

C0. Introduction

C0.1

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

Corning traces its origins to a glass business established in 1851. The present corporation was incorporated in the State of New York in December 1936. The Company's name was changed from Corning Glass Works to Corning Incorporated on April 28, 1989. Corning Incorporated is a leading innovator in materials science. For more than 165 years, Corning has combined its unparalleled expertise in glass science, ceramic science, and optical physics with deep manufacturing and engineering capabilities to develop category-defining products that transform industries and enhance people's lives. We succeed through sustained investment in research and development, a unique combination of material and process innovation, and deep, trust-based relationships with customers who are global leaders in their industries. Corning's capabilities are versatile and synergistic, allowing the company to evolve to meet changing market needs, while also helping our customers capture new opportunities in dynamic industries. Today, Corning's markets include optical communications, mobile consumer electronics, display technology, automotive emissions control and glass products and life sciences vessels. Corning's industry-leading products include damage-resistant cover glass for mobile devices; precision glass for advanced displays; optical fiber, wireless technologies, and connectivity solutions for state-of-the-art communications networks; trusted products to accelerate drug discovery and delivery; and clean-air technologies for cars and trucks. Corning operates in five reportable segments: Display Technologies, Optical Communications, Environmental Technologies, Specialty Materials and Life Sciences, and manufactures products at 108 sites in 15 countries (Corning 2018 annual report, page 1).

C0.2

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

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for
Reporting year	January 1 2018	December 31 2018	No	<Not Applicable>

C0.3

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

- Brazil
- China
- China, Hong Kong Special Administrative Region
- China, Macao Special Administrative Region
- Denmark
- France
- Germany
- Hungary
- India
- Israel
- Italy
- Japan
- Mexico
- Netherlands
- Poland
- Republic of Korea
- Russian Federation
- South Africa
- Taiwan, Greater China
- Turkey
- 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

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
Other, please specify (Director of Global Environment and Sustainability)	The Director of Global Environment and sustainability has the responsibility to track and report greenhouse gas emissions. The Director of Global Environment and Sustainability provides an oral presentation to the Corporate Relations Committee of the company Board of Directors annually, and provides an environmental dashboard to the Committee as part of materials provided in advance of each of the Committee's five regularly scheduled meetings.
Other, please specify (Director of Global Energy Management)	The Director of Global Energy Management has the responsibility to reduce Corning's manufacturing intensity. The Director of Global Energy Management works with businesses to develop unique solutions to reducing energy and greenhouse gas emissions. The Corporate Relations Committee provides oversight of Corning's environmental policies. Please visit the Governance section of our Investor Relations page at www.corning.com to view the Corporate Relations Committee charter.
Board-level committee	The function of Corning Incorporated's Corporate Relations Committee of the Board of Directors is to assist the Board of Directors in fulfilling its oversight responsibility by reviewing the corporation's strategies and policies in the areas of public relations and reputation, employment policy and employee relations, government and public policy, and environmental and community responsibility. The Director of Global Environment provides a report twice per year to the Corporate Relations Committee which includes climate-related issues. The Director also provides an environmental dashboard to the Committee as part of materials provided in advance of each of the Committee's five regularly scheduled meetings.
Other, please specify (Director of Sustainability)	The Director of sustainability has the responsibility for directing Corning's overall sustainability program and collaborates closely with the Global Environment and the Global Energy Management teams on climate-related issues. The Director, Sustainability provides an oral presentation to the Corporate Relations Committee of the company Board of Directors annually.

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 – all meetings	Reviewing and guiding strategy	<Not Applicable>	The Director of Global Environment and Sustainability have the responsibility to track and report greenhouse gas emissions and sustainability overall. The Director of Global Environment and Sustainability provide an oral presentation to the Corporate Relations Committee of the company Board of Directors at least annually, and provide an environmental dashboard to the Committee as part of materials provided in advance of each of the Committee's five regularly scheduled meetings. The Directors' presentation give an overview of strategies and actions Corning has put in place to reduce greenhouse gas emissions and recommend strategies that will create a positive and sustainable impact by Corning for years to come. The Committee members provide their feedback and/or approval of the presented information.

C1.2

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

Name of the position(s) and/or committee(s)	Reporting line	Responsibility	Coverage of responsibility	Frequency of reporting to the board on climate-related issues
Other C-Suite Officer, please specify (Chief Strategy Officer)	<Not Applicable>	Assessing climate-related risks and opportunities	<Not Applicable>	Annually
Sustainability committee	<Not Applicable>	Assessing climate-related risks and opportunities	<Not Applicable>	Quarterly

C1.2a

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

The sustainability committee includes representatives of the following functional areas with the following climate-related responsibilities:

