

## Welcome to your CDP Climate Change Questionnaire 2019

### C0. Introduction

#### C0.1

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

We are a global manufacturer of differentiated organic chemical products. We operate in four segments: Polyurethanes, Performance Products, Advanced Materials and Textile Effects. Our products comprise a broad range of chemicals and formulations, which we market globally to a diversified group of consumer and industrial customers. Our products are used in a wide range of applications, including those in the adhesives, aerospace, automotive, construction products, personal care and hygiene, durable and non-durable consumer products, digital inks, electronics, medical, packaging, coatings and construction, power generation, refining, synthetic fiber, textile chemicals and dyes industries. We are a leading global producer in many of our key product lines, including MDI, amines, surfactants, maleic anhydride, epoxy-based polymer formulations, textile chemicals and dyes.

Huntsman is dedicated to addressing sustainability challenges around the globe. True to our motto “Enriching lives through innovation” and aligned with our vision for the future, we strive to develop world-class products that provide long-term societal and environmental solutions.

Our sustainability program is led by Corporate Sustainability Officer (CSO) Ron Gerrard and the Huntsman Sustainability Council, which comprises senior representatives from all our divisions and key functions. Our CSO reports progress to the governance committee of the Huntsman board of directors at least twice a year, and the board regularly discusses various environmental, social and governance (ESG) matters. Huntsman is committed to the United Nations Sustainable Development Goals and to Responsible Care®, the chemical industry’s environmental, health, safety and security performance initiative. Since 2010, we have published our annual Huntsman sustainability report to document our progress and demonstrate our commitment to the key pillars of sustainability: People, Planet, Profit.

In August 2017, we separated our P&A Business through an IPO of ordinary shares of Venator, formerly our wholly-owned subsidiary. As of December 31, 2018, we employed approximately 10,000 associates worldwide. Our revenues for the years ended December 31, 2018 were \$9,379 million.



## C0.2

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

	Start date	End date	Indicate if you are providing emissions data for past reporting years
Row 1	January 1, 2018	December 31, 2018	No

## C0.3

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

- Argentina
- Australia
- Belgium
- Brazil
- Canada
- China
- Colombia
- Germany
- Guatemala
- Hungary
- India
- Indonesia
- Italy
- Mexico
- Netherlands
- Pakistan
- Russian Federation
- Saudi Arabia
- Singapore
- Spain



- Switzerland
- Taiwan, Greater China
- Thailand
- Turkey
- United Kingdom of Great Britain and Northern Ireland
- United States of America
- Viet Nam

## 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 consolidation approach to your Scope 1 and Scope 2 greenhouse gas inventory.**

Financial control

## C-CH0.7

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

Row 1

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### **Bulk organic chemicals**

Ethylene Oxide & Ethylene glycol

### **Bulk inorganic chemicals**



**Other chemicals**

Specialty chemicals

Other, please specify

MDI Polyols PO/MTBE TPU Amines Surfactants Maleic Anhydride Composites Adhesives Resins Dyes Chemicals Inks

## C1. Governance

### C1.1

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

Yes

#### C1.1a

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

Position of individual(s)	Please explain
Board-level committee	Environmental, health and safety programs receive oversight by the Board of Director's Nominating and Corporate Governance Committee

#### 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	Please explain



Sporadic - as important matters arise	Reviewing and guiding major plans of action Reviewing and guiding risk management policies	Our sustainability program is led by our Corporate Sustainability Officer (CSO) and the Huntsman Sustainability Council, which comprises senior representatives from all our divisions and key functions. Our CSO reports progress to the Governance Committee of the Board at least twice a year, and the Board regularly discusses various environmental, social and governance (ESG) matters.
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## C1.2

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

Name of the position(s) and/or committee(s)	Responsibility	Frequency of reporting to the board on climate-related issues
Chief Sustainability Officer (CSO)	Both assessing and managing climate-related risks and opportunities	Half-yearly
Chief Executive Officer (CEO)	Other, please specify Overseeing CSO and Sustainability Committee	As important matters arise

## C1.2a

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

Climate-related issues are led by Corporate Sustainability Officer, the sustainability council comprises senior representatives from the company's divisions and key functions. The council directs development of the corporate sustainability program and cultivates a common framework for sustainability, ensuring strategic alignment among the divisions, functions and executive team, led by the Chairman, President and CEO.

