

Maxim Integrated Products, Inc. - Climate Change 2018

C0. Introduction

C0.1

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

Maxim Integrated Products, Inc. designs, develops, manufactures and markets a broad range of linear and mixed-signal integrated circuits, commonly referred to as analog circuits for a large number of customers in diverse geographical locations. We are a leader in analog innovation and integration, unique among semiconductor companies in the range of disparate analog functions that we can combine onto a single chip. Maxim's highly integrated solutions help customers create systems that are smaller and more energy efficient.

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
Row 1	January 1 2017	December 31 2017	No	<Field Hidden>
Row 2	<Field Hidden>	<Field Hidden>	<Field Hidden>	<Field Hidden>
Row 3	<Field Hidden>	<Field Hidden>	<Field Hidden>	<Field Hidden>
Row 4	<Field Hidden>	<Field Hidden>	<Field Hidden>	<Field Hidden>

C0.3

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

Philippines

Thailand

United States of America

Other, please specify (All other worldwide small offices.)

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.

Operational control

C1. Governance

C1.1

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

No

C1.1c

(C1.1c) Why is there no board-level oversight of climate-related issues and what are your plans to change this in the future?

	Primary reason	Board-level oversight of climate-related issues will be introduced within the next two years	Please explain
Row 1		Yes, we plan to do so within the next two years	

C1.2

(C1.2) Below board-level, provide the highest-level management 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
Environment/ Sustainability manager	Both assessing and managing climate-related risks and opportunities	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.

The Corporate Director of Environmental Health and Safety and Sustainability (EHS&S) is responsible for all global environmental, health and sustainability-related programs and issues and is part of the Technology and Manufacturing Group whose Senior Vice President reports directly to the CEO.

The Corporate EHS&S Director's group monitors and tracks energy and water usage, waste generation and GHG emissions on a quarterly basis and is also responsible for:

1. Completing all customer surveys related to climate/sustainability issues.
2. Completing all annual government reporting requirements related to climate/environmental reporting.
3. Completing all non-government organization surveys related to climate and environmental issues.

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	
Medium-term	2	5	
Long-term	6	15	

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.

A specific climate change risk identification, assessment, and management process

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	3 to 6 years	

C2.2b

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

Identifying and assessing climate-related risks is part of Maxim Integrated's ISO 14001:2015 Management Program where all new or modified processes are evaluated using a change control process that measures risk, the environmental impact and the approximate amount of resource consumption (energy, water, materials) and waste generated (emissions, solid waste, wastewater), if any.

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	All risks that could have an environmental compliance impact, either federal, state or location regulations or specific permits are evaluated in detail.
Emerging regulation	Relevant, always included	Emerging regulations are monitored and risks are evaluated against them.
Technology	Relevant, always included	All new technology is weighed in terms of climate risks. Specific focus areas include energy consumption or new emissions from the new technology.

	Relevance & inclusion	Please explain
Legal	Relevant, always included	Legal includes new regulations or permit modifications which are also assessed in a risk format.
Market	Relevant, sometimes included	
Reputation	Relevant, always included	Company reputation is always included in climate-related risk assessments.
Acute physical	Relevant, always included	
Chronic physical	Relevant, always included	
Upstream	Relevant, sometimes included	
Downstream	Relevant, sometimes included	

C2.2d

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

Identifying and assessing climate-related risks is part of Maxim Integrated's ISO 14001:2015 Management Program where all new or modified processes are evaluated using a change control process that measures risk, estimates the environmental impact, if any and consumption of resources, if any. For new abatement equipment (e.g. Point-of-Use GHG abatement) or energy sources (e.g. Bloom Energy Systems), cost-benefit analyses are also completed.

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?

No

C2.3b

(C2.3b) Why do you not consider your organization to be exposed to climate-related risks with the potential to have a substantive financial or strategic impact on your business?

	Primary reason	Please explain
Row 1	Risks exist, but none with potential to have a substantive financial or strategic impact on business	The organization's exposure to climate-related risks are limited to: 1. More electrical consumption and increased costs related to additional cooling needed to moderate office and manufacturing environmental temperatures. 2. Potential of more frequent and longer droughts where Maxim has operations or offices. Historically these areas have not suffered often from droughts. 3. Potential for more climate-change related floods in areas where we have operations and offices. This risk is offset by the company's business continuity plan designed to minimize the threat of this and to ensure manufacturing or operations can be conducted or resumed at other locations.