- Chief Strategy Officer: Oversees overall company sustainability initiatives that include climate-related issues;
- Human Resources (including Diversity and Corporate Communications): Oversees social responsibility, labor practices, human rights policies and communications regarding climate-related issues;
- Global Supply Management (Procurement): Oversees sourcing and procurement of suppliers and vendors services as well as climate-related issues in the supply chain;
- Global Environment and Sustainability: Manage metrics regarding sustainability (energy use and greenhouse gas emissions, waste generation and recycling/disposal, water use and recycling/discharge)
- Global Safety: Manages metrics regarding employees health and safety.
- Investor Relations: Responsible for communicating our sustainability strategy to investors to include climate-related issues;
- Global Energy Management: Oversees energy initiatives including energy reduction strategy, electricity, renewable and water resources;
- Chief Engineer: Global Environment and Sustainability reports to the Chief Engineer;
- Chief Technology Officer: The Chief Engineer reports to the CTO;
- Corporate Secretary: The Corporate Secretary has responsibility for ensuring that corporate governance is addressed appropriately in Corning's sustainability program;
- Senior Vice President & Corporate Controller

The committee reports to the Board of Directors semi-annually. The Board oversees our enterprise risk management program and exercises oversight through its committee.

The members of the Sustainability committee were strategically selected to represent each relevant management area of Corning in relation to the assessment of climate related risks and opportunities.

C1.3

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

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	

C1.3a

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

Entitled to incentive	Type of incentive	Activity incentivized	Comment
All employees	Monetary reward	Emissions reduction project Energy reduction project Efficiency project	These efforts focus on supporting the company's sustainability initiatives and communicating climate change issues.
Energy manager	Non-monetary reward	Emissions reduction project Energy reduction project Efficiency project	Energy managers at Corning's operating facilities work closely with the Global Energy Management organization and frequently receive recognition for successful energy project completion by having their projects shared as best practices via Corning's intranet.
Energy manager	Monetary reward	Emissions reduction project Energy reduction project Efficiency project	Energy managers at Corning's operating facilities work closely with the Global Energy Management (GEM) organization and typically have performance targets regarding energy reduction projects and other aspects of the GEM program. When these targets are met, the energy managers are eligible for monetary rewards through Corning's performance incentive programs.
Other C-Suite Officer	Monetary reward	Energy reduction project Energy reduction target Environmental criteria included in purchases	Chief Strategy Officer oversees overall company sustainability initiatives that include climate-related issues who reports to our CEO. Annual performance reviews measure and assess accomplishments in global related programs, projects, and targets. The annual merit process is based on annual performance reviews. When targets are met, the Chief Strategy Officer is eligible for monetary rewards through Corning's performance incentive programs.

C2. Risks and opportunities

C2.1

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

Yes

C2.1a

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

	From (years)	To (years)	Comment
Short-term	0	1	
Medium-term	1	5	
Long-term	5	10	

C2.1b

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

C2.2

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

Value chain stage(s) covered

Direct operations

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

Annually

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Our Board of Directors oversees our enterprise risk management (ERM) program. The Board exercises this oversight responsibility directly and through its committees. The Board provides risk oversight through its review of potential risks including climate-related risks that could negatively impact the proposed budget and plan; approval and ongoing review of Corning's Framework and any risks including climate-related risks that may negatively affect it; review and approval of the rationale and risks including climate-related risks involved in proposed significant investment or divestiture actions; evaluation and approval of the compensation of our CEO and other senior executives; and monitoring of the Company's current research and development projects and associated risks including climate-related risks to such projects, including safeguards to manage information technology and cyber risks, among others. The Board also engages in periodic discussions regarding risks including climate-related risks with our CEO, chief financial officer, general counsel, chief compliance officer, and other Company officers, as it deems appropriate. Corning's ERM program is aligned to the COSO II framework and utilizes (1) a Risk Council composed of Corning management and staff to aggregate, prioritize and assess risks including climate-related risks, (financial, operational, business, reputational, governance and managerial risks); (2) an internal audit department; and (3) a Compliance Council, which reports directly to each of the Audit Committee and Corporate Relations Committee and reviews the Company's compliance with laws and regulations of the countries in which we conduct business, this includes climate-related laws and regulations that may pose risk to our operations. Management reports periodically to the Board on the Company's ERM policies and procedures and to the Audit, Finance, and Corporate Relations Committees on our top risks including top climate-related risks. Management also provides a comprehensive annual report of top risks including top climate-related risks to the Board. The climate related risks are assessed at least semi-annually, which is how often they are reported out to the Board. Corning Incorporated as a global company, faces many risks which could adversely impact our operations and reported financial results. We are a global company and derive a substantial portion of our revenues from, and have significant operations, outside of the United States. Our international operations include manufacturing, assembly, sales, research and development, customer support, and shared administrative service centers. Compliance with laws and regulations increases our costs. We are subject to both U.S. laws and local laws which, among other things, include data privacy requirements, employment and labor laws, tax laws, anti-competition regulations, prohibitions on payments to governmental officials, import and trade restrictions and export requirements. Noncompliance or violations could result in fines; criminal sanctions against us, our officers or our employees; and prohibitions on the conduct of our business. Such violations could result in prohibitions on our ability to offer our products and services in one or more countries and could also materially damage our reputation, our brand, our international expansion efforts, our ability to attract and retain employees, our business and our operating results. Our success depends, in part, on our ability to anticipate and manage these risks (CORNING INCORPORATED - 2018 Annual Report, pgs.7 & 8).