## C1.3

**(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?**

No



## C2. Risks and opportunities

### C2.1

**(C2.1) Describe what your organization considers to be short-, medium- and long-term horizons.**

	From (years)	To (years)	Comment
Short-term	0	1	Annual Budgeting Cycle
Medium-term	1	3	Forward Forecasting Period
Long-term	3	10	Typical Strategic Planning Cycle

### C2.2

**(C2.2) Select the option that best describes how your organization's processes for identifying, assessing, and managing climate-related issues are integrated into your overall risk management.**

Integrated into multi-disciplinary company-wide risk identification, assessment, and management processes

### C2.2a

**(C2.2a) Select the options that best describe your organization's frequency and time horizon for identifying and assessing climate-related risks.**

	Frequency of monitoring	How far into the future are risks considered?	Comment
Row 1	Annually	Unknown	

### C2.2b

**(C2.2b) Provide further details on your organization's process(es) for identifying and assessing climate-related risks.**



An enterprise risk management assessment is conducted each year which risk ranks all major risks. This is led by the corporate risk manager who also works closely with our lead insurer who also brings an engineering-based risk assessment process to all of our facilities. Collectively we have invested in risk reduction projects and measures resulting from these assessments including climate related risk mitigation or prevention actions.

## C2.2c

### (C2.2c) Which of the following risk types are considered in your organization's climate-related risk assessments?

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	<p>Globally, our operations are increasingly subject to regulations that seek to reduce emissions of greenhouse gases (“GHGs”), such as carbon dioxide and methane, which may be contributing to changes in the earth’s climate. Huntsman follows the Kyoto Protocol regulation.</p> <p>We are already managing and reporting GHG emissions, to varying degrees, as required by law for our sites in locations subject to U.S. federal and state requirements, Kyoto Protocol obligations and/or ETS requirements. Although these sites are subject to existing GHG legislation, few have experienced or anticipate significant cost increases as a result of these programs, although it is possible that GHG emission restrictions may increase over time. Potential consequences of such restrictions include capital requirements to modify assets to meet GHG emission restrictions and/or increases in energy costs above the level of general inflation, as well as direct compliance costs. Currently, however, it is not possible to estimate the likely financial impact of potential future regulation on any of our sites.</p>
Emerging regulation	Relevant, sometimes included	<p>Federal climate change legislation in the U.S. appears unlikely in the near term. As a result, domestic efforts to curb GHG emissions will continue to be led by the U.S. Environmental Protection Agency’s (the “EPA”) GHG regulations and similar programs of certain states. To the extent that our domestic operations are subject to the EPA’s GHG regulations, we may face increased capital and operating costs associated with new or expanded facilities. Significant expansions of our existing facilities or construction of new facilities may be subject to the Clean Air Act’s (the “CAA”) requirements for pollutants regulated under the Prevention of Significant Deterioration and Title V programs. Some of our facilities are also subject to the EPA’s Mandatory Reporting of Greenhouse Gases rule, and any further regulation may increase our operational costs.</p>
Technology	Not evaluated	



Legal	Not evaluated	
Market	Not evaluated	
Reputation	Not evaluated	
Acute physical	Relevant, sometimes included	
Chronic physical	Not evaluated	
Upstream	Not evaluated	
Downstream	Not evaluated	

## C2.2d

**(C2.2d) Describe your process(es) for managing climate-related risks and opportunities.**

Principle climate related risks have been related to extreme weather events, flooding, storms, drought, etc. Programs have been undertaken to review the resilience of our operations to such events and certain measures put in place where economic and practical. These are mainly managed locally but funded through the allocation of corporate capital.

## 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.**



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**Identifier**

Risk 1

**Where in the value chain does the risk driver occur?**

Direct operations

**Risk type**

Physical risk

**Primary climate-related risk driver**

Acute: Increased severity of extreme weather events such as cyclones and floods

**Type of financial impact**

Reduced revenue from decreased production capacity (e.g., transport difficulties, supply chain interruptions)

🗨 All applicable financial impacts are:

- Reduced revenue from decreased production capacity (e.g., transport difficulties, supply chain interruptions)
- Write-offs and early retirement of existing assets (e.g., damage to property and assets in "high-risk" locations)
- Reduced revenues from lower sales/output
- Increased insurance premiums and potential for reduced availability of insurance on assets in "high-risk" locations

**Company- specific description**

N/A

**Time horizon**

Medium-term

**Likelihood**

More likely than not



**Magnitude of impact**

Medium

**Are you able to provide a potential financial impact figure?**

Yes, an estimated range

**Potential financial impact figure – minimum (currency)**

10,000,000

**Potential financial impact figure – maximum (currency)**

100,000,000

**Explanation of financial impact figure**

Extrapolation from Hurricane Harvey impacts.

**Management method**

Accounting Data

**Cost of management**

**Comment**

This risk examines severe weather related events that also include additional physical risks such as write-offs and early retirement of existing assets (e.g., damage to property and assets in "high-risk" locations), reduced revenues from lower sales/output and increased insurance premiums and potential for reduced availability of insurance on assets in "high-risk" locations. The \$10M - \$100M potential financial impact includes all four potential physical risks.

