

C0. Introduction

C0.1

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

This CDP Report contains forward-looking statements regarding Marvell's ESG policies, procedures and future actions related thereto within the meaning of the federal securities laws that involve risks and uncertainties. Words such as "anticipates," "expects," "intends," "plans," "projects," "believes," "seeks," "estimates," "can," "may," "will," "would" and similar expressions identify such forward-looking statements. These statements are not guarantees of results and should not be considered as an indication of future activity or future performance. Actual events or results may differ materially from those described in this CDP Report due to a number of risks and uncertainties, including, but not limited to: the impact of the COVID-19 pandemic on Marvell and its suppliers, the ability of Marvell to implement its plans with respect to ESG matters in the time frame anticipated or at all; Marvell's reliance on independent foundries and subcontractors for the manufacture, assembly and testing of its products; the impacts and costs associated with changes in ESG and similar regulations; Marvell's ability to monitor and accurately report on ESG matters, and other risks detailed in Marvell's SEC filings from time to time. Marvell undertakes no obligation to revise or publicly update any forward-looking statements.

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	February 1 2020	January 31 2021	No	<Not Applicable>

C0.3

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

China
Germany
India
Israel
Singapore
Taiwan, Greater China
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
Board-level committee	The Nominating and Governance Committee of the Board of Directors of Marvell is responsible for matters relating to the organization and membership of the Board, and for other issues relating to the Company's sound and proper corporate governance, including the publication and administration of the Company's Corporate Governance Guidelines and Practices including ESG issues. Climate is a material ESG topic that is discussed with the Board in our ESG updates. The Board is responsible for approving Marvell's climate strategy. The Nominating and Governance Committee is responsible for overseeing disclosures regarding corporate social responsibility and sustainability matters, monitoring and evaluating the Corporate Guidelines and other corporate policies to ensure that all governance standards are being met.

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 Reviewing and guiding major plans of action Reviewing and guiding risk management policies Reviewing and guiding annual budgets Reviewing and guiding business plans Overseeing major capital expenditures, acquisitions and divestitures	<Not Applicable>	The Nominating and Governance Committee is responsible for overseeing strategy and disclosures regarding corporate social responsibility and sustainability matters, monitoring and evaluating the Corporate Guidelines and other corporate policies to ensure that all governance standards are being met. Climate change is a material ESG topic that is discussed with the Board in our ESG updates. The Board is responsible for approving Marvell's climate change strategy. The Nominating and Governance Committee may be assisted by the Audit Committee, whose duties include, among other things, oversight of the quality and integrity of reporting practices of the company, including the review of financial information as it relates to climate. Although the Audit Committee's functions are separate from that of the Nominating and Governance Committee and are to ensure the quality of financial statements and accounting, auditing, and reporting practices of the company, the Audit Committee may assist in providing information to help with the decision-making process.

C1.2

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

Name of the position(s) and/or committee(s)	Reporting line	Responsibility	Coverage of responsibility	Frequency of reporting to the board on climate-related issues
Chief Operating Officer (COO)	<Not Applicable>	Both assessing and managing 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 COO serves on the Environment, Social and Governance (ESG) Committee, which provides executive oversight and support of Marvell's strategy, goals and initiatives to address ESG issues including those related to tracking performance, investments, and stakeholder engagements. The committee meets bimonthly at the minimum, or more frequently as needed. As a member of this committee, the COO will consider and bring to the attention of the Board of Directors, the Board of Directors' Committees, and senior leadership, as appropriate, current and emerging ESG matters, such as climate change, that may affect the business, operations, performance or public image of the Company or are otherwise pertinent to the Company and its stakeholders, and to make recommendations on how the Company's policies, practices and disclosures can adjust to or address current trends. The COO may also oversee implementation of relevant programs, systems and processes to monitor ESG matters, as deemed necessary and appropriate and receives reports on the status of ESG programs. Given his position on the ESG Committee, serving as executive champion of the Environment Working Group and expertise in managing the day-to-day topics of operations, the COO has been assigned overall responsibility of climate strategy and climate-related issues.

