

C0. Introduction

C0.1

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

AdvanSix Inc. plays a critical role in global supply chains, innovating and delivering essential products for our customers in a wide variety of end markets and applications that touch people’s lives, such as building and construction, fertilizers, agrochemicals, plastics, solvents, packaging, paints, coatings, adhesives and electronics. Our reliable and sustainable supply of quality products emerges from the integrated value chain of our five U.S.-based manufacturing facilities. AdvanSix strives to deliver best-in-class customer experiences and differentiated products in the industries of nylon solutions, chemical intermediates and plant nutrients, guided by our core values of Safety, Integrity, Accountability and Respect.

Our four key product lines are as follows:

- Nylon – Nylon 6 is a polymer resin, which is a synthetic material used by our customers to produce fibers, filaments, engineered plastics and films that, in turn, are used in such end-products as carpets, automotive and electric components, packaging, including food packaging, and other industrial applications including wire and cable. We sell our Nylon 6 resin globally, primarily under the Aegis® brand name. In addition, our Nylon 6 resin is used to produce nylon films through our Oben Alliance which we sell to our customers primarily under the Capran® brand name. 2022 Sales
- Caprolactam – Caprolactam is the key monomer used in the production of Nylon 6 resin. We internally polymerize caprolactam into Aegis® Nylon 6 Resins, and we also market and sell the caprolactam that is not consumed internally to customers who use it to manufacture polymer resins to produce nylon fibers, films and other nylon products. Our Hopewell manufacturing facility is one of the world’s largest single-site producers of caprolactam as of December 31, 2022.
- Chemical Intermediates – We manufacture, market and sell a number of other chemical products that are derived from the chemical processes within our integrated supply chain and as a result of the acquisition of U.S. Amines Limited (“U.S. Amines”) in 2022. Most significant is acetone which is used by our customers in the production of adhesives, paints, coatings, solvents, herbicides and engineered plastic resins. Other intermediate chemicals that we manufacture, market and sell include phenol, alkyl and specialty amines including monoisopropylamine, dipropylamine, and monoallylamine, alpha-methylstyrene (“AMS”), cyclohexanone, oximes (methyl ethyl ketoxime, acetaldehyde oxime and 2-pentanone oxime), cyclohexanol, sulfuric acid, ammonia and carbon dioxide.
- Ammonium Sulfate – Our ammonium sulfate is used by customers as a fertilizer containing nitrogen and sulfur, two key plant nutrients, as an herbicide adjuvant for crop protection, and in several industrial applications. Ammonium sulfate fertilizer is derived from the caprolactam manufacturing process. Because of our Hopewell facility’s size, scale and technology design, we are the world’s largest single-site producer of ammonium sulfate fertilizer as of December 31, 2022. We market and sell ammonium sulfate primarily to North American and South American distributors, farm cooperatives and retailers to fertilize crops.

At AdvanSix, our core values of Safety, Integrity, Accountability and Respect are the foundation of our business. As a proud member of the American Chemistry Council, we are committed to managing our operations in a Safe, Stable and Sustainable manner in accordance with the Responsible Care® Guiding Principles. The following Health, Safety and Environmental values are intended to serve as a guide and reflect our commitment to continuously improve our health, safety, and environmental performance at all our sites in order to support sustainable operations. Our priority is to ensure safe, stable and sustainable operations through best-in-class performance. Our strong legacy and ongoing commitment to operational excellence — including process safety and adherence to the American Chemistry Council (ACC) Responsible Care® guiding principles — remains a solid foundation for our corporate sustainability programs. Importantly, sustainability is highly integrated into our overall corporate strategy and value creation roadmap, with a focus on strengthening our culture, improving through-cycle profitability, enhancing portfolio resiliency, and maintaining disciplined capital stewardship.

C0.2

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

Reporting year

Start date

January 1 2022

End date

December 31 2022

Indicate if you are providing emissions data for past reporting years

Yes

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

3 years

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

3 years

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

Not providing past emissions data for Scope 3

C0.3

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

United States of America

C0.4

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

USD

C0.5

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

Operational control

C-CH0.7

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

Row 1

Bulk organic chemicals

Polymers

Bulk inorganic chemicals

Ammonia

Fertilizers

Other chemicals

Specialty chemicals

C0.8

(C0.8) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization	Provide your unique identifier
Yes, an ISIN code	US00773T1016
Yes, a CUSIP number	00773T101

C1. Governance

C1.1

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

Yes

C1.1a

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

Position of individual or committee	Responsibilities for climate-related issues
Board-level committee	<p>In 2022 AdvanSix had 4 board members on the Health, Safety, Environmental, and Sustainability (HSE&S) Committee, one as the chair. The HSE&S Committee, established in early 2020, is responsible for oversight of our policies and programs relating to compliance with health, safety, environmental and sustainability matters, including climate change, process safety, security, asset reliability, product safety and stewardship, community engagement and government affairs, as well as other matters regarding AdvanSix's role as a responsible corporate citizen.</p> <p>Specific examples of the board's involvement with climate change topics are as follows for this reporting year:</p> <ol style="list-style-type: none"> 1. The board committee received updates on our Life Cycle Assessment project on 6/15/2022 and 9/27/2022. 2. The board committee was presented content related to emissions abatement ideas on 9/27/2022. 3. The board committee was presented and provided feedback on a first draft of new climate goals and targets on 11/17/2022. <p>Prior to Jan 1, 2023, the HSES committee oversaw ESG and sustainability-related responsibilities, which have since be moved to the chartered oversight of the Nominating and Governance Committee of the Board of Directors. The specific responsibilities related to ESG and sustainability matters have not changed. Effective Jan 1, 2023, the HSE&S Committee was renamed the HS&E Committee.</p>

C1.1b

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

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Scope of board-level oversight	Please explain
Scheduled – some meetings	Reviewing and guiding annual budgets Overseeing major capital expenditures Overseeing acquisitions, mergers, and divestitures Overseeing and guiding employee incentives Reviewing and guiding strategy Overseeing and guiding the development of a transition plan Overseeing the setting of corporate targets Monitoring progress towards corporate targets Overseeing and guiding public policy engagement Reviewing and guiding the risk management process	<Not Applicable>	<p>One primary function of the Health, Safety, Environment & Sustainability (HSE&S) committee of the board of directors of AdvanSix Inc. during 2022 was to have oversight of the Company's government relations, corporate social responsibility and sustainability programs, as well as other and additional functions.</p> <p>This committee maintained an annual matrix of required agenda items to ensure coverage of all ESG/Sustainability topics including climate change. This is reviewed and confirmed by the General Counsel. Special topics are covered as needed.</p> <p>Our Sustainability Council, formed to holistically assess our corporate sustainability and ESG practices, took root in 2020. The Council, comprised of senior leaders, and led by our Sr. Sustainability Director acts as an internal governance body on strategy development and collaborates with a network of subject matter experts throughout the organization with a focus on enhancing sustainability across our processes and product innovation and an unwavering commitment to our employees.</p> <p>Our Sr. Sustainability Director, and lead of the Sustainability Council, reports out quarterly to the Committee on our sustainability strategy. Topics covered include the status of goals and targets; status, results and/or rankings from third-parties; progress on our Life Cycle Assessment, status of improvement or CAPEX projects related to climate, among other topics. In 2022 the Committee has been involved in reviewing and approving new climate and water goals and targets.</p>

C1.1d

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

	Board member(s) have competence on climate-related issues	Criteria used to assess competence of board member(s) on climate-related issues	Primary reason for no board-level competence on climate-related issues	Explain why your organization does not have at least one board member with competence on climate-related issues and any plans to address board-level competence in the future
Row 1	Yes	Yes, our directors all have chemicals industry experience along with experience with ESG and Health, Safety, Environmental & Sustainability related items. The Board also utilizes the expertise of outside consultants to support on current experience with climate-related issues.	<Not Applicable>	<Not Applicable>

C1.2

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

Position or committee

General Counsel

Climate-related responsibilities of this position

Providing climate-related employee incentives
Developing a climate transition plan
Integrating climate-related issues into the strategy
Setting climate-related corporate targets
Monitoring progress against climate-related corporate targets
Managing public policy engagement that may impact the climate
Assessing climate-related risks and opportunities
Managing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

CEO reporting line

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

Quarterly

Please explain

Rationale: Our General Counsel has oversight of our overall compliance program, which includes many matters relevant to our Company's ESG performance, including our Health, Safety and Environmental program. Climate-related issues are often closely related to and assessed with an approach similar to environmental management and compliance programs. This structure allows for effective oversight over these matters from the perspective of compliance, reporting and escalation of priorities.