**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.**

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**Identifier**

Opp1

**Where in the value chain does the opportunity occur?**

Customer

**Opportunity type**

Resource efficiency

**Primary climate-related opportunity driver**

Move to more efficient buildings

**Type of financial impact**

Increased value of fixed assets (e.g., highly rated energy-efficient buildings)

**Company-specific description**

N/A

**Time horizon**

Long-term

**Likelihood**

Virtually certain

**Magnitude of impact**

High



**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Explanation of financial impact figure**

N/A

**Strategy to realize opportunity**

N/A

**Cost to realize opportunity**

**Comment**

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**Identifier**

Opp2

**Where in the value chain does the opportunity occur?**

Customer

**Opportunity type**

Products and services

**Primary climate-related opportunity driver**

Development of new products or services through R&D and innovation

**Type of financial impact**

Increased revenue through new solutions to adaptation needs (e.g., insurance risk transfer products and services)

**Company-specific description**

N/A

**Time horizon**

Long-term

**Likelihood**

Virtually certain

**Magnitude of impact**

High

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Explanation of financial impact figure**

N/A

**Strategy to realize opportunity**

N/A

**Cost to realize opportunity**

**Comment**

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**Identifier**

Opp3

**Where in the value chain does the opportunity occur?**

Customer



**Opportunity type**

Energy source

**Primary climate-related opportunity driver**

Other

**Type of financial impact**

Reduced operational costs (e.g., through use of lowest cost abatement)

**Company-specific description**

N/A

**Time horizon**

Long-term

**Likelihood**

Virtually certain

**Magnitude of impact**

High

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Explanation of financial impact figure**

N/A

**Strategy to realize opportunity**

N/A

**Cost to realize opportunity**



**Comment**

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**Identifier**

Opp4

**Where in the value chain does the opportunity occur?**

Customer

**Opportunity type**

Markets

**Primary climate-related opportunity driver**

Other

**Type of financial impact**

Increased revenues through access to new and emerging markets (e.g., partnerships with governments, development banks)

**Company-specific description**

N/A

**Time horizon**

Long-term

**Likelihood**

Virtually certain

**Magnitude of impact**

High

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Explanation of financial impact figure**

N/A

**Strategy to realize opportunity**

N/A

**Cost to realize opportunity**

**Comment**

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**Identifier**

Opp5

**Where in the value chain does the opportunity occur?**

Customer

**Opportunity type**

Resilience

**Primary climate-related opportunity driver**

Other

**Type of financial impact**

Increased revenue through new products and services related to ensuring resiliency

**Company-specific description**

N/A





**Time horizon**

Long-term

**Likelihood**

Virtually certain

**Magnitude of impact**

High

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Explanation of financial impact figure**

N/A

**Strategy to realize opportunity**

N/A

**Cost to realize opportunity**

**Comment**

**C2.5**

**(C2.5) Describe where and how the identified risks and opportunities have impacted your business.**

	<b>Impact</b>	<b>Description</b>
Products and services	Impacted for some suppliers, facilities, or product lines	Integrated raw material supplies also affected by extreme weather events.



Supply chain and/or value chain	Impacted for some suppliers, facilities, or product lines	Transport and Logistics services disrupted by severe weather.
Adaptation and mitigation activities	Not evaluated	
Investment in R&D	Not evaluated	
Operations	Not evaluated	Direct impact of severe weather on US Gulf Coast Assets.
Other, please specify	Not evaluated	

## C2.6

**(C2.6) Describe where and how the identified risks and opportunities have been factored into your financial planning process.**

	Relevance	Description
Revenues	Impacted for some suppliers, facilities, or product lines	This factors into our assessment of asset capacity.
Operating costs	Not impacted	
Capital expenditures / capital allocation	Not impacted	
Acquisitions and divestments	Not impacted	
Access to capital	Not impacted	
Assets	Not impacted	
Liabilities	Not impacted	
Other	Not impacted	

## C3. Business Strategy

### C3.1

#### (C3.1) Are climate-related issues integrated into your business strategy?

No

### C3.1f

#### (C3.1f) Why are climate-related issues not integrated into your business objectives and strategy?

We have not developed the in house expertise to integrate climate-related issues into our business strategy at this time, but do outline specific environmental, health and safety programs integral to our business operations.

##### **Environmental, Health and Safety Programs**

We are subject to extensive federal, state, local and international laws, regulations, rules and ordinances relating to occupational health and safety, process safety, pollution, protection of the environment and natural resources, product management and distribution, and the generation, storage, handling, transportation, treatment, disposal and remediation of hazardous substances and waste materials. In the ordinary course of business, we are subject to frequent environmental inspections and monitoring and occasional investigations by governmental enforcement authorities. In addition, our production facilities require operating permits that are subject to renewal, modification and, in certain circumstances, revocation.