C2.4

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

Yes

C2.4a

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

Identifier

Opp1

Where in the value chain does the opportunity occur?

Customer

Opportunity type

Resource efficiency

Primary climate-related opportunity driver

Other

Type of financial impact driver

Other, please specify

Company- specific description

We are a leader in analog innovation and integration, unique among semiconductor companies in the range of disparate analog functions that we can combine onto a single chip. Maxim's highly integrated solutions help customers create systems that are smaller and more energy efficient. Maxim also specializes in battery management and low-power consumption chips. Because we sell over 3 billion specific units annually that either replace older less-energy efficient products or are introduced

to the market in a new product - the overall net effect in reduced or avoided energy consumption is significant. Maxim will benefit as the market continues to demand more products designed to help save energy.

Time horizon

Long-term

Likelihood

Very likely

Magnitude of impact

High

Potential financial impact

1000000

Explanation of financial impact

It's conservatively estimated that our products save or avoid at least \$ 1,000,000 USD in energy costs per year.

Strategy to realize opportunity

Part of our core business.

Cost to realize opportunity

0

Comment

Part of our core business and current R&D.

C2.5

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

	Impact	Description
Products and services	Impacted	As energy costs and environmental conservation and sustainability efforts become more needed - our products become more important.
Supply chain and/or value chain	Impacted for some suppliers, facilities, or product lines	Some suppliers could be impacted by climate-related risks such as rising HVAC costs.
Adaptation and mitigation activities	Impacted for some suppliers, facilities, or product lines	Maxim Integrated has adapted by relocating manufacturing from areas that could be subjected to climate-related risks such as floods or droughts. Examples include closure of manufacturing operations in California and Texas while increasing manufacturing capacity in Oregon that is less prone to droughts.

	Impact	Description
Investment in R&D	Impacted for some suppliers, facilities, or product lines	One of Maxim's core product lines is low-power or power management chips. Maxim has invested significantly in this specialized area in order to maintain its leadership role.
Operations	Impacted for some suppliers, facilities, or product lines	As noted above the decision to close operations in California and Texas while increasing activity in Oregon was influenced somewhat by climate-related risks: higher energy costs and increased risk of droughts in California and Texas vs. less risk for both issues in Oregon.
Other, please specify	Please select	

C2.6

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

	Relevance	Description
Revenues	Not impacted	
Operating costs	Impacted for some suppliers, facilities, or product lines	Cost impact is minimum and consists of increased energy expenses for cooling.
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?

Yes

C3.1a

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

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

C3.1c

(C3.1c) Explain how climate-related issues are integrated into your business objectives and strategy.

Significant amounts of R&D resources are committed to battery management and low-power product design and development in order address the growing need for low-energy consumption and energy efficient products.

C3.1g

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

Climate-related scenario analysis issues are already covered by battery management and low energy research, same end-result.

C4. Targets and performance

C4.1

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

Intensity target

C4.1b

(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).

Target reference number

Int 1

Scope

Scope 1+2 (location-based)

% emissions in Scope

100

% reduction from baseline year

25.1

Metric

Metric tons CO2e per metric ton of product

Base year

2016

Start year

2017

Normalized baseline year emissions covered by target (metric tons CO2e)

105.67

Target year

2017

Is this a science-based target?

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science Based Targets initiative

% achieved (emissions)

74.9

Target status

Underway

Please explain

CY2016 (baseline) normalized emissions were 105.67 vs. 79.20 in CY2017 for a 25.1 % reduction.

% change anticipated in absolute Scope 1+2 emissions

3

% change anticipated in absolute Scope 3 emissions

0

C4.2

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

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?

Emission reduction initiatives were active but data is not available yet or considered confidential.

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?

No

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 2016

Base year end

December 31 2016

Base year emissions (metric tons CO₂e)

33140

Comment

Base year is CY2016 which represents a significant reduction from previous years (CY2011-2015).