Process: Our General Counsel is informed of and monitors climate-related issues via multiple processes. Our Sr. Sustainability Director reports directly to the General Counsel and is highly involved in strategic decision making on all sustainability topics including climate.

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	Incentives tied to strategic objectives and ESG performance which include third party ratings which capture emissions reductions, energy reductions, behavior changes, governance frameworks, supply chain engagement, and performance against indices and peers.

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

Corporate executive team

Type of incentive

Monetary reward

Incentive(s)

Bonus - % of salary

Performance indicator(s)

Progress towards a climate-related target
Implementation of an emissions reduction initiative
Energy efficiency improvement
Reduction in total energy consumption
Increased engagement with suppliers on climate-related issues
Company performance against a climate-related sustainability index (e.g., DJSI, CDP Climate Change score etc.)

Incentive plan(s) this incentive is linked to

Both Short-Term and Long-Term Incentive Plan

Further details of incentive(s)

Our 2022 short-term incentive compensation program is reviewed annually. The performance metrics under the short-term incentive program adopted in February 2022 and do cover ESG priorities which are included in Leadership Team Strategic Objectives (with a 20% weight as the remaining 80% is covered by other priorities). Sustainability related topics that are covered by Leadership Team Strategic Objectives include third party ratings which capture emissions reductions and transition targets, energy reductions, behavior changes, governance frameworks, supply chain engagement, and performance against indices and peers.

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

Short-term incentive awards are intended to motivate and reward executives for achieving annual corporate and individual goals in key areas of financial and operational performance. In February 2022, the C&LD Committee established the metrics for the short-term incentive plan for 2022 to ensure alignment with the Company's business objectives and compensation philosophy while also taking into consideration a review of peer group data confirmed by its independent compensation consultant.

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	10	These are risks that could or are expected to occur in near future. Some examples are increases in cost of utilities, more extreme or more frequent weather patterns that have operational impacts, and regulatory or legislation changes that impact plastics or agricultural activities. Also, there is a risk of public and non-governmental organization (NGO) perceptions changing. These are aligned with internal company risk ranking timelines.
Medium-term	10	25	These are risks that are more impactful than short term. Expecting longer duration and more extreme weather/climate related events that impact sea logistics or cause extended operational impacts. These can carry over to our suppliers in the gulf coast which impacts our supply chain. This also includes capital risks needed to improve water stewardship at the manufacturing levels. This also includes risks related to consumer driven or regulatory/legislative changes to the plastics industry that are in play. These are aligned with internal company risk ranking timelines.
Long-term	25	100	These risks are known engineering risks (such as 100-year or 500-year flooding) that may occur sooner or more often than current probability due to climate change. This also includes low or zero emissions regulations and risks associated transition away from fossil fuels to alternative energy forms. These are aligned with internal company risk ranking timelines.

C2.1b

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

A Risk Matrix methodology is used to determine the potential impact of a risk or opportunity within the company. The Risk Matrix is aligned across the enterprise to evaluate and prioritize all HSE&S needs. This matrix aligns the severity of the risk's impact with the likelihood to determine the impact of the risk. Severity is determined by financial impact of the event and is broken down into three financial categories for determining level of impact on the business. Events that cause over \$100M of financial, operational, or strategic (or combination of) impact are considered severe, Over \$10M is considered serious, and Over \$1M is considered high risk. For example, operational downtime, logistics delays, and financial, revenue, and sales impacts are all rolled into severity to evaluate our risks. Likelihood is determined by the annual probability of the event happening. The most probable events are expected to occur at least annually, next most probable are at least likely to occur within 10 years, then likelihood continues to decrease as the horizon time extends. The severity of the impact is matrixed with the likelihood of the scenario to determine the substantive risk level. The higher severity scenarios that are likely to occur have the highest risk score and would be considered substantive (red on our matrix), while not as probable scenarios with low impact have a low substantive impact (green on our matrix), with an intermediate level matrixed between high and low impacts (classified as yellow on our matrix)

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

Every three years or more

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

AdvanSix has a company-wide HSES risk matrix procedure that was leveraged to evaluate climate change risks in a manner aligned to the TCFD recommendations. A large cross functional team met in 2020 to brainstorm ideas for potential physical or transition risks from global climate change for short-term (0-5 years), medium-term (5-10years), and long-term risks (10-100 years). The team identified both risks and opportunities and then assigned them a rating for likelihood of occurrence as well as potential impact to the company if the event occurred. Risks that were very likely to occur and had a high severity impact were considered substantive.

The team considered Regulations/Legislation, Weather & Climate, and Carbon Free economy. The scope for the risk ranking areas is Supply, Logistics, Plant Operations, and End Markets/Customers and involved an inter-disciplinary team. Each idea/scenario was assigned a likelihood and a severity and then a risk rank matrix was used to determine a risk score. The time horizon for the event occurrence ties into the likelihood rating of the scenario. The risk scores are matrixed to determine a red, yellow, or green ranking. Red is a highest (or substantive) risk, yellow medium risk, and green is low risk or a potential opportunity.

The highest rated potential risks were water related. After further consideration of our water risks, we completed a Water Body Risk assessment to further investigate the risk scenarios and outlook and expect to release new goals and targets in the next reporting period for both climate and water. The team also identified opportunities on the horizon, that might allow us to leverage our highly integrated operations to offer flexibility to changing markets or legislation.

Internally we have a Sustainability Council that meets on a routine basis to discuss climate related topics and our activities and responses to our risks. The TCFD risk ranking process was also reviewed with leadership through our Sustainability Council. The last TCFD risk assessment was completed in 2020 and we are planning to update and improve our TCFD risk and scenario analysis processes in the next reporting year to align with current best practices.