##### **Environmental, Health and Safety Systems**

We are committed to achieving and maintaining compliance with all applicable EHS legal requirements, and we have developed policies and management systems that are intended to identify the multitude of EHS legal requirements applicable to our operations, enhance compliance with applicable legal requirements, improve the safety of our employees, contractors, community neighbors and customers and minimize the production and emission of wastes and other pollutants. We cannot guarantee, however, that these policies and systems will always be effective or that we will be able to manage EHS legal requirements without incurring substantial costs. Although EHS legal requirements are constantly changing and are frequently difficult to comply with, these EHS management systems are designed to assist us in our compliance goals while also fostering efficiency and improvement and reducing overall risk to us.

### **EHS Policy**

Throughout the Huntsman enterprise, our mission is to provide products and solutions through the application of science that enrich lives and help create a sustainable future, while doing no harm to people or the environment.

Our policy is to place care for human health, safety, and the environment at the forefront of everything we do.

Our vision is to prevent all harm through achieving excellence in environmental, health, and safety (EHS) performance in all aspects of our business.

### **We will achieve our mission, live our policy, and realize our vision by:**

- Strictly applying our Core Business Conduct Values: Honesty, Integrity, Respect, and Responsibility
- Committing to the guiding principles of Responsible Care®
- Proactively communicating environmental, health, and safety performance information regarding our operations and products to our stakeholders, which include our associates, contractors, distributors, customers, shareholders and the public
- Providing our associates, distributors, and customers with the information necessary to use, store, recycle, and dispose of our products in a safe and environmentally responsible manner
- Complying with applicable environmental, health, and safety laws and regulations, and our own company standards and procedures
- Aiming to continuously improve through the implementation of the Huntsman EHS standards and EHS auditing processes
- Establishing and reviewing EHS and sustainability goals, objectives, and targets
- Ensuring that all managers, associates, and contractors are aware of our mission, policy, and vision and have been trained in their specific responsibilities for achieving EHS excellence
- Identifying hazards and applying risk assessment and risk management processes to identify and control EHS risks in all aspects of our business activity
- It is the responsibility of management and associates to operate safe, clean, efficient, and compliant facilities and conduct our business activities in a sustainable, environmentally and socially responsible manner

## **C4. Targets and performance**

### **C4.1**

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

No target



## C4.1c

**(C4.1c) Explain why you do not have emissions target and forecast how your emissions will change over the next five years.**

	Primary reason	Five-year forecast	Please explain
Row 1	We are planning to introduce a target in the next two years	10% reduction in greenhouse gas emissions (scope 1) versus 2017 adjusted baseline per unit of production.	

## C4.2

**(C4.2) Provide details of other key climate-related targets not already reported in question C4.1/a/b.**

**Target**

Energy productivity

**KPI – Metric numerator**

Terra Joules

**KPI – Metric denominator (intensity targets only)**

Tonnes of Production

**Base year**

2017

**Start year**

2018

**Target year**

2025



**KPI in baseline year**

0.006022

**KPI in target year**

0.00542

**% achieved in reporting year**

24

**Target Status**

New

**Please explain**

This is one of our Horizon 2025 corporate strategy targets set in early 2019. For % achieved in reporting year, target was new (so no progress was expected against target in 2018). However, we did achieve a reduction in 2018.

**Part of emissions target**

Yes

**Is this target part of an overarching initiative?**

No, it's not part of an overarching initiative

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**Target**

Waste

**KPI – Metric numerator**

Metric Tonnes

**KPI – Metric denominator (intensity targets only)**

Tonnes of Production



**Base year**

2017

**Start year**

2018

**Target year**

2025

**KPI in baseline year**

0.094016

**KPI in target year**

0.089315

**% achieved in reporting year**

**Target Status**

New

**Please explain**

This is one of our Horizon 2025 corporate strategy targets set in early 2019. For % achieved in reporting year, target was new (so no progress was made against target in 2018). There was a 2.23% increase from baseline year.

**Part of emissions target**

No

**Is this target part of an overarching initiative?**

No, it's not part of an overarching initiative

## 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.**

No

## C4.3d

**(C4.3d) Why did you not have any emissions reduction initiatives active during the reporting year?**

Huntsman will be looking to release emission reduction targets and initiatives in the coming years.

## C4.5

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

Yes

## C4.5a

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

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**Level of aggregation**

Group of products

**Description of product/Group of products**

Specific avoided emissions have not been calculated, but products likely include: polyurethane formulations for insulation in residential and commercial applications; energy and water saving dyes (Avitera) for our textiles business; products that enable light-weighting in the aerospace,





automotive and transportation sectors - including composite resins through our advanced materials division. In addition, our TEROL polyols also use waste plastic (such as PET bottles) as raw material inputs, and thus may be considered both low-carbon and avoided emissions.