Scope 2 (location-based)

Base year start

January 1 2016

Base year end

December 31 2016

Base year emissions (metric tons CO₂e)

0

Comment

Scope 2 (market-based)

Base year start

January 1 2016

Base year end

December 31 2016

Base year emissions (metric tons CO₂e)

85638

Comment

Base year is CY2016 which represents a significant reduction from previous years (CY2011-2015).

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

US EPA Climate Leaders: Direct Emissions from Stationary Combustion

US EPA Mandatory Greenhouse Gas Reporting Rule

Other, please specify (2014 IPCC and US EPA)

C5.2a

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

1) 2014 Intergovernmental Panel on Climate Change - Global Warming Potential of selected electricity sources for:

Biomass - Dedicated: 230 gCO₂eq/kWh

Solar PV - Utility Scale: 48 gCO₂eq/kWh

Hydropower - 24 gCO₂eq/kWh

Wind Onshore - 11 gCO₂eq/kWh

2) US EPA Power Profiler for calculating unspecified electricity sources.

C6. Emissions data

C6.1

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

Row 1

Gross global Scope 1 emissions (metric tons CO2e)

43736

End-year of reporting period

<Field Hidden>

Comment

CY2017 or from January 01, 2017 through December 31, 2017.

Row 2

Gross global Scope 1 emissions (metric tons CO2e)

<Field Hidden>

End-year of reporting period

<Field Hidden>

Comment

<Field Hidden>

Row 3

Gross global Scope 1 emissions (metric tons CO2e)

<Field Hidden>

End-year of reporting period

<Field Hidden>

Comment

<Field Hidden>

Row 4

Gross global Scope 1 emissions (metric tons CO2e)

<Field Hidden>

End-year of reporting period

<Field Hidden>

Comment

<Field Hidden>

C6.2

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

Row 1

Scope 2, location-based

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

Scope 2, market-based

We are reporting a Scope 2, market-based figure

Comment

C6.3

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

Row 1

Scope 2, location-based

<Field Hidden>

Scope 2, market-based (if applicable)

50605.63

End-year of reporting period

<Field Hidden>

Comment

Row 2

Scope 2, location-based

<Field Hidden>

Scope 2, market-based (if applicable)

<Field Hidden>

End-year of reporting period

<Field Hidden>

Comment

<Field Hidden>

Row 3

Scope 2, location-based

<Field Hidden>

Scope 2, market-based (if applicable)

<Field Hidden>

End-year of reporting period

<Field Hidden>

Comment

<Field Hidden>

Row 4

Scope 2, location-based

<Field Hidden>

Scope 2, market-based (if applicable)

<Field Hidden>

End-year of reporting period

<Field Hidden>

Comment

<Field Hidden>

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 Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Capital goods

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

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

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Upstream transportation and distribution

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Waste generated in operations

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Business travel

Evaluation status

Relevant, not yet calculated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Employee commuting

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Upstream leased assets

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Downstream transportation and distribution

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Processing of sold products

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Use of sold products

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

End of life treatment of sold products

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Products are minor components of larger systems or equipment.

Downstream leased assets

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Franchises

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

We have no unaccounted franchises.

Investments

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Other (upstream)

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

Other (downstream)

Evaluation status

Not evaluated

Metric tonnes CO2e

Emissions calculation methodology

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

Explanation

C6.7

(C6.7) Are carbon dioxide emissions from biologically sequestered 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

39.61

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

94341.53

Metric denominator

unit total revenue

Metric denominator: Unit total

2382

Scope 2 figure used

Market-based

% change from previous year

25.53

Direction of change

Decreased

Reason for change

We purchased cleaner electricity for our larger locations. For example, starting on January 01, 2017, the Cavite, Philippines operations is now supplied electricity from only a renewable source, (geothermal) while renewable sources provided 35% of the Beaverton, Oregon facility's electricity. Approximately 35% of the electricity purchased for the HQ/San Jose, California campus was also from renewable sources.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization have greenhouse gas emissions other than carbon dioxide?