C2.2a

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

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	We are globally subject to strict environmental regulations and regulatory changes that could result in fines or restrictions that interrupt our operations. Some of our manufacturing processes generate chemical waste, waste water, other industrial waste or greenhouse gases, and we are subject to numerous laws and regulations relating to the use, storage, discharge, and disposal of such substances. Any failure on our part to comply with any present or future environmental regulations could result in the assessment of damages or imposition of fines against us, or the suspension/cessation of production or operations. Corning considers the risks associated with current regulations as part of our overall ERM program.
Emerging regulation	Relevant, always included	We are globally subject to strict environmental regulations and regulatory changes that could result in fines or restrictions that interrupt our operations. Some of our manufacturing processes generate chemical waste, waste water, other industrial waste or greenhouse gases, and we are subject to numerous laws and regulations relating to the use, storage, discharge and disposal of such substances. Any failure on our part to comply with any present or future environmental regulations could result in the assessment of damages or imposition of fines against us, or the suspension/cessation of production or operations. Corning considers the risks associated with emerging regulations as part of our overall ERM program.
Technology	Relevant, always included	We have installed anti-pollution equipment for the treatment of chemical waste and waste water at our facilities. We have taken steps to control the amount of greenhouse gases created by our manufacturing operations. However, we cannot provide assurance that environmental claims will not be brought against us or that government regulators will not take steps toward adopting more stringent environmental standards. Changes in regulations and the regulatory environment in the U.S. and other countries, such as those resulting from the regulation and impact of global warming and CO2 abatement, may affect our businesses and their results in adverse ways by, among other things, substantially increasing manufacturing costs, limiting availability of scarce resources, especially energy, or requiring limitations on production and sale of our products or those of our customers. CORNING INCORPORATED - 2018 Annual Report, page 10
Legal	Relevant, always included	We are globally subject to strict environmental regulations and regulatory changes that could result in fines or restrictions that interrupt our operations. Some of our manufacturing processes generate chemical waste, waste water, other industrial waste or greenhouse gases, and we are subject to numerous laws and regulations relating to the use, storage, discharge and disposal of such substances. We cannot provide assurance that environmental claims will not be brought against us or that government regulators will not take steps toward adopting more stringent environmental standards. Any failure on our part to comply with any present or future environmental regulations could result in the assessment of damages or imposition of fines against us, or the suspension/cessation of production or operations. Corning considers the risks associated with legal issues as part of our overall ERM program.
Market	Relevant, always included	Changes in regulations and the regulatory environment in the U.S. and other countries, such as those resulting from the regulation and impact of global warming and CO2 abatement, may affect our businesses and their results in adverse ways by, among other things, substantially increasing manufacturing costs, limiting availability of scarce resources, especially energy, or requiring limitations on production and sale of our products or those of our customers.
Reputation	Relevant, always included	Any failure on our part to comply with any present or future environmental regulations could result in the assessment of damages or imposition of fines against us, or the suspension/cessation of production or operations. In addition, environmental regulations could require us to acquire costly equipment, incur other significant compliance expenses or limit or restrict production or operations and thus materially and negatively affect our financial condition and results of operations. Changes in regulations and the regulatory environment in the U.S. and other countries, such as those resulting from the regulation and impact of global warming and CO2 abatement, may affect our businesses and their results in adverse ways by, among other things, substantially increasing manufacturing costs, limiting availability of scarce resources, especially energy, or requiring limitations on production and sale of our products or those of our customers. With the increase of customer interest in sustainable business practices, Corning faces a risk to our reputation if we are not in compliance with environmental regulations. Corning considers the risks associated with reputational issues as part of our overall ERM program.
Acute physical	Relevant, sometimes included	Acute physical risks, such as floods, earthquakes, tsunamis, hurricanes, typhoons and windstorms, as well as other events outside of Corning's control, could cause a disruption to our manufacturing operations and adversely impact our customers, resulting in a negative impact to Corning's net sales, net income, asset values and liquidity. Several of Corning facilities are located in coastal areas which presents the risk of impact by acute physical events.
Chronic physical	Relevant, sometimes included	Chronic physical risks, such as sea level rise, as well as other events outside of Corning's control, could cause a disruption to our manufacturing operations and adversely impact our customers, resulting in a negative impact to Corning's net sales, net income, asset values and liquidity. Several of Corning facilities are located in coastal areas which presents the risk of impact by chronic physical events.

