (±%)

10

Major sources of emissions

purchased goods and services, downstream transportation and distribution

Verified

No

Allocation method

Allocation based on the volume of products purchased

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

The volume produced for Prysman divided by total production volume was used as a percentage. This was multiplied by Avient's total scope 3 emissions to identify Prysman's contribution.

SC1.2

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

The following source was used for Global Warming Potential calculations: "IPCC Fifth Assessment Report (AR5-100 Year)". In general, all factors used below are from the "Department for Environment, Food, and Rural Affairs (DEFRA) 2019 version 1.0".

Solid waste information was utilized. The data was manually entered by sites globally and the values were calculated using the following emission factors:

- Hazardous Waste - Incinerated - Thermal Recovery: "DEFRA - Waste disposal - Refuse - Commercial and industrial waste - Combustion"
- Hazardous Waste - Landfill: "DEFRA - Waste disposal - Refuse - Commercial and industrial waste - Landfill"
- Hazardous Waste - Other: "DEFRA - Waste disposal - Refuse - Commercial and industrial waste - Landfill"
- Hazardous Waste - Recycled: "DEFRA - Waste disposal - Refuse - Commercial and industrial waste - Closed Loop"
- Non-Hazardous Waste - Incinerated - Thermal Recovery: "DEFRA - Waste disposal - Refuse - Commercial and industrial waste - Combustion"
- Non-Hazardous Waste - Landfill: "DEFRA - Waste disposal - Refuse - Commercial and industrial waste - Landfill"
- Non-Hazardous Waste - Other: "DEFRA - Waste disposal - Refuse - Commercial and industrial waste - Landfill"
- Non-Hazardous Waste - Recycled: "DEFRA - Waste disposal - Refuse - Commercial and industrial waste - Closed Loop"

Employee travel data was collected from the Professional Travel with emission factors already applied. Values from Europe and Asia were calculated using the following emission factors:

- DEFRA - Business travel - air - Flights - Short-haul - Economy class - With RF - passenger.km
- DEFRA - Business travel - air - Flights - Short-haul - Business class - With RF - passenger.km
- DEFRA - Business travel - air - Flights - Long-haul - Economy class - With RF - passenger.km
- DEFRA - Business travel - air - Flights - Long-haul - Premium economy class - With RF - passenger.km
- DEFRA - Business travel - air - Flights - Short-haul - Business class - With RF - passenger.km
- DEFRA - Business travel - land - Cars (by size) - Average car - Petrol - miles

The mileage and types of fleet vehicles were collected and the emission values were calculated using the following emission factor:

- DEFRA - Business travel - land - Cars (by Size - Average car - Petrol - miles

The mileage distances between employees' homes and offices were estimated using the respective postal codes. The commuting mileage total was combined with the following emission factor:

- DEFRA - Business travel - land - Cars (by size) - Average car - Petrol - miles

Downstream transportation and distribution information includes both truck and rail data for the U.S. and truck, rail, and air data for Europe and Asia. The values were calculated using metric ton miles and the following emission factors:

- Truck freight: DEFRA - Freightng goods - HGV (all diesel) - All HGVs - Average laden - tonne.km
- Sea freight: DEFRA - Freightng goods - Cargo ship - General cargo - Average - tonne.km
- Air freight: DEFRA - Freightng goods - Freight flights - Domestic - tonne.km
- Air freight: DEFRA - Freightng goods - Freight flights - Short-haul - tonne.km
- Air freight: DEFRA - Freightng goods - Freight flights - Long-haul - tonne.km

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
Diversity of product lines makes accurately accounting for each product/product line cost ineffective	Line level metering of electricity and natural gas use.
Managing the different emission factors of diverse and numerous geographies makes calculating total footprint difficult	Globalized standard emission factors.

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.

Avient plans to track energy use and production volume at the manufacturing line level.

SC2.1

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

Requesting member

Lego Group

Group type of project

Change to provision of goods and services

Type of project

Other, please specify (Greener Formulations)

Emissions targeted

Actions that would reduce both our own and our customers' emissions

Estimated timeframe for carbon reductions to be realized

1-3 years

Estimated lifetime CO2e savings

Estimated payback

Cost/saving neutral

Details of proposal

Any formulation changes that support improved recycling, improved processing, or waste minimization.

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.

SC3.1

(SC3.1) Do you want to enroll in the 2020-2021 CDP Action Exchange initiative?

Yes

SC3.1a

(SC3.1a) Identify which member(s), if any, have motivated you to take part in Action Exchange this year.

Lego Group

SC3.1b

(SC3.1b) Select the types of emissions reduction activities that your company would like support in analyzing or in implementing in the next reporting year.

- Energy efficiency in buildings
- Energy efficiency in production processes
- Transportation
- Waste reduction and material circularity

SC3.1c

(SC3.1c) As part of Action Exchange, would you like facility level analysis?

Yes

SC3.2

(SC3.2) Is your company a participating supplier in CDP's 2019-2020 Action Exchange initiative?

No

SC4.1

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

No, I am not providing data

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I am submitting to	Public or Non-Public Submission	Are you ready to submit the additional Supply Chain Questions?
I am submitting my response	Investors Customers	Public	Yes, submit Supply Chain Questions now

Please confirm below

I have read and accept the applicable Terms