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	A default scenario that is covered in our TCFD matrix is Regulation & Legislation. These are evaluated based on applicability to our enterprise. For example, mandatory renewable energy goals for electricity supplier and the cost impact of these. In addition, water steward activities are being evaluated and we are working with outside local agencies to evaluate future needs.
Emerging regulation	Relevant, always included	A default scenario that is covered in our TCFD matrix is Regulation & Legislation. Emerging regulations are part of that topic and subjects related to it are categorized and examined by the team's knowledge base. It covers topics such as regulations that may impact greenhouse gas climate emissions, impact water restrictions, and air emissions.
Technology	Relevant, sometimes included	Technology is not a stand-alone risk category or scenario, but it is included in the team brainstorming activity across the standard categories. Some examples of technology risks are plastics and recycling, water reuse technology, and new technologies for energy or carbon capture.
Legal	Relevant, always included	A default topic that is covered in our TCFD matrix is Regulation & Legislation. Legal impacts are considered for topics such as changing environmental regulations related to sulfur as well as the topic of plastics and recycling.
Market	Relevant, always included	Customers and End-Markets across all three businesses is standard risk topic for our TCFD matrix. Changing customer needs are evaluated as they likely have the same future risks as we do. Certain markets may change such as automotive and plastics changes due to emission regulations and agriculture impacts due to drought. Opportunities in the end market are also included to describe ways we can leverage climate topics.
Reputation	Relevant, always included	Reputational risks are not a stand-alone risk category or scenario, but it is included in the team brainstorming activity across the standard categories. Some examples of reputational risks are related to getting out ahead of potential sulfur regulations, plastics recycling efforts and sustainability impacts in the nylon industry, and leveraging existing platforms to explore solvent market opportunities. Also diversifying product portfolios is an opportunity to reduce reputational risks.
Acute physical	Relevant, always included	Acute physical risks are covered in the likelihood analysis and considered across all topics and scenarios in our risk matrix. For example, climate and water risks are evaluated and typically short duration events but are expected to potentially have longer durations in future years such as tropical storms impacting sea logistics between the gulf coast and our Frankford facility as well as logistics between Frankford and our Hopewell facility.
Chronic physical	Relevant, always included	Chronic physical risks are covered in the likelihood analysis and considered across all topics and scenarios in our risk matrix. Some examples of chronic risks are more extreme weather patterns that cause longer or more severe business disruptions. Also restricted water usage can also impact 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

Emerging regulation	Carbon pricing mechanisms
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Primary potential financial impact

Increased capital expenditures

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

There is a risk of more stringent GHG limitations that if enacted are likely to have a significant impact on us because our production facilities emit GHGs such as carbon dioxide and nitrous oxide and because natural gas, a fossil fuel, is a primary raw material used in our production process. To the extent that GHG or other restrictions are not imposed in countries where our competitors operate or are less stringent than regulations that may be imposed in the United States, our competitors may have cost or other competitive advantages over us. While these climate risk to all of our locations, the biggest impact would be at our Hopewell location because it has direct GHG emissions from manufacturing operations related to ammonia and caprolactam production. The direct manufacturing process emissions from Hopewell make up just over 55% of our total Scope 1 direct emissions annually.

Time horizon

Medium-term

Likelihood

More likely than not

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

102495900

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

The potential financial impact figure is based on a potential carbon tax multiplied by our 2022 Scope 1 direct emissions. A carbon tax was estimated at \$50 per metric ton of CO2 and our 2022 scope 1 direct emissions were 2,049,918 metric tons.

Cost of response to risk

28000000

Description of response and explanation of cost calculation

For our current situation there is a risk of more stringent GHG limitations that if enacted are likely to have a significant impact on us because our production facilities emit GHGs such as carbon dioxide and nitrous oxide and because natural gas, a fossil fuel, is a primary raw material used in our production process. In order to mitigate our risks for carbon dioxide emissions we have a steady and reliable customer based that purchases our carbon dioxide from our ammonia manufacturing via pipeline from our Hopewell location. Beyond that, in order to respond to this climate GHG risk in our direct operations, we are evaluating options for GHG abatement projects. We are developing a nitrous oxide emission abatement project at our Hopewell facility and developing a long-term strategy to evaluate additional abatement projects. We have kicked off a CAPEX project for nitrous oxide abatement in 2023 and expect to have equipment to installed and operational in 2025. This project is expected to abate approximately 14% of our Scope 1 direct GHG emissions. The cost of the response is the estimated cost of the capital project to install and abatement equipment at our Hopewell facility. Additionally, we are developing new climate goals and targets that will be aligned with our long-term strategy and announced in the next reporting year.

Comment

C2.4

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

Yes

C2.4a

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

Identifier

Opp1

Where in the value chain does the opportunity occur?

Downstream

Opportunity type

Products and services

Primary climate-related opportunity driver

Development and/or expansion of low emission goods and services

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

AdvanSix, based in the US, makes nylon resins at our Chesterfield, VA location as part of our integrated value chain. We can foresee an opportunity to protect or increase market opportunities in the nylon resin industry, specifically in the packaging markets for recycled materials. We can offer our customers an immediately available, drop-in solution, to include recycled content in their products by purchasing our PIR products. This could enable us to become a preferred supplier in packaging markets, maintain and improve our current customer relationships, and bring in new customers who are interested in products that maintain performance standards and still provide an improved GHG footprint. Any combination of these could increase revenue and market presence.

Time horizon

Short-term

Likelihood

Virtually certain

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

1000000

Potential financial impact figure – maximum (currency)

10000000

Explanation of financial impact figure

This financial impact is estimated by the risk assessment team based on the potential to increase revenue for products that are manufactured with post-industrial recycled materials, this can be leveraged in the packaging market.

Cost to realize opportunity

150000

Strategy to realize opportunity and explanation of cost calculation

We can foresee revenue increases from increasing sales of our products with recycled content. In 2021 we launched 100% Aegis® PIR-PA6 resin and Capran® PIR-BOPA films. In order to effectively market these products, we have marketing campaigns, present at trade shows for the plastics industries on the topic of post-industrial recycled products, include it on our Knowde site, as well as actively engage customers on the benefits of these products. To quantify the benefits of these products containing recycled content we engaged a consultant to complete a Life Cycle Assessment on the base nylon product (zero recycled content) and the recycled content nylon products in order to have GWP results for each product, which is currently being prepared for an independent panel review. We expect to have the GWP results in 2023. In addition, in 2023 we will launch our post-consumer recycled (PCR) products. For these product lines we maintain a recycled content certification with SCS. The cost to realize is based on estimated consulting fees related to our Life Cycle Assessment and maintaining our recycled content certification.

Comment

C3. Business Strategy

C3.1

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

Row 1

Climate transition plan

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

Publicly available climate transition plan

<Not Applicable>

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

<Not Applicable>

Description of feedback mechanism

<Not Applicable>

Frequency of feedback collection

<Not Applicable>

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

<Not Applicable>

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

As we have matured in our sustainability path we have begun to explore aligning with a science-based target protocol but we have not made a decision on the final outcome. We have recognized opportunities to implement projects to reduce our largest GHG emissions sources and are actively working on developing a long-term strategy for emission reductions, likely to be centered around nitrous oxide abatement at our Hopewell location. In addition, we expect to release new climate goals and targets later this year to reflect our intentions to reduce our climate footprint.

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

<Not Applicable>

C3.2

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

	Use of climate-related scenario analysis to inform strategy	Primary reason why your organization does not use climate-related scenario analysis to inform its strategy	Explain why your organization does not use climate-related scenario analysis to inform its strategy and any plans to use it in the future
Row 1	No, but we anticipate using qualitative and/or quantitative analysis in the next two years	Other, please specify (We are currently in the process of discussing our options and considering a path to develop scenario analysis.)	As part of our sustainability strategy, we will be looking to learn more about scenario-based analysis as an improvement or supplement to our TCFD risk assessment.

C3.3

(C3.3) Describe where and how climate-related risks and opportunities have influenced your strategy.