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	8703.2	IPCC Second Assessment Report (SAR - 50 year)
CH4	2	IPCC Second Assessment Report (SAR - 100 year)
N2O	368.03	IPCC Second Assessment Report (SAR - 100 year)
HFCs	4312.72	IPCC Second Assessment Report (SAR - 100 year)
NF3	75.68	IPCC Second Assessment Report (SAR - 100 year)
SF6	14049.36	IPCC Second Assessment Report (SAR - 100 year)
PFCs	15595.9	IPCC Second Assessment Report (SAR - 100 year)
Other, please specify (HTF CAS# 69991-67-9 (e))	629	Other, please specify (United States EPA Guidance)

C7.2

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

Country/Region	Scope 1 emissions (metric tons CO2e)
Other, please specify (All design centers and small offices) <i>This is the total from all our design centers and sales offices worldwide that are included in the country totals below. This is approximately 40 different locations.</i>	751.3
United States of America	42932
Philippines	51.7
Thailand	0.9

C7.3

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

By facility

C7.3b

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

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
All design centers and sales offices combined worldwide.	751.3	0	0
Headquarters/San Jose, CA. USA	3727.7	37.405415	121.94996
Beaverton, Oregon Manufacturing Center	39204.3	45.502095	122.824664
Cavite, Philippines Test Center	51.7	14.268811	120.92279
Chonburi, Thailand Test Center	0.9	13.419685	101.008389

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)
Other, please specify (A) <i>All worldwide design centers and sales offices.</i>	0	4739	10345	0
United States of America	0	27253.88	102165	35757.75
Philippines	0	5060.34	55664	55664
Thailand	0	13552.41	23262	0

C7.6

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

By facility

C7.6b

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

Facility	Scope 2 location-based emissions (metric tons CO2e)	Scope 2, market-based emissions (metric tons CO2e)
All worldwide design centers and sales office (approximately 40 locations).	0	4739
Beaverton, Oregon Manufacturing Center	0	26242.43
Headquarters Center in San Jose, California	0	1011.45
Cavite, Philippines Test Center	0	5060.34
Chonburi, Thailand Test Center	0	13552.41

C7.9

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

Decreased

C7.9a

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

	Change in emissions (metric tons CO2e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	32314	Decreased	41.86	Beaverton, Oregon, San Jose, California and Cavite, Philippines reduced their combined Scope 2 Emissions by 32,314 MT CO2e due to: 1. Beaverton and San Jose: 35% electricity supplied was from renewable sources according to Calpine provider. 2) Cavite: switched to 100% geothermal generated electricity in 2017.
Other emissions reduction activities	424	Decreased	10.2	Less natural gas and diesel fuel consumption due Bloom Energy System modification and efficiency improvements.
Divestment	17703	Decreased	69	Closed the Dallas, Texas manufacturing facility which accounted for 17,703 MT CO2e in 2016.
Acquisitions	0	No change		
Mergers	0	No change		
Change in output	0	No change		Production levels increased 6 percent.
Change in methodology	5490.3	Increased		Estimated Scope 1 and Scope 2 emissions from all worldwide design centers and sales offices.
Change in boundary	0	No change		
Change in physical operating conditions	0	No change		
Unidentified	0	No change		
Other	0	No change		

C7.9b

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

Market-based

C8. Energy

C8.1

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

More than 0% but less than or equal to 5%

C8.2

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

	Indicate whether your organization undertakes this energy-related activity
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	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)	HHV (higher heating value)	0	46732.64	46732.64
Consumption of purchased or acquired electricity	<Field Hidden>	91422.01	100015.25	191437.26
Consumption of purchased or acquired heat	<Field Hidden>	<Field Hidden>	<Field Hidden>	<Field Hidden>
Consumption of purchased or acquired steam	<Field Hidden>	<Field Hidden>	<Field Hidden>	<Field Hidden>
Consumption of purchased or acquired cooling	<Field Hidden>	<Field Hidden>	<Field Hidden>	<Field Hidden>
Consumption of self-generated non-fuel renewable energy	<Field Hidden>	<Field Hidden>	<Field Hidden>	<Field Hidden>

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total MWh
Total energy consumption	<Field Hidden>	91422.01	146747.89	238169.9

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	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.

Fuels (excluding feedstocks)

Diesel

Heating value

HHV (higher heating value)

Total fuel MWh consumed by the organization

273.83

MWh fuel consumed for the self-generation of electricity

273.83

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

<Field Hidden>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Field Hidden>

Fuels (excluding feedstocks)

Natural Gas

Heating value

HHV (higher heating value)

Total fuel MWh consumed by the organization

46458.81

MWh fuel consumed for the self-generation of electricity

16717.11

MWh fuel consumed for self-generation of heat

29741.7

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Field Hidden>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Field Hidden>

C8.2d

(C8.2d) List the average emission factors of the fuels reported in C8.2c.