C2.3

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

Yes

C2.3a

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

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation	Mandates on and regulation of existing products and services
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Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Page 10 of the Corning Incorporated - 2018 Annual Report discusses the following risk factor: Some of our manufacturing processes generate chemical waste, waste water, other industrial waste or greenhouse gases, and we are subject to numerous laws and regulations relating to the use, storage, discharge and disposal of such substances. We have installed anti-pollution equipment for the treatment of chemical waste and waste water at our facilities. We have taken steps to control the amount of greenhouse gases created by our manufacturing operations. However, we cannot provide assurance that environmental claims will not be brought against us or that government regulators will not take steps to adopt more stringent environmental standards. Any failure on our part to comply with any present or future environmental regulations could result in the assessment of damages or imposition of fines against us, or the suspension/cessation of production or operations. In addition, environmental regulations could require us to acquire costly equipment, incur other significant compliance expenses or limit or restrict production or operations and thus materially and negatively affect our financial condition and results of operations. Changes in regulations and the regulatory environment in the U.S. and other countries, such as those resulting from the regulation and impact of global warming and CO2 abatement, may affect our businesses and their results in adverse ways by, among other things, substantially increasing manufacturing costs, limiting availability of scarce resources, especially energy, or requiring limitations on production and sale of our products or those of our customers.

Time horizon

Short-term

Likelihood

About as likely as not

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Corning is looking into estimating full figures for future reporting years.

Cost of response to risk

0

Description of response and explanation of cost calculation

Confidential. Corning Incorporated uses an environmental management system to determine the environmental laws and regulations that apply to our operations and to develop strategies and processes to ensure compliance with these requirements.

Comment

As indicated above, Corning Incorporated devotes significant management attention and time to determining applicable environmental requirements at our operating facilities and to maintaining compliance with these requirements. However, the cost associated with this level of management attention has not been quantified at this time.

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Legal	Exposure to litigation
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Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Page 10 of the Corning Incorporated - 2018 Annual Report discusses the following risk factor: Some of our manufacturing processes generate chemical waste, waste water, other industrial waste or greenhouse gases, and we are subject to numerous laws and regulations relating to the use, storage, discharge and disposal of such substances. We have installed anti-pollution equipment for the treatment of chemical waste and waste water at our facilities. We have taken steps to control the amount of greenhouse gases created by our manufacturing operations. However, we cannot provide assurance that environmental claims will not be brought against us or that government regulators will not take steps to adopt more stringent environmental standards. Any failure on our part to comply with any present or future environmental regulations could result in the assessment of damages or imposition of fines against us, or the suspension/cessation of production or operations. In addition, environmental regulations could require us to acquire costly equipment, incur other significant compliance expenses or limit or restrict production or operations and thus materially and negatively affect our financial condition and results of operations. Changes in regulations and the regulatory environment in the U.S. and other countries, such as those resulting from the regulation and impact of global warming and CO2 abatement, may affect our businesses and their results in adverse ways by, among other things, substantially increasing manufacturing costs, limiting availability of scarce resources, especially energy, or requiring limitations on production and sale of our products or those of our customers.

Time horizon

Short-term

Likelihood

More likely than not

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

68000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Corning has been named by the Environmental Protection Agency (the Agency) under the Superfund Act, or by state governments under similar state laws, as a potentially responsible party for 15 active hazardous waste sites. Under the Superfund Act, all parties who may have contributed any waste to a hazardous waste site, identified by the Agency, are jointly and severally liable for the cost of cleanup unless the Agency agrees otherwise. It is Corning's policy to accrue for its estimated liability related to Superfund sites and other environmental liabilities related to property owned by Corning based on expert analysis and continual monitoring by both internal and external consultants. At December 31, 2018 and December 31, 2017, Corning had accrued approximately \$30 million (undiscounted) and \$38 million (undiscounted), respectively, for the estimated liability for environmental cleanup and related litigation. Based upon the information developed to date, management believes that the accrued reserve is a reasonable estimate of the Company's liability and that the risk of an additional loss in an amount materially higher than that accrued is remote. (Corning 2018 10K, page 19)

Cost of response to risk

0

Description of response and explanation of cost calculation

Confidential. Corning Incorporated uses an environmental management system to determine the environmental laws and regulations that apply to our operations and to develop strategies and processes to ensure compliance with these requirements.

Comment

As indicated above, Corning Incorporated devotes significant management attention and time to determining applicable environmental requirements at our operating facilities and to maintaining compliance with these requirements. However, the cost associated with this level of management attention has not been quantified at this time.

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Legal	Exposure to litigation
-------	------------------------

Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Page 10 of the Corning Incorporated - 2018 Annual Report discusses the following risk factor: Some of our manufacturing processes generate chemical waste, waste water, other industrial waste or greenhouse gases, and we are subject to numerous laws and regulations relating to the use, storage, discharge and disposal of such substances. We have installed anti-pollution equipment for the treatment of chemical waste and waste water at our facilities. We have taken steps to control the amount of greenhouse gases created by our manufacturing operations. However, we cannot provide assurance that environmental claims will not be brought against us or that government regulators will not take steps to adopt more stringent environmental standards. Any failure on our part to comply with any present or future environmental

regulations could result in the assessment of damages or imposition of fines against us, or the suspension/cessation of production or operations. In addition, environmental regulations could require us to acquire costly equipment, incur other significant compliance expenses or limit or restrict production or operations and thus materially and negatively affect our financial condition and results of operations. Changes in regulations and the regulatory environment in the U.S. and other countries, such as those resulting from the regulation and impact of global warming and CO2 abatement, may affect our businesses and their results in adverse ways by, among other things, substantially increasing manufacturing costs, limiting availability of scarce resources, especially energy, or requiring limitations on production and sale of our products or those of our customers. This risk factor, Policy and Legal: Other is intended to address the risk associated with changes in laws and regulations which may impact our operations.