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	Because of climate related risks and interest from our customers in more sustainable products, we have undertaken an enterprise-wide Life Cycle Assessment (LCA) for all of our manufactured products. It will include cradle to gate GHG footprints for all product lines. After our LCA results are finalized and upon completion of third-party reviews we expect to be able to evaluate appropriate next step strategies with the information.
Supply chain and/or value chain	Yes	We joined Together for Sustainability (TfS) and are now incorporating their supplier assessment framework thru EcoVadis into our supplier management program. Climate is incorporated into our supplier assessment program in order to drive to a more sustainable supply chain model. We also have a representative on the pilot program team for sharing and gathering supplier data for product carbon footprints. In addition we expect to leverage information from our Life Cycle Analysis (LCA) to evaluate potential alternative feedstock that may be of interest to our product portfolio.
Investment in R&D	Yes	R&D activities have been part of the nylon PIR project as well as general knowledge base in sustainability topics as well as transition away from a coal based steam supply to a natural gas based steam supply. In addition, R&D teams have begun to scope projects to develop more sustainable product offerings.
Operations	Yes	Because of climate related risks, air compliance strategies, and interest from our customers in more sustainable products, we have undertaken an enterprise-wide Life Cycle Assessment which will include cradle to gate for all product lines. After our LCA results are available we expect to evaluate options for improving operational goals and strategies and evaluating where improvements may be necessary.

C3.4

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

	Financial planning elements that have been influenced	Description of influence
Row 1	Revenues Indirect costs Capital expenditures	<p>AdvanSix has recognized the importance of sustainability topics and climate change to our business strategies. We have added to our organizational structure a new role for a Senior Sustainability Director which was filled during the reporting year.</p> <p>The future of a low carbon economy has also factored into strategic business decisions and align with customer expectations. One example is the launch of our 100% post-industrial recycled nylon resin which helps support a circular economy and positions us well in the marketplace for customers interested in products with recycled content. Also, our enterprise-wide life cycle assessment that will lay the groundwork for future discussions with customers interested in sustainable products and engage conversations about carbon footprint. Putting additional investment into these activities now will frame the groundwork to be capable of increased demand in the future for sustainable products.</p> <p>There are also capital funds allotted to future and strategic sustainability improvement projects as part of our long-term financial planning.</p>

C3.5

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

	Identification of spending/revenue that is aligned with your organization's climate transition	Indicate the level at which you identify the alignment of your spending/revenue with a sustainable finance taxonomy
Row 1	No, but we plan to in the next two years	<Not Applicable>

C4. Targets and performance

C4.1

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

Absolute target

C4.1a

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

Target reference number

Abs 1

Is this a science-based target?

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

Target ambition

<Not Applicable>

Year target was set

2020

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Base year

2015

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

2769490

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

229355

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

<Not Applicable>

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

<Not Applicable>

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

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)
<Not Applicable>

Base year total Scope 3 emissions covered by target (metric tons CO2e)
<Not Applicable>

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)
2998845

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1
100

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2
100

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)
<Not Applicable>

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

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)
<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)
<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

100

Target year

2022

Targeted reduction from base year (%)

0.01

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

2998545.1155

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

2049918

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

179641

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

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

2229559

Does this target cover any land-related emissions?

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

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

256527.429727112

Target status in reporting year

Achieved

Please explain target coverage and identify any exclusions

Our goal is to not have any net increase of emissions year over year. AdvanSix reports emissions on an operational control basis. In 2022 we acquired U.S. Amines and they are incorporated into our emissions metrics for this 2022 reporting period. The inclusion of these two new locations has not had a material impact on our emissions (less than 0.5%) so prior years have not been updated to include U.S. Amines historical data. In addition, in 2022 we removed our headquarters' leased office space from inclusion in our metric because they are not material (less than 0.001%) to our emission footprint.

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

<Not Applicable>

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

In prior reporting years we had significant emission reductions from our natural gas boiler installation (in lieu of coal) at our Hopewell, VA location.

C4.2

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

Other climate-related target(s)

C4.2b

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

Target reference number

Oth 1

Year target was set

2020

Target coverage

Company-wide

Target type: absolute or intensity

Absolute

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

Engagement with suppliers	Other, please specify (Number of Supplier EcoVadis Assessments)
---------------------------	---

Target denominator (intensity targets only)

<Not Applicable>

Base year

2021

Figure or percentage in base year

90

Target year

2022

Figure or percentage in target year

140

Figure or percentage in reporting year

147

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

114

Target status in reporting year

Achieved

Is this target part of an emissions target?

Not at this time, we are not tracking supplier emission data at this time, however we are expecting to be able to evaluate supplier metrics in the future by leveraging our Life Cycle Assessment and/or our Together for Sustainability membership.

Is this target part of an overarching initiative?

Other, please specify (Supplier Engagement Target)

Please explain target coverage and identify any exclusions

This target covers all of our operations. Assessments are performed and tracked by Eco Vadis. All metrics regarding assessment status, results, corrective actions, and improvements are maintained within the Eco Vadis platform.

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

<Not Applicable>

List the actions which contributed most to achieving this target

AdvanSix is a member of Together for Sustainability® ("TfS"). The TfS network supports and accelerates AdvanSix's sustainable procurement programs by providing access to comprehensive CSR assessments and audits, driving the continued development of sustainable supply chain practices and enabling opportunities for best practices and knowledge-sharing within a network of companies committed to sustainability.

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	4	800000
To be implemented*	1	200000
Implementation commenced*	0	0
Implemented*	1	11166
Not to be implemented	0	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 production processes	Process optimization
---	----------------------

Estimated annual CO2e savings (metric tonnes CO2e)

11166

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

Scope 1

Voluntary/Mandatory

Voluntary

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

3360000

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

4000000

Payback period

1-3 years

Estimated lifetime of the initiative

>30 years

Comment

C4.3c

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

Method	Comment
Compliance with regulatory requirements/standards	Most of our improvement projects are developed by employees for HSES, operational, market strategy, or cost improvements that also support sustainability and climate improvement, they have multiple benefits. This year we have increased awareness at the operational level to enhance our environmental programs around minimizing emissions and ensuring compliance.
Employee engagement	Awareness has been improved by addressing the topic at all employee Town Hall meetings presented by the upper leadership teams as well as in goals and targets for improved environmental performance. Many of our projects have come from innovation sessions (ex. Convert trucks from diesel to electric and reducing truck idle time at our scale house).
Other (Ongoing evaluation of our carbon footprint)	Using historical data from prior years of emission calculations we can make evidence-based evaluations to determine our highest priority options for long term strategic planning which aligns with our sustainability goals.

C4.5

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

Yes

C4.5a

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

Level of aggregation

Group of products or services

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

Other, please specify (SCS Global Recycled Content Certification)

Type of product(s) or service(s)

Chemicals and plastics	Other, please specify (Post Industrial Recycled Content)
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Description of product(s) or service(s)

We manufacture Aegis® PA6 Resins and Capran® Biaxially Oriented Polyamide (BOPA) films which are available in 100% post-industrial recycled (PIR) grades. The products offer customers a way to address their sustainability goals by incorporating materials built on recycled monomers reclaimed from waste streams into their end products without compromises or trade-offs on performance. These product grades can be considered low carbon because manufacturing process requires less fossil-fuel derived raw materials and therefore have a smaller global warming potential (GWP) factor.

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

Yes

Methodology used to calculate avoided emissions

Other, please specify (Life Cycle Analysis)

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

Cradle-to-gate

Functional unit used

1 kg of PIR-PA6 resin

Reference product/service or baseline scenario used

1 kg traditional PA6 resin

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

Cradle-to-gate

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

Explain your calculation of avoided emissions, including any assumptions

We followed an attributional approach to our calculations and measured the difference in total cradle-to-grave emissions between our PIR-PA6 and our traditional PA6. The LCA was conducted in conformance with ISO 14040 and ISO 14044 and the comparison between our products is currently in the critical review process by a panel of independent experts. This result can be provided upon conclusion of the critical review process. The study used a stoichiometric (or elemental) based allocation when multiple products were being produced and the recycled content cut-off approach (100:0) so recycled content is assumed to be free of burdens.