Acetylene

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Agricultural Waste

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Alternative Kiln Fuel (Wastes)

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Animal Fat

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Animal/Bone Meal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

**Anthracite Coal
Emission factor**

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Asphalt

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Aviation Gasoline

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Bagasse

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Bamboo

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Basic Oxygen Furnace Gas (LD Gas)

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Biodiesel

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Biodiesel Tallow

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Biodiesel Waste Cooking Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Bioethanol

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Biogas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Biogasoline

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Biomass Municipal Waste

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Biomethane

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Bitumen

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Bituminous Coal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Black Liquor

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Blast Furnace Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Brown Coal Briquettes (BKB)

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Burning Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Butane

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Butylene

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Charcoal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Coal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Coal Tar

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Coke

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Coke Oven Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Coking Coal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Compressed Natural Gas (CNG)

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Condensate

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Crude Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Crude Oil Extra Heavy

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Crude Oil Heavy

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

**Crude Oil Light
Emission factor**

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Diesel

Emission factor

10.21

Unit

kg CO2 per gallon

Emission factor source

U.S. EPA Greenhouse Gas Emission Factors.

Comment

Distillate Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Dried Sewage Sludge

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Ethane

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Ethylene

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Fuel Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Fuel Oil Number 1

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Fuel Oil Number 2

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Fuel Oil Number 4

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Fuel Oil Number 5

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Fuel Oil Number 6

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Gas Coke

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Gas Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Gas Works Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

GCI Coal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

General Municipal Waste

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Grass

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Hardwood

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Heavy Gas Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Hydrogen

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Industrial Wastes

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Isobutane

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Isobutylene

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Jet Gasoline

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Jet Kerosene

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Kerosene

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Landfill Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Light Distillate

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Lignite Coal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Liquefied Natural Gas (LNG)

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Liquefied Petroleum Gas (LPG)

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Liquid Biofuel

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Lubricants

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Marine Fuel Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Marine Gas Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Metallurgical Coal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Methane

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Motor Gasoline

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Naphtha

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Natural Gas

Emission factor

53.06

Unit

kg CO2 per million Btu

Emission factor source

U.S. EPA Greenhouse Gas Emission Factors.

Comment

Natural Gas Liquids (NGL)

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Natural Gasoline

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Non-Biomass Municipal Waste

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Non-Biomass Waste

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Oil Sands

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Oil Shale

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Orimulsion

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Other Petroleum Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Paraffin Waxes

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Patent Fuel

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

PCI Coal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Peat

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Pentanes Plus

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Petrochemical Feedstocks

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Petrol

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Petroleum Coke

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Petroleum Products

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Pitch

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Plastics

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Primary Solid Biomass

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Propane Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Propane Liquid

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Propylene

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Refinery Feedstocks

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Refinery Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Refinery Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Residual Fuel Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Road Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

SBP

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Shale Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Sludge Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Softwood

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Solid Biomass Waste

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Special Naphtha

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Still Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Straw

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Subbituminous Coal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Sulphite Lyes

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Tar

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Tar Sands

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Thermal Coal

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Thermal Coal Commercial

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Thermal Coal Domestic

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Thermal Coal Industrial

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Tires

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Town Gas

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Unfinished Oils

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Vegetable Oil

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Waste Oils

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Waste Paper and Card

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Waste Plastics

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Waste Tires

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

White Spirit

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Wood

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Wood Chips

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Wood Logs

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Wood Pellets

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Wood Waste

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

Other

Emission factor

<Field Hidden>

Unit

<Field Hidden>

Emission factor source

<Field Hidden>

Comment

<Field Hidden>

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.

Basis for applying a low-carbon emission factor

Power Purchase Agreement (PPA) with energy attribute certificates

Low-carbon technology type

Other low-carbon technology, please specify (Geothermal)

MWh consumed associated with low-carbon electricity, heat, steam or cooling

55664.2

Emission factor (in units of metric tons CO₂e per MWh)

0.091

Comment

This is entirely from our facility in Cavite, Philippines that started receiving electricity only from renewable geothermal sources on January 01, 2017.