Time horizon

Short-term

Likelihood

About as likely as not

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Corning is looking into estimating full figures for future reporting years.

Cost of response to risk

0

Description of response and explanation of cost calculation

Confidential. Corning Incorporated uses an environmental management system to determine the environmental laws and regulations that apply to our operations and to develop strategies and processes to ensure compliance with these requirements.

Comment

As indicated above, Corning Incorporated devotes significant management attention and time to determining potentially changing environmental requirements at our operating facilities and to adapting our compliance strategies to address these requirements. However, the cost associated with this level of management attention has not been quantified at this time.

Identifier

Risk 4

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

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

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Natural disasters such as floods, earthquakes, tsunamis and windstorms or other catastrophic event that results in the destruction or disruption of any of our critical facilities could severely affect our ability to conduct normal business operations and, as a result, our future financial results could be materially and adversely affected. For example, certain manufacturing sites require high quality, continuous, and uninterrupted power and access to industrial water. Unplanned outages could have a material negative impact on our operations and ability to supply our customers.

Time horizon

Long-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Corning is looking into estimating full figures for future reporting years.

Cost of response to risk

0

Description of response and explanation of cost calculation

Confidential. The statements in the Annual Report on Form 10-K, in reports subsequently filed by Corning with the Securities and Exchange Commission (SEC) on Form 10-Q and Form 8-K, and related comments by management that are not historical facts or information and contain words such as "will," "believe," "anticipate," "expect," "intend," "plan," "seek," "see," "would," and "target" and similar expressions are forward-looking statements. Such statements relate to future events that by their nature address matters that are, to different degrees, uncertain. These forward-looking statements relate to, among other things, the Company's future operating performance, the Company's share of new and existing markets, the Company's revenue and earnings growth rates, the Company's ability to innovate and commercialize new products, and the Company's implementation of cost-reduction initiatives and measures to improve pricing, including the optimization of the Company's manufacturing capacity. Although the Company believes that these forward-looking statements are based upon reasonable assumptions regarding, among other things, current estimates and forecasts, general economic conditions, its knowledge of its business, and key performance indicators that impact the Company, actual results could differ materially. (2018 Form 10-K page 58)

Comment

As indicated above, Corning Incorporated devotes significant management attention and time to determining potentially changing environmental requirements at our operating facilities and to adapting our compliance strategies to address these requirements. However, the cost associated with this level of management attention has not been quantified at this time.

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?

No

C2.4b

(C2.4b) Why do you not consider your organization to have climate-related opportunities?

	Primary reason	Please explain
Row 1	Opportunities exist, but none with potential to have a substantive financial or strategic impact on business	Corning Incorporated assesses each of our operating facilities for opportunities for improved management of climate-related issues annually through the implementation of an environmental management system developed in accordance with ISO 14001-2015. Opportunities are identified, assessed and implemented to improve our operations. Corning assesses the opportunities and generally implements those that meet our criteria for capital improvements. These improvements are beneficial to the environment and to our operations; however, we have not found them to have a substantive financial or strategic impact on the business at the corporate level.

C3. Business Strategy

C3.1

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

Yes

C3.1a

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

Yes, qualitative

C3.1b

(C3.1b) Provide details of your organization’s use of climate-related scenario analysis.

Climate-related scenarios and models applied	Details
Other, please specify (The Climate Registry)	Corning has used various aspects of climate change were considered when we conducted a thorough analysis of crucial equipment damage for two optical fiber manufacturing plants in the event of power outages. Inputs considered: Reliability of the grid, and the use of diesel generators using current and future loads during snow events, heavy rainfall, etc. Assumptions: Alternate primary power sources, including sustainable energy alternatives are used in the event of power outages. Time frame of outages were considered as well (5 minutes, 20 minutes, 1 day, 1 month). Time horizons considered: Short term (1-2 years) has been considered to be extremely relevant to the company as shutdown of any Corning manufacturing facilities can cause significant negative impacts to our operations. Areas considered: Two optical manufacturing plants in North Carolina. The assessment was implemented by a cross-functional, geographically diverse team of statistical modeling subject matter experts that used Monte Carlo simulations to compute and track power outage scenarios. A supplementary company-wide model can also be developed to score and rank risk profiles for each of the 70 manufacturing plants globally. The results of the scenario analysis have provided key information used in the development of business objectives and strategy and we are now focused on ensuring that negative impacts from sudden disruptions are always mitigated through constant modeling of our facilities. For example, we ran simulations where loss of power could shut down a facility in North Carolina. In response, we ensured that this was mitigated by implementing measures to have a consistent source of energy, such as bio-diesel generators on site, and solar farms that can provide a consistent supply of energy.

C3.1d

(C3.1d) Describe where and how climate-related risks and opportunities have influenced your strategy.