The estimation of avoided emissions is based on the differences that arise from GWP of our traditional PA6 product - GWP of our PIR-PA6 product. It is currently proceeding through an independent panel review process.

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

C5. Emissions methodology

C5.1

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

No

C5.1a

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

Row 1

Has there been a structural change?

Yes, an acquisition

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

U.S. Amines

Details of structural change(s), including completion dates

In February 2022 AdvanSix acquired U.S. Amines, which has two manufacturing facilities located in Bucks, Alabama and Portsmouth, Virginia. This acquisition has an inconsequential (less than 0.5%) impact on the overall emission inventory.

C5.1b

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

	Change(s) in methodology, boundary, and/or reporting year definition?	Details of methodology, boundary, and/or reporting year definition change(s)
Row 1	Yes, a change in methodology	For 2022 global warming potentials have been updated to IPCC AR6 and we updated our results back to 2019 to align with our future climate goal and target year updates that will be finalized later in 2023. Also, some energy conversions have been updated to actual physical properties in lieu of general industry conversion factors to more accurately convert consumption data to emissions. In addition, the year 2020 has also had an update to the calculation due to an inconsistency that was found this reporting year. All updates are below our threshold for recalculations but have been recalculated for transparency purposes.

C5.1c

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

	Base year recalculation	Scope(s) recalculated	Base year emissions recalculation policy, including significance threshold	Past years' recalculation
Row 1	No, because the impact does not meet our significance threshold	<Not Applicable>	We recalculate emissions based on a 5% threshold, but may choose to recalculate for lower thresholds for transparency purposes.	Yes

C5.2

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

Scope 1

Base year start

January 1 2015

Base year end

December 31 2015

Base year emissions (metric tons CO2e)

2769490

Comment

Scope 2 (location-based)

Base year start

January 1 2015

Base year end

December 31 2015

Base year emissions (metric tons CO2e)

229355

Comment

Scope 2 (market-based)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 1: Purchased goods and services

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 2: Capital goods

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 4: Upstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 5: Waste generated in operations

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 6: Business travel

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 7: Employee commuting

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 9: Downstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 15: Investments

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (downstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.3

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

- IPCC Guidelines for National Greenhouse Gas Inventories, 2006
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- The Greenhouse Gas Protocol: Scope 2 Guidance
- The Greenhouse Gas Protocol: Corporate Value Chain (Scope 3) Standard
- US EPA Center for Corporate Climate Leadership: Direct Fugitive Emissions from Refrigeration, Air Conditioning, Fire Suppression, and Industrial Gases
- US EPA Center for Corporate Climate Leadership: Indirect Emissions From Purchased Electricity
- US EPA Center for Corporate Climate Leadership: Direct Emissions from Stationary Combustion Sources
- US EPA Center for Corporate Climate Leadership: Direct Emissions from Mobile Combustion Sources
- US EPA Mandatory Greenhouse Gas Reporting Rule
- US EPA Emissions & Generation Resource Integrated Database (eGRID)

C6. Emissions data

C6.1

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Reporting year

Gross global Scope 1 emissions (metric tons CO2e)
2049918

Start date
January 1 2022

End date
December 31 2022

Comment

In the 2022 reporting year emission factors were updated to align with USEPA emission factors in order to break down CO2e to the specific GHG contributor. Past years used a compilation of different emission factors for total CO2e, this change is inconsequential to the results. CO2e is determined from individual gases of CO2, N2O, CH4, and HFC's using 100-year GWP factors from IPCC AR6. The impact on our historical emissions was not material. However, emissions for prior reporting years back to 2019 have been updated for consistency in tracking emissions reduction activities in future years. Our acquisition of U.S. Amines is included in our 2022 emissions, however past years have not been updated to include U.S. Amines because the impact is immaterial.

Past year 1

Gross global Scope 1 emissions (metric tons CO2e)
2175996

Start date
January 1 2021

End date
December 31 2021

Comment

Past year 2

Gross global Scope 1 emissions (metric tons CO2e)
2015139

Start date
January 1 2020

End date
December 31 2020

Comment

Past year 3

Gross global Scope 1 emissions (metric tons CO2e)
2621872

Start date
January 1 2019

End date
December 31 2019

Comment

C6.2

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

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

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

Comment

We use eGRID emission factors from USEPA for our appropriate subregions to determine the CO2 emissions of electricity used at each facility.

C6.3

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

Reporting year

Scope 2, location-based

179641

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

January 1 2022

End date

December 31 2022

Comment

USEPA's eGRID emission data is used to compile our Scope 2 emissions using a location-based methodology. Our acquisition of U.S. Amines is included in our 2022 emissions; however past years have not been updated to include U.S. Amines because the impact is immaterial.

Past year 1

Scope 2, location-based

172347

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

January 1 2021

End date

December 31 2021

Comment

Past year 2

Scope 2, location-based

167382

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

January 1 2020

End date

December 31 2020

Comment

Past year 3

Scope 2, location-based

183606

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

January 1 2019

End date

December 31 2019

Comment

C6.4

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

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, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates purchased goods and services are relevant.

Capital goods

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates capital goods is below our threshold for significance.

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

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates fuel-and-related activities are relevant.

Upstream transportation and distribution

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates upstream transportation and distribution is below our threshold for significance.

Waste generated in operations

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates waste generated in operations is below our threshold for significance.

Business travel

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates business travel is below our threshold for significance.

Employee commuting

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates employee commuting is below our threshold for significance.

Upstream leased assets

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates upstream leased assets is below our threshold for significance.

Downstream transportation and distribution

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates downstream transportation and distribution is below our threshold for significance.

Processing of sold products

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Our Life Cycle Assessment is cradle to gate and does not include customer processes for each product, so we do not have any information on our customer's processes at this time. We are a highly integrated company and do not currently have enough information on our customer's manufacturing processes to estimate this impact, it is not feasible. In addition, most of our sales products are used as intermediates so it is not yet feasible to determine an estimate for the processing of sold products.

Use of sold products

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

1228803

Emissions calculation methodology

Supplier-specific method
Average product method
Site-specific method
Other, please specify (IPCC 2019 Ch. 11)

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

0

Please explain

Our Hopewell, VA facility has CO2 sales to local customers via pipeline. The pipeline is monitored by properly calibrated flow meters and the amount of CO2 supplied to customers in the food and beverage industry is calculated based on annual GHG regulatory reporting requirements. We also have included N2O emissions from use of fertilizers in agricultural applications and this calculation is based on IPCC 2019 Chapter 11 default value emission factor (EF1). This result does not include the impact of any other sold products.

End of life treatment of sold products

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates end of life treatment of sold products is below our threshold for significance.

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

An initial screening was completed in early 2022 to determine an initial baseline for scope 3 emissions in alignment with the GHG Protocol. Using this initial assessment, we are able to build a pareto chart to determine the relative impact of each scope and sub-category of emissions in relation to our total footprint in alignment with the Greenhouse Gas Protocol Technical Guidance for Calculating Scope 3 Emissions. Even though the baseline calculations were not using 2022 reporting year data we do not expect the emission to have large changes year over year so the percentages should not change either. Our baseline assessment indicates downstream leased assets is below our threshold for significance.

Franchises

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This is not relevant to our business, we do not have any franchises.