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

Avoided emissions

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

Other, please specify

Not formally calculated today, but we are considering doing so in future years

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

**Comment**

## C5. Emissions methodology

### C5.1

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

**Scope 1**

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**Base year start**

January 1, 2017

**Base year end**

December 31, 2017

**Base year emissions (metric tons CO<sub>2</sub>e)**



1,776,865

**Comment**

**Scope 2 (location-based)**

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**Base year start**

January 1, 2017

**Base year end**

December 31, 2017

**Base year emissions (metric tons CO<sub>2</sub>e)**

**Comment**

Scope 2 emissions in total are 801,463 tonnes.

**Scope 2 (market-based)**

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**Base year start**

January 1, 2017

**Base year end**

December 31, 2017

**Base year emissions (metric tons CO<sub>2</sub>e)**

**Comment**

Scope 2 emissions in total are 801,463 tonnes.

## C5.2

**(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions.**

IPCC Guidelines for National Greenhouse Gas Inventories, 2006

The Climate Registry: General Reporting Protocol

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

US EPA Mandatory Greenhouse Gas Reporting Rule

WBCSD: The Cement CO<sub>2</sub> and Energy Protocol

## C6. Emissions data

### C6.1

**(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO<sub>2</sub>e?**

**Reporting year**

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**Gross global Scope 1 emissions (metric tons CO<sub>2</sub>e)**

1,800,576

**Start date**

January 1, 2018

**End date**

December 31, 2018

**Comment**

## C6.2

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

#### Row 1

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##### **Scope 2, location-based**

We are not reporting a Scope 2, location-based figure

##### **Scope 2, market-based**

We have operations where we are able to access electricity supplier emission factors or residual emissions factors, but are unable to report a Scope 2, market-based figure

##### **Comment**

Huntsman's total Scope 2 indirect GHG emissions for the reporting period was 892,284 tonnes.

## C6.3

### (C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO<sub>2</sub>e?

#### Reporting year

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##### **Start date**

January 1, 2018

##### **End date**

December 31, 2018

##### **Comment**

Huntsman's total Scope 2 indirect GHG emissions for the reporting period was 892,284 tonnes.

## C6.4

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

Yes

### C6.4a

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

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**Source**

Non-industrial sites, such as sales and corporate offices, are not included.

**Relevance of Scope 1 emissions from this source**

Emissions are not relevant

**Relevance of location-based Scope 2 emissions from this source**

Emissions are not relevant

**Relevance of market-based Scope 2 emissions from this source (if applicable)**

Emissions are not relevant

**Explain why this source is excluded**

Sales and corporate offices are considered not material vs. the industrial manufacturing sources in boundary.

## C6.5

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



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### **Purchased goods and services**

#### **Evaluation status**

Not evaluated

#### **Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

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### **Capital goods**

#### **Evaluation status**

Not evaluated

#### **Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

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

#### **Evaluation status**

Not evaluated

#### **Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

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### **Upstream transportation and distribution**

#### **Evaluation status**

Not evaluated

#### **Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

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### **Waste generated in operations**



**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Business travel**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Employee commuting**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Upstream leased assets**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Downstream transportation and distribution**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Processing of sold products**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Use of sold products**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**End of life treatment of sold products**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Downstream leased assets**

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**Evaluation status**

Not evaluated



**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Franchises**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Investments**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Other (upstream)**

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**Evaluation status**

Not evaluated

**Explanation**

Huntsman does not disclose Scope 3 emissions data at this time.

**Other (downstream)**

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**Evaluation status**

Not evaluated

**Explanation**



Huntsman does not disclose Scope 3 emissions data at this time.

## C6.7

**(C6.7) Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?**

Yes

## C6.7a

**(C6.7a) Provide the emissions from biologically sequestered carbon relevant to your organization in metric tons CO2.**

Row 1

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**Emissions from biologically sequestered carbon (metric tons CO2)**

### Comment

Some sites are engaged in local conservation efforts, such as promotion or creation of wetlands, which may involve a degree of carbon sequestration. However, we do not track any emissions benefits from these sources currently.

## 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.**

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**Intensity figure**

0.358224

**Metric numerator (Gross global combined Scope 1 and 2 emissions)**

2,692,860

**Metric denominator**

unit of production

**Metric denominator: Unit total**

7,517,247

**Scope 2 figure used**

**% change from previous year**

0.23

**Direction of change**

Increased

**Reason for change**

Due to site variations (both increases and decreases), a number of factors contribute to this change. For example, our Port Neches facility produced less cogen electricity in 2018, vs. the prior year, due to planned unit shutdowns, which contributed to the increase in indirect GHG emissions.