Basis for applying a low-carbon emission factor

Contract with suppliers or utilities (e.g. green tariff), not supported by energy attribute certificates

Low-carbon technology type

Hydropower

MWh consumed associated with low-carbon electricity, heat, steam or cooling

1021.65

Emission factor (in units of metric tons CO₂e per MWh)

0.024

Comment

Basis for applying a low-carbon emission factor

Contract with suppliers or utilities (e.g. green tariff), not supported by energy attribute certificates

Low-carbon technology type

Solar PV

MWh consumed associated with low-carbon electricity, heat, steam or cooling

11238.16

Emission factor (in units of metric tons CO₂e per MWh)

0.048

Comment

Basis for applying a low-carbon emission factor

Contract with suppliers or utilities (e.g. green tariff), not supported by energy attribute certificates

Low-carbon technology type

Wind

MWh consumed associated with low-carbon electricity, heat, steam or cooling

21454.69

Emission factor (in units of metric tons CO₂e per MWh)

0.011

Comment

Basis for applying a low-carbon emission factor

Contract with suppliers or utilities (e.g. green tariff), not supported by energy attribute certificates

Low-carbon technology type

Biomass (including biogas)

MWh consumed associated with low-carbon electricity, heat, steam or cooling

2043.3

Emission factor (in units of metric tons CO₂e per MWh)

0.23

Comment

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	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, but we are actively considering verifying within the next two years

C11. Carbon pricing

C11.1

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

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

C11.2

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

No

C11.3

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

No, 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

Yes, other partners in the value chain

C12.1b

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

Type of engagement

Education/information sharing

Details of engagement

Run an engagement campaign to education customers about your climate change performance and strategy

Size of engagement

50

% Scope 3 emissions as reported in C6.5

0

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

Maxim frequently completes detailed customer and investor surveys, several large customers and investors require this information to be provided annually.

Impact of engagement, including measures of success

Submission of all requested information which usually includes all environmental and sustainability metrics, safety statistics and enforcement results and history.

C12.1c

(C12.1c) Give details of your climate-related engagement strategy with other partners in the value chain.

Completion of surveys for customers and investors.

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

Semiconductor Industry Association (SIA).

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

The U.S. semiconductor industry, one of the country's top export sectors, is responsible for a fraction of one percent of U.S. greenhouse gas (GHG) emissions, according to the EPA's GHG Reporting Program data. Most of the industry's emissions are associated with the use of fluorinated gases (F-gases) used in complex manufacturing processes, without which advanced semiconductor manufacturing is not technically feasible. Although the industry contributes only a very small amount of GHG emissions, SIA and its members have been engaged in ongoing efforts to reduce these emissions. •Under a Memorandum of Understanding (MOU) with EPA, SIA members voluntarily reported on their emissions of PFCs, a category of GHGs. Under this agreement, SIA members reduced their collective absolute US emissions of F-gases by more than 35% since 1995; and down 50% from their peak in 1999. •SIA and its members have participated in the efforts of the World Semiconductor Council (WSC) to reduce emissions of PFCs. The global industry committed to a 10 percent reduction from a baseline year, and in 2011 the industry announced that it far surpassed this goal and achieved a reduction of 32 percent in absolute emissions. To build on this success, the global industry is implementing a new 10-year reduction goal.

How have you, or are you attempting to, influence the position?

We are consistent with the position and support it.

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?

All direct and indirect activities are consistent with SIA's position on climate change. SIA represents Maxim Integrated and other U.S. semiconductor companies in regards to federal and state policy positions and initiatives on GHG emissions and climate change strategy. Processes include senior management and EHS management engagement with SIA leadership and technical members. As a member of SIA with Maxim leadership as one of the Board of Directors, Maxim has influence in determining SIA's approach and strategy pertaining to GHG issues.

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

No publications with information about our response to climate-related issues and GHG emissions performance

Status

<Field Hidden>

Attach the document

<Field Hidden>

Content elements

<Field Hidden>

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.

Last year's CDP Report (CY2016) was published on Maxim's public website. The 2017 CDP will also be added for public viewing.

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	Corporate Director of Environmental Health and Safety.	Environment/Sustainability manager