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	At this point in time, this information is confidential.
Supply chain and/or value chain	Yes	At this point in time, this information is confidential.
Investment in R&D	Yes	At this point in time, this information is confidential.
Operations	Yes	At this point in time, this information is confidential.

C3.1e

(C3.1e) Describe where and how climate-related risks and opportunities have influenced your financial planning.

	Financial planning elements that have been influenced	Description of influence
Row 1	Revenues Direct costs Capital expenditures Acquisitions and divestments	At this point in time, this information is confidential.

C3.1f

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

C4. Targets and performance

C4.1

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

No target

C4.1c

(C4.1c) Explain why you did not have an 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	Corning continues to see moderate growth in our absolute emissions and our emissions compared to revenue over the next five years as our business expands to keep pace with our customer requirements	Corning continues to focus on building a credible greenhouse gas inventory and to voluntarily report its emissions to The Climate Registry. Our greenhouse gas inventory shows that greater than 95% of our emissions are associated with energy use. Accordingly, Corning continues to focus on improving its processes and energy efficiency. Corning Incorporated received an Energy Star Partner Award in 2014, 2015, 2016, 2017 and 2018. Corning continues to see moderate growth in our absolute emissions and our emissions compared to revenue over the next five years as our business expands to keep pace with our customer requirements. Corning is currently focusing on establishing a credible GHG Inventory. In the future Corning will evaluate setting and implementing an emissions target. Corning expects to benchmark other companies to determine the industry standard for setting targets. When developed, targets will be reviewed with our company’s sustainability committee and Board of Directors for the final action plan in setting targets.

C4.2

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

No other climate-related targets

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 CO ₂ e savings in metric tonnes CO ₂ e (only for rows marked *)
Under investigation	4	0
To be implemented*	0	0
Implementation commenced*	31	4630
Implemented*	11	1302
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 buildings	Solar shading
--------------------------------	---------------

Estimated annual CO2e savings (metric tonnes CO2e)

702

Scope(s)

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

211000

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

510000

Payback period

1-3 years

Estimated lifetime of the initiative

6-10 years

Comment

Initiative category & Initiative type

Energy efficiency in production processes	Process optimization
-------------------------------------------	----------------------

Estimated annual CO2e savings (metric tonnes CO2e)

600

Scope(s)

Scope 1

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

267000

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

509800

Payback period

1-3 years

Estimated lifetime of the initiative

6-10 years

Comment

C4.3c

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

Method	Comment
Dedicated budget for energy efficiency	The Global Energy Management team has a capital budget dedicated to energy and water efficiency projects to help plants implement efficiency projects at each facility. Four categories of projects are eligible for this funding: 1)Plant/process energy efficiency improvements 2)Plant/Process water efficiency improvements 3)Demonstration or new technology project 4)Energy/water measurement and metering projects

C4.5

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

Yes

C4.5a

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

Level of aggregation

Group of products

Description of product/Group of products

Corning Environmental Technologies is focused on manufacturing substrates and filters designed to trap soot, or particulate matter, from diesel or gasoline exhaust emissions in a variety of light-duty and heavy-duty applications. Vehicle and engine manufacturers worldwide are striving to improve the fuel efficiency and performance of diesel engines while meeting soot particulate mass and particulate number emissions limits under real-world driving conditions. Corning® filters have proven their performance and durability in millions of vehicles. Its thin walls and low porosity allow for better fuel economy, lower CO2 emissions, and higher engine performance. But also to maintain thermal and mechanical robustness, resulting in high soot mass limits.

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

Evaluating the carbon-reducing impacts of ICT

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

11.3

% of total portfolio value

<Not Applicable>

Asset classes/ product types

<Not Applicable>

Comment

C5. Emissions methodology

C5.1

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

Scope 1

Base year start

January 1 2005

Base year end

December 31 2005

Base year emissions (metric tons CO2e)

289236

Comment

Scope 2 (location-based)

Base year start

January 1 2005

Base year end

December 31 2005

Base year emissions (metric tons CO2e)

722884

Comment

Scope 2 (market-based)

Base year start

January 1 2005

Base year end

December 31 2005

Base year emissions (metric tons CO2e)

722884

Comment

C5.2

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

The Climate Registry: General Reporting Protocol

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)

620380

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.2

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

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

We 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

C6.3

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

Reporting year

Scope 2, location-based

2106012

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.4

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

No

C6.5

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

Purchased goods and services

Evaluation status

Relevant, calculated

Metric tonnes CO2e

1435262566

Emissions calculation methodology

WRI/WBCSD GHG Protocol

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

30.2

Please explain

Capital goods

Evaluation status

Relevant, calculated

Metric tonnes CO2e

1589217569

Emissions calculation methodology

WRI/WBCSD GHG Protocol.

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

33.5

Please explain

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

Evaluation status

Relevant, calculated

Metric tonnes CO2e

587072400

Emissions calculation methodology

WRI/WBCSD GHG Protocol.

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

12.4

Please explain

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Metric tonnes CO2e

353028198

Emissions calculation methodology

WRI/WBCSD GHG Protocol.

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

7.4

Please explain

Waste generated in operations

Evaluation status

Relevant, calculated

Metric tonnes CO2e

15756885

Emissions calculation methodology

WRI/WBCSD GHG Protocol.