## 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	1,723,982	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	4,376	IPCC Fourth Assessment Report (AR4 - 100 year)
HFCs	72,002	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	216	IPCC Fourth Assessment Report (AR4 - 100 year)

## C7.2

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

Country/Region	Scope 1 emissions (metric tons CO2e)
----------------	--------------------------------------

## C7.3

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

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

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

	Gross Scope 1 emissions, metric tons CO2e	Comment
Chemicals production activities		

## C7.5

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



Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)
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## C7.6

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

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

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

	Scope 2, location-based, metric tons CO2e	Scope 2, market-based (if applicable), metric tons CO2e	Comment
Chemicals production activities			

## C-CH7.8

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

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

## C-CH7.8a

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

	Sales, metric tons	Comment
Carbon dioxide (CO2)		
Methane (CH4)		



Nitrous oxide (N2O)		
Hydrofluorocarbons (HFC)		
Perfluorocarbons (PFC)		
Sulphur hexafluoride (SF6)		
Nitrogen trifluoride (NF3)		

### C7.9

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

Increased

### C7.9a

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

	Change in emissions (metric tons CO2e)	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption			1. Due to site variations (both increases and decreases), a number of factors contribute to this change. For example, our Port Neches facility produced less cogen electricity in 2018, vs. the prior year, due to planned unit shutdowns, which contributed to the increase in indirect GHG emissions. context 2. Increased production - 7,213,713 tonnes in 2017 versus 7,517,247 tonnes in 2018 3. Other site variations
Other emissions reduction activities			

Divestment			
Acquisitions			
Mergers			
Change in output			
Change in methodology			
Change in boundary			
Change in physical operating conditions			
Unidentified			
Other			

## 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?**

## C8. Energy

### C8.1

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

More than 5% but less than or equal to 10%



## C8.2

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

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

## C8.2a

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

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total MWh
Consumption of fuel (excluding feedstock)	Unable to confirm heating value			2,757,224.42
Consumption of purchased or acquired electricity				1,155,556.48
Consumption of purchased or acquired heat				
Consumption of purchased or acquired steam				
Consumption of purchased or acquired cooling				



Total energy consumption				3,912,780.9
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## C-CH8.2a

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

	Heating value	Total MWh
Consumption of fuel (excluding feedstock)	Unable to confirm heating value	2,757,224.42
Consumption of purchased or acquired electricity		1,155,556.48
Consumption of purchased or acquired heat		
Consumption of purchased or acquired steam		
Consumption of purchased or acquired cooling		
Total energy consumption		3,912,780.9

## 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.**



## C8.2f

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

## C-CH8.3

**(C-CH8.3) Disclose details on your organization’s consumption of feedstocks for chemical production activities.**

### C-CH8.3a

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

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



## C9. Additional metrics

### C9.1

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

---

**Description**

Waste

**Metric value**

722,507

**Metric numerator**

Tonnes

**Metric denominator (intensity metric only)**

**% change from previous year**

6.5

**Direction of change**

Increased

**Please explain**

Not tracked currently. Due to site variations (both increases and decreases), a number of factors contributed to this change.

---

**Description**



Energy usage

**Metric value**

44,163

**Metric numerator**

TJ

**Metric denominator (intensity metric only)**

**% change from previous year**

1.7

**Direction of change**

Increased

**Please explain**

Not tracked currently. Due to site variations (both increases and decreases), a number of factors contributed to this change.

**C-CH9.3a**

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

**C-CH9.6**

**(C-CH9.6) Disclose your organization's low-carbon investments for chemical production activities.**



## C10. Verification

### C10.1

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

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

### C10.2

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

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

## C11. Carbon pricing

### C11.1

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

Yes

### C11.1a

**(C11.1a) Select the carbon pricing regulation(s) which impacts your operations.**

EU ETS



Mexico carbon tax  
Shanghai pilot ETS  
Other carbon tax, please specify  
EU Climate Change Agreements

From Neil Wallace: "Wilton is part of EU ETS and Climate Change Agreements, and other sites in the EU may have regulatory requirements on Emissions reductions (for example I believe Rotterdam is committed to an annual relative energy reduction target by their regulatory authorities)."

## C11.1b

(C11.1b) Complete the following table for each of the emissions trading systems in which you participate.