Investments

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

This is not relevant to our business.

Other (upstream)

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

The categories listed cover all of our business activities.

Other (downstream)

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

The categories listed cover all of our business activities.

C6.7

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

No

C6.10

(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO₂e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Intensity figure

0.0011459509

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

2229559

Metric denominator

unit total revenue

Metric denominator: Unit total

1945640000

Scope 2 figure used

Location-based

% change from previous year

18

Direction of change

Decreased

Reason(s) for change

Other emissions reduction activities
Acquisitions
Change in revenue

Please explain

Our emissions do not have large changes year over year, so revenue is the main driver for year over year changes to this metric. Comparing 2022 to 2021 sales were up approximately 15% versus prior year driven by 20% favorable impact of market-based pricing, 2% higher raw material pass-through pricing and 4% contribution from acquisitions, offset by 10% lower volume. We evaluate our intensity using a denominator that is based on business activity (production volume) which is listed on the next row.

Intensity figure

243.3

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

2229559

Metric denominator

unit of production

Metric denominator: Unit total

9163.7

Scope 2 figure used

Location-based

% change from previous year

0

Direction of change

No change

Reason(s) for change

Other emissions reduction activities
Acquisitions
Change in output

Please explain

Emissions per unit of production is more indicative of our operational processes. It can directly show our manufacturing efficiencies related to emissions per production unit as emissions are typically proportional to production volume. Our emissions are typically related to production volumes and do not see large changes year over year as they are not largely controllable by the manufacturing facility's day to day operations.

During this reporting period we implemented a change to how a unit of production is defined so the metric aligns better with our production processes. A unit of production is any new material generated by an intentional production process irrespective if it is sold as sales or consumed internally as an intermediate product. Last year (2021) intensity was recalculated to align with this change.

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	1067777	IPCC Sixth Assessment Report (AR6 - 100 year)
CH4	357	IPCC Sixth Assessment Report (AR6 - 100 year)
N2O	950772	IPCC Sixth Assessment Report (AR6 - 100 year)
HFCs	30627	IPCC Sixth Assessment Report (AR6 - 100 year)

C7.2

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

Country/area/region	Scope 1 emissions (metric tons CO2e)
United States of America	2049918

C7.3

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

By facility

C7.3b

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

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Frankford, PA	224560	40.005895	75.075637
Chesterfield, VA	60664	37.338532	77.282918
Hopewell, VA	1764614	37.298781	77.272453
Portsmouth, VA	21	30.986619	-88.023678
Bucks, AL	59	36.861529	-76.343878

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	2049918	<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/area/region.

Country/area/region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
United States of America	179641	

C7.6

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

By facility

C7.6b

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

Facility	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Frankford, PA	29343	
Hopewell, VA	111754	
Chesterfield, VA	29661	
Portsmouth, VA	3536	
Bucks, AL	5488	

C7.7

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

Not relevant as we do not have any subsidiaries

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	179641		
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
Natural gas		We have not yet calculated our Scope 3 Category 1 emissions.
Other base chemicals		We have not yet calculated our Scope 3 Category 1 emissions.

C-CH7.8a

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

	Sales, metric tons	Comment
Carbon dioxide (CO2)	407577	AdvanSix is a supplier of carbon dioxide.
Methane (CH4)	0	Not Applicable. AdvanSix does not sell methane as a product.
Nitrous oxide (N2O)	0	Not Applicable. AdvanSix does not sell nitrous oxide as a product.
Hydrofluorocarbons (HFC)	0	Not Applicable. AdvanSix does not sell any HFCs as a product.
Perfluorocarbons (PFC)	0	Not Applicable. AdvanSix does not sell any PFCs as a product.
Sulphur hexafluoride (SF6)	0	Not Applicable. AdvanSix does not sell SF6 as a product.
Nitrogen trifluoride (NF3)	0	Not Applicable. AdvanSix does not sell NF3 as a product.

C7.9

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

Decreased

C7.9a

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

	Change in emissions (metric tons CO2e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	0	No change	0	Not applicable for the 2022 reporting, no activities in this reason category.
Other emissions reduction activities	11166	Decreased	0.5	Continuous improvement for energy in 2022 calendar year.
Divestment	0	No change	0	Not applicable for the 2022 reporting, no activities in this reason category.
Acquisitions	9104	Increased	0.4	Emissions from our 2022 acquisition of U.S. Amines for this reporting year are not material, but provided to be a transparent reporter.
Mergers	0	No change	0	Not applicable for the 2022 reporting, no activities in this reason category.
Change in output	116758	Decreased	5	This is an estimate for how business activity data (production units) impacted this years reporting results. This is (2021 Scope 1+2 emissions + 2022 acquisitions) - (other emission reduction activities) - (2022 Scope 1+2 emissions)
Change in methodology	0	No change	0	This does not apply because 2021 results were updated to AR6 and recalculated on the same basis as 2022 reporting year.
Change in boundary	0	No change	0	Not applicable for the 2022 reporting, no activities in this reason category, this category is included in Change in output.
Change in physical operating conditions	0	No change	0	Not applicable for the 2022 reporting, no activities in this reason category.
Unidentified	0	No change	0	Not applicable for the 2022 reporting, no activities in this reason category.
Other	0	No change	0	Not applicable for the 2022 reporting, no activities in this reason category.

C7.9b

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

Location-based

C8. Energy

C8.1

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

More than 25% but less than or equal to 30%

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	No
Generation of electricity, heat, steam, or cooling	Yes

C8.2a

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

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	HHV (higher heating value)	0	4451185.23	4451185.23
Consumption of purchased or acquired electricity	<Not Applicable>	0	606242.27	606242.27
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>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	0	<Not Applicable>	0
Total energy consumption	<Not Applicable>	0	5057427.5	5057427.5

C-CH8.2a

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

Consumption of fuel (excluding feedstocks)

Heating value

HHV (higher heating value)

MWh consumed from renewable sources inside chemical sector boundary

0

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

4161897.37

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

289287.85

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

4451185.23

Consumption of purchased or acquired electricity

Heating value

<Not Applicable>

MWh consumed from renewable sources inside chemical sector boundary

0

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

606242.27

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

0

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

606242.27

Consumption of self-generated non-fuel renewable energy

Heating value

<Not Applicable>

MWh consumed from renewable sources inside chemical sector boundary

0

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

0

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

0

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

0

Total energy consumption

Heating value

<Not Applicable>

MWh consumed from renewable sources inside chemical sector boundary

0

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

4768139.64

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

289287.85

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

5057427.5

C8.2b

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

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

C8.2c

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

Sustainable biomass

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Other biomass

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Other renewable fuels (e.g. renewable hydrogen)

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Coal

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Oil

Heating value

HHV

Total fuel MWh consumed by the organization

4616.48

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

4616.48

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Gas

Heating value

HHV

Total fuel MWh consumed by the organization

4157280.89

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

633971.48

MWh fuel consumed for self-generation of steam

3523309.41

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

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

Heating value
HHV

Total fuel MWh consumed by the organization
289287.85

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

MWh fuel consumed for self-generation of heat
71841.01

MWh fuel consumed for self-generation of steam
217446.84

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

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

Comment

Total fuel

Heating value
HHV

Total fuel MWh consumed by the organization
4451185.23

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

MWh fuel consumed for self-generation of heat
705812.49

MWh fuel consumed for self-generation of steam
3745372.74

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

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

Comment

C8.2d

(C8.2d) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.