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

0.33

Please explain

Business travel

Evaluation status

Relevant, calculated

Metric tonnes CO2e

146432620

Emissions calculation methodology

WRI/WBCSD GHG Protocol.

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

3.1

Please explain

Employee commuting

Evaluation status

Relevant, calculated

Metric tonnes CO2e

20400000

Emissions calculation methodology

WRI/WBCSD GHG Protocol.

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

0.4

Please explain

Upstream leased assets

Evaluation status

Relevant, calculated

Metric tonnes CO2e

579154823

Emissions calculation methodology

WRI/WBCSD GHG Protocol.

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

12.2

Please explain

Downstream transportation and distribution

Evaluation status

Relevant, calculated

Metric tonnes CO2e

9544441

Emissions calculation methodology

WRI/WBCSD GHG Protocol.

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

0.2

Please explain

Processing of sold products

Evaluation status

Relevant, not yet calculated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Use of sold products

Evaluation status

Relevant, not yet calculated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Corning final product does not require direct energy use.

End of life treatment of sold products

Evaluation status

Relevant, calculated

Metric tonnes CO2e

14302358

Emissions calculation methodology

WRI/WBCSD GHG Protocol.

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

0.3

Please explain

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Corning does not lease any properties or assets

Franchises

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Corning is not a franchiser

Investments

Evaluation status

Relevant, not yet calculated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Other (upstream)

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Other (downstream)

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

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

0.0002414873

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

2726392

Metric denominator

unit total revenue

Metric denominator: Unit total

11290000000

Scope 2 figure used

Location-based

% change from previous year

1

Direction of change

Increased

Reason for change

The CO2e increase of 13% from 2017 to 2018, driven by production output increase of approximately 10% in the same timeframe, partially offset by the energy reduction projects referred to earlier. These projects, completed by our Global Energy Management group, include process improvement projects and LED lighting projects.

Intensity figure

53

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

2726392

Metric denominator

full time equivalent (FTE) employee

Metric denominator: Unit total

51500

Scope 2 figure used

Location-based

% change from previous year

2

Direction of change

Increased

Reason for change

While Corning Incorporated's CO2e emissions increased by 13% from 2017 to 2018, our FTE also increased by 11% in the same time frame. Therefore, our intensity figure didn't change from 2017 to 2018. Our CO2e emissions increased at about the same rate as our FTE. The CO2e increase of 13%, driven by production output increase of approximately 10%, partially offset by the energy reduction projects referred to earlier. These projects, completed by our Global Energy Management group, include process improvement projects and LED lighting projects.

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	615631	IPCC Fifth Assessment Report (AR5 – 100 year)
CH4	349	IPCC Fifth Assessment Report (AR5 – 100 year)
N2O	461	IPCC Fifth Assessment Report (AR5 – 100 year)
SF6	160	IPCC Fifth Assessment Report (AR5 – 100 year)
PFCs	141	IPCC Fifth Assessment Report (AR5 – 100 year)
HFCs	3538	IPCC Fifth Assessment Report (AR5 – 100 year)

C7.2

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

Country/Region	Scope 1 emissions (metric tons CO2e)
United States of America <i>North America</i>	325977
Europe, Middle East and Africa (EMEA) <i>non-North America</i>	61528
Asia Pacific (or JAPA)	226889
Latin America (LATAM)	5886

C7.3

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

By business division

C7.3a

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

Business division	Scope 1 emissions (metric ton CO2e)
Business Services	36646
Glass Technologies	196735
Environmental Technologies	231580
Life Sciences	5046
Pharmaceutical Technologies	57177
Specialty Materials	27178
Optical Communication	39108
Science and Technology	26811

C7.5

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

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted for in Scope 2 market-based approach (MWh)
United States of America	371285	0	1175686	0
Europe, Middle East and Africa (EMEA)	60273	0	157434	0
Asia Pacific (or JAPA)	1614776	0	2634167	0
Latin America (LATAM)	59678	0	108146	0

C7.6

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

By business division

C7.6a

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

Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Business Services	4537	0
Display Technologies	1488138	0
Environmental Technologies	105080	0
Life Sciences	36047	0
Pharmaceutical Technologies	34035	0
Specialty Materials	58384	0
Optical Communication	358047	0
Science and Technology	21744	0

C7.9

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

C7.9a

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

	Change in emissions (metric tons CO2e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	6.51	Decreased	0.06	the figure is calculated using the change in emissions CO2e (6.51 mton) divided by the previous year emission CO2e (11338.3 mton) multiply by 100%.
Other emissions reduction activities		<Not Applicable>		
Divestment		<Not Applicable>		
Acquisitions		<Not Applicable>		
Mergers		<Not Applicable>		
Change in output	317510	Increased	13	the figure is calculated using the change in emissions CO2e (317510 mton) divided by the previous year emission CO2e (2408882 mton) multiply by 100%.
Change in methodology		<Not Applicable>		
Change in boundary		<Not Applicable>		
Change in physical operating conditions		<Not Applicable>		
Unidentified		<Not Applicable>		
Other		<Not Applicable>		