### EU ETS

---

#### % of Scope 1 emissions covered by the ETS

#### Period start date

January 1, 2018

#### Period end date

December 31, 2018

#### Allowances allocated

36,471

#### Allowances purchased

0

#### Verified emissions in metric tons CO<sub>2</sub>e

5,449

#### Details of ownership



Facilities we own and operate

**Comment**

Wilton has a large excess of CO2 allowances, as these allowances awarded for EU ETS 3 are based on heat transfer as well as primary fuels burnt. The main supplier of heat, Sembcorp Utilities, chooses to invoice Huntsman for the cost of carbon credits they must acquire to cover their activities, rather than taking a transfer from Huntsman. As a result, Huntsman has traded or transferred surplus allowances from their registry account.

**Shanghai pilot ETS**

---

**% of Scope 1 emissions covered by the ETS**

0

**Period start date**

January 1, 2018

**Period end date**

December 31, 2018

**Allowances allocated**

71,697.78

**Allowances purchased**

5,755.72

**Verified emissions in metric tons CO2e**

36,571.72

**Details of ownership**

Facilities we own and operate

**Comment**



## C11.1c

(C11.1c) Complete the following table for each of the tax systems in which you participate.

### Mexico carbon tax

---

Period start date

Period end date

% of emissions covered by tax

Total cost of tax paid

Comment

### Other carbon tax, please specify

---

Period start date

Period end date

% of emissions covered by tax

Total cost of tax paid



## Comment

### C11.1d

#### **(C11.1d) What is your strategy for complying with the systems in which you participate or anticipate participating?**

In the UK we have operations which are voluntary members of the EU ETS and receives a relatively small amount of FAR CO2 credits for their incinerator. This is due to come off line and may then be outside of the ETS process. In the Netherlands we receive compensation for also being in a carbon leakage sector under state aid rules.

Our UK Operations are in the CIABATA scheme within the CIA's CCA (Chemical Industry Association and their Climate Change Agreement). These sites receive a reduced CCL charge on electricity (90%) and gas (60%) (Climate Change Levey = business GHG charge added to the invoice). The CCL and compensation is administered under the ETS state aid rules and CCL charges are increasing in the UK over the next two years (but may be impacted by Brexit). The UK expects to stay consistent under Brexit currently.

### C11.2

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

No

### C11.3

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

No, and we do not currently 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?**

No, we do not engage

### **C12.1d**

**(C12.1d) Why do you not engage with any elements of your value chain on climate-related issues, and what are your plans to do so in the future?**

### **C12.3**

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

Trade associations

### **C12.3b**

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

Yes

### **C12.3c**

**(C12.3c) Enter the details of those trade associations that are likely to take a position on climate change legislation.**

**Trade association**

American Chemistry Council

**Is your position on climate change consistent with theirs?**

Consistent

**Please explain the trade association's position**

Climate change is a global challenge that requires long-term commitment and action by every segment of society. A combination of technology, market-based and policy solutions will be necessary to reduce greenhouse gas emissions (GHG) and achieve climate goals, such as those of the Paris Agreement. US climate policy should integrate the following principles:

- Recognize U.S. energy security
- Achieve meaningful GHG emissions reductions
- Exempt non-emitting feedstocks
- Protect the competitiveness of US manufacturing
- Support investment in new technology and innovation in new products
- Adopt market signals and administrative provisions that send clear messages
- Implement a uniform, national policy
- Track progress

For more information, see ACC website.

**How have you influenced, or are you attempting to influence their position?**

We acknowledge the scientific data and support the need for reductions in carbon emissions. We also see that the Chemical Industry can play a leading role in the drive for carbon reduction through our products, CCS and CCU, and circular economy opportunities. We are participating, supportive, and have offered our opinions. Huntsman employees sit on ACC's Energy Committee and other committees and working groups, including the Sustainability Market Outreach committee, Responsible Care committee and other working groups. We follow developments and ensure that they are in line with Huntsman's interests.

### **Trade association**

European Chemical Industry Council (Cefic)

### **Is your position on climate change consistent with theirs?**

Consistent

### **Please explain the trade association's position**

CEFIC supports the EC position that a 1 Deg C increase in average temperatures has occurred and that unless change occurs by 2050 this will be over 1.5 Deg C. The EC wants to drive towards a Carbon Neutral economy in Europe and has published a vision for the mid-century. CEFIC has developed a discussion paper which identifies the role the Chemical Industry can play in helping achieve the EC's objectives and identifies the major obstacles which will have to be addressed to achieve this. Significant increases in clean electrification of industry, transport and the built environment being central to this.

The Cefic working group on Climate Change and Energy is responsible for issues pertaining to climate change.

Cefic strongly believes the way to achieve the move towards a low carbon economy is to fully expose renewables to the market which would drive down costs. Cefic supports a path to a low carbon economy under which the aim of the policy is to innovate down the cost of decarbonisation to make it competitive, rather than to increase the cost of essential feedstocks and energy.