	Total Gross generation (MWh)	Generation that is consumed by the organization (MWh)	Gross generation from renewable sources (MWh)	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	0	0	0	0
Heat	705812.49	705812.49	0	0
Steam	3745372.74	3745372.74	0	0
Cooling	0	0	0	0

C-CH8.2d

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

Electricity

Total gross generation inside chemicals sector boundary (MWh)

0

Generation that is consumed inside chemicals sector boundary (MWh)

0

Generation from renewable sources inside chemical sector boundary (MWh)

0

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

0

Heat

Total gross generation inside chemicals sector boundary (MWh)

705812.49

Generation that is consumed inside chemicals sector boundary (MWh)

705812.49

Generation from renewable sources inside chemical sector boundary (MWh)

0

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

71841.01

Steam

Total gross generation inside chemicals sector boundary (MWh)

3745372.74

Generation that is consumed inside chemicals sector boundary (MWh)

3745372.74

Generation from renewable sources inside chemical sector boundary (MWh)

0

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

217446.84

Cooling

Total gross generation inside chemicals sector boundary (MWh)

0

Generation that is consumed inside chemicals sector boundary (MWh)

0

Generation from renewable sources inside chemical sector boundary (MWh)

0

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

0

C8.2g

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

Country/area

United States of America

Consumption of purchased electricity (MWh)

606242.27

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

606242.27

C-CH8.3

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

Yes

C-CH8.3a

(C-CH8.3a) Disclose details on your organization's consumption of fuels as feedstocks for chemical production activities.

Fuels used as feedstocks

Natural gas

Total consumption

417215.23

Total consumption unit

thousand cubic metres

Inherent carbon dioxide emission factor of feedstock, metric tons CO2 per consumption unit

0.57

Heating value of feedstock, MWh per consumption unit

10.6

Heating value

HHV

Comment

Our Hopewell, VA manufacturing site consumes natural gas as a reactant for ammonia production .

C-CH8.3b

(C-CH8.3b) State the percentage, by mass, of primary resource from which your chemical feedstocks derive.

	Percentage of total chemical feedstock (%)
Oil	0
Natural Gas	0
Coal	0
Biomass	0
Waste (non-biomass)	0
Fossil fuel (where coal, gas, oil cannot be distinguished)	100
Unknown source or unable to disaggregate	0

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.

Output product

Other, please specify (Total units of production (aggregated))

Production (metric tons)

4157764

Capacity (metric tons)

360606

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

0.493

Electricity intensity (MWh per metric ton of product)

0.146

Steam intensity (MWh per metric ton of product)

0.9

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

0.07

Comment

It is not feasible to aggregate the capacity for all of the production units at our manufacturing locations due to the complexity of our process and equipment. The nameplate capacity is for our caprolactam unit, which is only a portion of our production metric.

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	

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

Unable to disaggregate by technology area

Stage of development in the reporting year

<Not Applicable>

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

20

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

2500000

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

50

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

Our R&D technology group supports projects related to our sustainability topics which includes climate. Our R&D team is supporting our nitrous oxide abatement project at our Hopewell location, as well as identifying and evaluating feasibility of other emission reduction projects.

C10. Verification

C10.1

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

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

C10.1a

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

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Underway but not complete for reporting year – previous statement of process attached

Type of verification or assurance

Limited assurance

Attach the statement

2021SustainabilityReport.pdf

Page/ section reference

See page 33

Relevant standard

ISAE3000

Proportion of reported emissions verified (%)

100

C10.1b

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

Scope 2 approach

Scope 2 location-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Underway but not complete for reporting year – previous statement of process attached

Type of verification or assurance

Limited assurance

Attach the statement

2021SustainabilityReport.pdf

Page/ section reference

Page 33

Relevant standard

ISAE3000

Proportion of reported emissions verified (%)

100

C10.2

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

Yes

C10.2a

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

Disclosure module verification relates to	Data verified	Verification standard	Please explain
C8. Energy	Energy consumption	ISAE3000	C8.2a is verified as 'Energy Use' on our assurance statement. This metric is verified on an annual assurance cycle and covers 100% of our energy usage and is included in the Independent Assurance Statement attached to 10.1a and 10.1b. on page 33. 2021 SustainabilityReport (2).pdf

C11. Carbon pricing

C11.1

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

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

C11.2

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

No

C11.3

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

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

C12. Engagement

C12.1

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

Yes, our suppliers

Yes, our customers/clients

C12.1a

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

Type of engagement

Information collection (understanding supplier behavior)

Details of engagement

Collect other climate related information at least annually from suppliers

% of suppliers by number

5

% total procurement spend (direct and indirect)

15

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

0

Rationale for the coverage of your engagement

As part of our sustainability strategy efforts, we have developed a sustainable procurement program which includes a full-scale assessment of our procurement practices to align with our broader enterprise-wide sustainability strategy. This includes conducting Corporate Social Responsibility (CSR) risk assessments of our suppliers, educating and training our procurement organization regarding sustainable procurement policies and practices, tracking our key performance indicators to monitor supplier performance, and conducting annual reviews of supplier CSR assessments and policies. Our Supplier CSR risk is assessed using the EcoVadis IQ tool.

AdvanSix is a proud member of Together for Sustainability (TfS), a global, procurement-driven initiative that provides the de facto global standard for the ESG performance of chemical supply chains based on the UN Global Compact and Responsible Care® guiding principles. The CDP global disclosure framework, in its 2022 Global Supply Chain Report, found that supply chain emissions were on average 11.4 times higher than operational emissions. TfS enables member companies and their suppliers to assess, drive and improve sustainability performance of chemical supply chains through a shared infrastructure of assessments and audits. In 2022, the AdvanSix Procurement team used EcoVadis Assessments in our supply chain with a focus on our critical suppliers to understand and reduce potential supply, reputational, and regulatory risk. We measure success of our supplier engagement by tracking how many critical suppliers participate in our assessments as well as tracking their score results.

Impact of engagement, including measures of success

Measure of Success: We primarily measure success based on the number of supplier assessment completed in a year. We have met our target in 2022 with a result of 120 total supplier assessments vs the target of 120 supplier assessments, so our target was achieved. Secondly, we look for our suppliers to improve their scores year over year. For assessments submitted in 2022 we had less than 10% of our assessed suppliers with a lower score than prior assessments which demonstrates we have made continued progress over the past two years.

Comment

C12.1b

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

Type of engagement & Details of engagement

Collaboration & innovation	Other, please specify (Share our carbon footprint data with our customers)
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% of customers by number

1

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

0

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

Rationale: AdvanSix has embarked on the journey to better quantify our environmental impacts, initiating a cradle-to-gate life cycle assessment of its full product portfolio. This effort will allow us to attribute these impacts to intermediates that are consumed on-site and chemicals sold to the market, giving our customers a more accurate view into the emissions footprint associated with the products they buy from us. Our customers are very interested in the carbon footprint of our products as they work to define the carbon footprint of their products, we are their upstream (Scope 3) supplier, and we work with them to supply accurate and ISO 14040 and ISO 14044 compliant GWP results for our products. We have customers that are very engaged in tracking their upstream emissions so as we finalize our Life Cycle Assessment (LCA) we can begin sharing our information with our customers. We have started to share our information with our customers on a limited basis in 2022 as we finalize our LCA final report. Upon an independent panel critical review in 2023 we expect to have the GWP of all of our products company-wide. This has become a very visible piece of information in our nylon product lines, especially since we offer products with recycled content. We certify the recycled content in our caprolactam and resins using a third-party certification from SGS for recycled content % and have those product lines included in our LCA as well.