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 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 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	Yes
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)	Unable to confirm heating value	0	2982314	2982314
Consumption of purchased or acquired electricity	<Not Applicable>	0	3991303	3991303
Consumption of purchased or acquired heat	<Not Applicable>	0	190	190
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>	84130	<Not Applicable>	84130
Total energy consumption	<Not Applicable>	84130	6973807	7057937

C8.2b

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

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

C8.2c

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

Fuels (excluding feedstocks)

Diesel

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

12933

MWh fuel consumed for self-generation of electricity

12345

MWh fuel consumed for self-generation of heat

588

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

0

Emission factor

0.22

Unit

kg CO2e per gallon

Emissions factor source

TCR Default Emission Factors

Comment

Fuels (excluding feedstocks)

Natural Gas

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

2896311

MWh fuel consumed for self-generation of electricity

64065

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

0

Emission factor

0.18

Unit

metric tons CO2e per million Btu

Emissions factor source

TCR Default Emission Factors

Comment

Fuels (excluding feedstocks)

Jet Kerosene

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

56080

MWh fuel consumed for self-generation of electricity

0

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

0

Emission factor

0.24

Unit

metric tons CO2e per MWh

Emissions factor source

TCR Default Emission Factors

Comment

Fuels (excluding feedstocks)

Propane Liquid

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

16990

MWh fuel consumed for self-generation of electricity

0

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

0

Emission factor

62.87

Unit

kg CO2 per million Btu

Emissions factor source

TCR Default Emission Factors

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	110995	4887	110995	4887
Heat	587.6	587.6	0	0
Steam	0	0	0	0
Cooling	0	0	0	0

C9. Additional metrics

C9.1

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

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
Complete

Type of verification or assurance
Reasonable assurance

Attach the statement
CY2018 Verification Statement - Corning Global.docx

Page/ section reference
pages 1,2 & 3

Relevant standard
The Climate Registry's General Verification Protocol

Proportion of reported emissions verified (%)
100

C10.1b

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

Scope 2 approach
Scope 2 location-based

Verification or assurance cycle in place
Annual process

Status in the current reporting year
Complete

Type of verification or assurance
Reasonable assurance

Attach the statement
CY2018 Verification Statement - Corning Global.docx

Page/ section reference
pages 1,2 &3

Relevant standard
The Climate Registry's General Verification Protocol

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
C9. Additional metrics	Other, please specify (Environmental performance indicators (waste))	Corning's internal reporting protocols and procedures.	Corning Incorporated management was responsible for preparing the Sustainability Data and for maintaining effective internal controls over the data and information disclosed. LRQA's responsibility was to carry out an assurance engagement on the Sustainability Data in accordance with our contract. Ultimately, the Sustainability Data have been approved by, and remain the responsibility of Corning Incorporated.

2018 Corning Data-Assurance Statement.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 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?
Yes, our customers

C12.1b

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

Type of engagement

Other, please specify (Corning Incorporated engages with our customers on climate-related issues by responding to customer-requested questionnaires, speaking with them on bench-marking phone calls and completing the CDP Climate Change questionnaire.)

Details of engagement

Please select

% of customers by number

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

Portfolio coverage (total or outstanding)

<Not Applicable>

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

Corning Incorporated's rationale for engagement is that we respond to customers who request sustainability-related information or request that we complete the CDP questionnaires.

Impact of engagement, including measures of success

Corning Incorporated responds to requests for information from customers. Our customers have consistently received our responses and reacted positively.

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?
Direct engagement with policy makers
Trade associations
Funding research organizations

C12.3a

(C12.3a) On what issues have you been engaging directly with policy makers?

Focus of legislation	Corporate position	Details of engagement	Proposed legislative solution
----------------------	--------------------	-----------------------	-------------------------------

C12.3b

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

Please select

C12.3d

(C12.3d) Do you publicly disclose a list of all research organizations that you fund?

Please select

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?

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

Complete

Attach the document

CY2018 Verification Statement - Corning Global.docx

Page/Section reference

1,2 & 3

Content elements

Emissions figures

Comment

Publication

Other, please specify

Status

Complete

Attach the document

2018 Profiles in Leadership - All Winners_2.pdf

Page/Section reference

page 18

Content elements

Other, please specify (greenhouse gas emissions avoided due to energy productivity improvement)

Comment

2018 Energy Star Awards

C15. Signoff

C-FI

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

C15.1

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

	Job title	Corresponding job category
Row 1	Director of Global Environmental and Sustainability	Environment/Sustainability manager

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	11290000000

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	2193501051

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 2020-2021 CDP Action Exchange initiative?
No

SC3.2

(SC3.2) Is your company a participating supplier in CDP's 2019-2020 Action Exchange initiative?
No

SC4.1

(SC4.1) Are you providing product level data for your organization's goods or services?
No, I am not providing data

Submit your response

In which language are you submitting your response?
English

Please confirm how your response should be handled by CDP

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

Please confirm below

I have read and accept the applicable Terms