The working group is active in the following areas pertaining to climate change:

1. Influence the development of EU's future strategy for long-term EU greenhouse gas emissions reductions and deal with any additional measures
2. Manage current and upcoming implementing laws for the EU Carbon Market, e.g. rules for Emissions Trading System delegated acts, carbon value, policy framework regarding carbon capture and storage, carbon capture and utilization
3. Gas Markets: lobby on upcoming Commission proposals and engage on the policy development on infrastructure and adaptation of the gas grid, future role of gas including low-carbon hydrogen, and gas quality
4. Long-Term: Carbon market principles post ETS

### **How have you influenced, or are you attempting to influence their position?**

We acknowledge the scientific data and support the need for reductions in carbon emissions. We also see that the Chemical Industry can play a leading role in the drive for carbon reduction through our products, CCS and CCU, and circular economy opportunities. We are participating, supportive, and have offered our opinions. Huntsman employees sit on the Cefic Energy and Climate Change Policy Committee. We do not take a leadership role in this committee however, we follow developments and ensure that they are in line with Huntsman's interests.

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**Trade association**

China Petroleum and Chemical Industry Federation

**Is your position on climate change consistent with theirs?**

Unknown

**Please explain the trade association's position**

We are not aware of a formal CPCIF position on climate change.

**How have you influenced, or are you attempting to influence their position?**

In China, Huntsman may engage in the conversation around accounting and reporting methodologies of CO<sub>2</sub> and other greenhouse gas emissions. For example, by advocating for adoption of a standard baseline methodology approach (vs. historic data methodology, which can in some instances disadvantage entities using more advanced, lower-emission technologies.)

## C12.3f

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

We do not have a formal climate change strategy. However, per our EHS Policy and Commitment, "Throughout the Huntsman enterprise, our mission is to provide products and solutions through the application of science that enrich lives and help create a sustainable future, while doing no harm to people or the environment."



## 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).**

## C14. 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.**

Please find additional sustainability information on Huntsman's Sustainability website: <https://www.huntsman.com/corporate/a/Sustainability>

### C14.1

**(C14.1) 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, Environmental, Health & Safety and Manufacturing Excellence	Chief Sustainability Officer (CSO)

## SC. Supply chain module

### SC0.0

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

We are a global manufacturer of differentiated organic chemical products. We operate in four segments: Polyurethanes, Performance Products, Advanced Materials and Textile Effects. Our products comprise a broad range of chemicals and formulations, which we market globally to a diversified



group of consumer and industrial customers. Our products are used in a wide range of applications, including those in the adhesives, aerospace, automotive, construction products, personal care and hygiene, durable and non-durable consumer products, digital inks, electronics, medical, packaging, coatings and construction, power generation, refining, synthetic fiber, textile chemicals and dyes industries. We are a leading global producer in many of our key product lines, including MDI, amines, surfactants, maleic anhydride, epoxy-based polymer formulations, textile chemicals and dyes.

Huntsman is dedicated to addressing sustainability challenges around the globe. True to our motto “Enriching lives through innovation” and aligned with our vision for the future, we strive to develop world-class products that provide long-term societal and environmental solutions.

Our sustainability program is led by Corporate Sustainability Officer (CSO) Ron Gerrard and the Huntsman Sustainability Council, which comprises senior representatives from all our divisions and key functions. Our CSO reports progress to the governance committee of the Huntsman board of directors at least twice a year, and the board regularly discusses various environmental, social and governance (ESG) matters. Huntsman is committed to the United Nations Sustainable Development Goals and to Responsible Care®, the chemical industry’s environmental, health, safety and security performance initiative. Since 2010, we have published our annual Huntsman sustainability report to document our progress and demonstrate our commitment to the key pillars of sustainability: People, Planet, Profit.

In August 2017, we separated our P&A Business through an IPO of ordinary shares of Venator, formerly our wholly-owned subsidiary. As of December 31, 2018, we employed approximately 10,000 associates worldwide. Our revenues for the years ended December 31, 2018 were \$9,379 million.

## SC0.1

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

	Annual Revenue
Row 1	9,379,000,000

## SC0.2

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

Yes



## SC0.2a

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

	ISIN country code (2 letters)	ISIN numeric identifier and single check digit (10 numbers overall)
Row 1	US	4470111075

## 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
-----------------------	--

## SC1.4

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

No





## **SC1.4b**

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

## **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

## **SC3.1**

**(SC3.1) Do you want to enroll in the 2019-2020 CDP Action Exchange initiative?**

No

## **SC3.2**

**(SC3.2) Is your company a participating supplier in CDP's 2018-2019 Action Exchange initiative?**

No

## **SC4.1**

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



No, I am not providing data

## Submit your response

**In which language are you submitting your response?**

English

**Please confirm how your response should be handled by CDP**

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

**Please confirm below**

I have read and accept the applicable Terms