Impact of engagement, including measures of success

We have increased sales of our product lines that contain recycled content over last year. We are also taking action to complete an independent third-party review of our Life Cycle assessment in order to freely share our carbon footprint impact of all of our product lines and make a comparison between our products with recycled content and our conventional product.

C12.2

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

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

C12.2a

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

Climate-related requirement

Complying with regulatory requirements

Description of this climate related requirement

We have a supplier code of conduct that states AdvanSix is committed to integrity and compliance in everything we do. As part of that commitment, AdvanSix expects its suppliers to ensure that they provide their employees a safe working environment, that they treat their workers with dignity and respect, that they engage in environmentally sound and sustainable manufacturing processes, and that they comply with the law in all countries in which they conduct business.

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

100

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

100

Mechanisms for monitoring compliance with this climate-related requirement

- Certification
- Supplier self-assessment
- First-party verification
- Off-site third-party verification
- On-site third-party verification

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

Exclude

C12.3

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

Row 1

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

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

Yes, we fund organizations or individuals whose activities could influence policy, law, or regulation that may impact the climate

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

No, but we plan to have one in the next two years

Attach commitment or position statement(s)

<Not Applicable>

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

Our government relations team works to ensure that AdvanSix's legislative and regulatory interests are addressed in a professional and responsible way throughout the year. They work with legislative committees and regulatory agencies on an ongoing basis to keep informed and up-to-date. We seek to proactively impact all public policies, including but not limited to economic development, energy, environment, trade, product liability, procurement, research and development, right-to-work, solid waste and recycling, taxation, transportation, workforce development and higher education, and workplace safety. The Director of Government Relations is a member of our Sustainability Council. In addition, internal reviews take place between the Sr. Sustainability Director and the Government Relations Director to review legislation and trade association topics of interest that are meaningful to the topic of climate and our internal strategies with an action to communicate and engage internally and externally on certain topics when necessary.

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

<Not Applicable>

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

<Not Applicable>

C12.3b

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

Trade association

American Chemistry Council

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

Consistent

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

Yes, we publicly promoted their current position

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

American Chemistry Council (ACC) has publicly published Policy Recommendations for a Low Emissions Future which is aligned with our actions and strategies related to climate. Our CEO is the Vice Chairman of the Board for ACC, our Sr. Sustainability Director is a member of the Sustainability Steering Committee, and another employee participates on a climate committee and additional working groups to help influence ACC position on climate topics. Refer to <https://www.americanchemistry.com/better-policy-regulation/climate-change>

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

Describe the aim of your organization's funding

<Not Applicable>

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

Yes, we have evaluated, and it is aligned

C12.3c

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

Type of organization or individual

Independent consultant

State the organization or individual to which you provided funding

Capitol Hill Policy Group LLC

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

90000

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

The majority of this funding was related to federal regulatory matters related to fertilizer production with respect to climate impacts.

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

Yes, we have evaluated, and it is aligned

C12.4

(C12.4) Have you published information about your organization’s response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Publication

In voluntary sustainability report

Status

Underway – previous year attached

Attach the document

2021_Sustainability_Report.pdf

Page/Section reference

Pages 18-19

Content elements

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

Comment

C12.5

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

	Environmental collaborative framework, initiative and/or commitment	Describe your organization’s role within each framework, initiative and/or commitment
Row 1	UN Global Compact Other, please specify (Responsible Care, Operation Clean Sweep)	At AdvanSix, one of our core values is integrity, and we have always supported the values of the UN Global Compact. Formalizing that means we are committed to meeting fundamental responsibilities in four areas – Human Rights, Labor, Environment and Anti-Corruption – and providing an annual update on our progress toward implementing the UN Global Compact’s 10 principles and advancing the UN Sustainable Development Goals (SDGs). The UN Global Compact’s principles are part of our day-to-day business practices, connected with our organization’s empowered high-performing culture, and consistent with our overall commercial and sustainability strategies. AdvanSix is a Responsible Care® company with a sharp focus on safety and advancing as a sustainable enterprise. Responsible Care® is the environmental, health, safety and security performance initiative of the ACC. Our activities measured and reported through this program are an essential component of maintaining our strong ESG foundation. AdvanSix was proud to join Operation Clean Sweep®, adding our name to hundreds of other companies, in a commitment to managing plastic waste. Operation Clean Sweep (OCS) is the stewardship campaign organized by the Plastics Industry Association and the American Chemistry Council’s Plastics Division to achieve zero pellet, flake and powder loss from operations, with an action to keep these materials out of the marine environment. Our work with OCS is centered at our Chesterfield plant, where our Nylon 6 resins are produced.

C15. Biodiversity

C15.1

(C15.1) Is there board-level oversight and/or executive management-level responsibility for biodiversity-related issues within your organization?

	Board-level oversight and/or executive management-level responsibility for biodiversity-related issues	Description of oversight and objectives relating to biodiversity	Scope of board-level oversight
Row 1	No, but we plan to have both within the next two years	<Not Applicable>	<Not Applicable>

C15.2

(C15.2) Has your organization made a public commitment and/or endorsed any initiatives related to biodiversity?

	Indicate whether your organization made a public commitment or endorsed any initiatives related to biodiversity	Biodiversity-related public commitments	Initiatives endorsed
Row 1	No, but we plan to do so within the next 2 years	<Not Applicable>	<Not Applicable>

C15.3

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

Impacts on biodiversity

Indicate whether your organization undertakes this type of assessment

No, but we plan to within the next two years

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

Dependencies on biodiversity

Indicate whether your organization undertakes this type of assessment

No, but we plan to within the next two years

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

C15.4

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

Yes

C15.4a

(C15.4a) Provide details of your organization's activities in the reporting year located in or near to biodiversity -sensitive areas.

Classification of biodiversity -sensitive area

Other biodiversity sensitive area, please specify

Country/area

Please select

Name of the biodiversity-sensitive area

Proximity

Please select

Briefly describe your organization's activities in the reporting year located in or near to the selected area

Indicate whether any of your organization's activities located in or near to the selected area could negatively affect biodiversity

Please select

Mitigation measures implemented within the selected area

<Not Applicable>

Explain how your organization's activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

<Not Applicable>

C15.5

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

	Have you taken any actions in the reporting period to progress your biodiversity-related commitments?	Type of action taken to progress biodiversity- related commitments
Row 1	Yes, we are taking actions to progress our biodiversity-related commitments	Education & awareness

C15.6

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

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

C15.7

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

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

C-FI

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

C16.1

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

	Job title	Corresponding job category
Row 1	Senior Vice President and General Counsel	Other C-Suite Officer

SC. Supply chain module

SC0.0

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

SC0.1

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

	Annual Revenue
Row 1	1945640000

SC1.1

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

SC1.2

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

SC1.3

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

Allocation challenges	Please explain what would help you overcome these challenges
Doing so would require we disclose business sensitive/proprietary information	As a highly integrated company we have many products and customers across our enterprise. We are currently finalizing our Life Cycle Assessment and expect to be able to share business to business GWP or emissions data with our customers for each of our products after the third-party panel review is finalized. The review process is expected to be completed in 2023. We may or may not make this information readily shareable in a public format but are engaged with customers on the topic. We are also members of Together for Sustainability (TfS) and participate in their framework.

SC1.4

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

Yes

SC1.4a

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

We are currently finalizing our Life Cycle Assessment and upon completion of an independent panel review the data will be available to customers by product line. Limited information is available until the review process is completed.

SC2.1

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

SC2.2

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

No

SC4.1

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

No, I am not providing data

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Public

Please confirm below

I have read and accept the applicable Terms