Risks are managed through Marvell's internal processes such as the Business Continuity Process (BCP). This analysis is performed as part of our day-to-day business processes. The COO oversees the execution of the Business Continuity Process, including analysis of current and potential disasters. If a disaster were to occur, he would report the key climate change incidents, mitigation, and actions taken to the CEO as necessary. Information regarding a disaster would be reported to Security by employees. Security will then notify the Crises Management Team of the disaster as part of the Business Continuity Process. The Business Continuity team will then decide if the information regarding a disaster reported meets established criteria for declaring a company disaster. In the event of a company disaster the COO will make decisions for a resolution based on the assessment and options presented by the Crises Management team.

Some other initiatives that the COO led included site reduction and divestments of facilities and continued relocation of data centers. These actions were taken with the goal of optimizing Marvell Portfolio.

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	No, not currently but we plan to introduce them in the next two years	

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	Considering the pace of technological change, short-term in the Hi-Tech sector is usually under one year.
Medium-term	1	3	Medium-term is usually between one and three years
Long-term	3	5	Long-term is usually above three years

C2.1b

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

Marvell assesses climate and water-related risks as part of the ERM process by identifying a risk's potential impact. The scale of impact severity is defined as "low risk/opportunity, but not substantive" which ranges < \$0-\$30 million as an impact, "medium risk/opportunity, but not substantive" which ranges impacts that are less than \$30 to \$100 million, and "high risk/opportunity, substantive" which ranges from any risk/opportunity impact of greater than \$100 million. As such, Marvell defines a substantive financial impact from any risk or opportunity that would impact the company by dollar amounts that are above \$100 million.

Marvell's Executive Leadership Team (ELT) identifies key risks in each of the categories listed below and determines the absolute impact and likelihood:

- Financial
- Operational
- Strategic
- Sales
- Engineering
- Information
- Organizational
- Legal / Regulatory

The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. In developing and executing mitigation plans for each of these significant risks and areas of focus, the team will also evaluate publicly disclosed risks (such as the 10-K) and conduct discussions with relevant stakeholders. Marvell updates the assessment and discusses with the board of directors annually.

C2.2

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

Value chain stage(s) covered

Direct operations
Upstream
Downstream

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Marvell's Executive Leadership Team (ELT) identifies key risks in each of the categories listed below and determines the absolute impact and likelihood: • Financial • Operational • Strategic • Sales • Engineering • Information • Organizational • Legal / Regulatory The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. In developing and executing mitigation plans for each of these significant risks and areas of focus, the team will also evaluate publicly disclosed risks (such as the 10-K) and conduct discussions with relevant stakeholders. Marvell updates the assessment and discusses with the board of directors annually. As an example of how we utilize this process to identify physical risks, we have identified our Santa Clara facility to be at risk of flooding. To mitigate this risk, we have developed a crisis management plan and actively monitor the weather.

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	Marvell's Executive Leadership Team (ELT) identifies key risks in each of listed categories and determines the absolute impact and likelihood. The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Current regulation such as implementing carbon-pricing mechanisms to reduce GHG emissions, when applicable, is under the category of Legal/Regulatory so it's always included in this process. Country or local level carbon tax regulations pose a potential risk to Marvell, where we could potentially be exposed to increased indirect operating costs if these regulations were not monitored and mitigated. Mitigation plans are developed and executed for each of these significant risks and areas of focus. Periodically, Marvell updates the assessment and discuss with the board of directors.
Emerging regulation	Relevant, always included	Marvell's Executive Leadership Team (ELT) identifies key risks in each of listed categories and determines the absolute impact and likelihood. The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Emerging regulations such as an increase in climate-related disclosure requirements, when applicable, is under the category of Legal/Regulatory so it's always included in this process. Growing requirements for disclosure pose a potential risk to Marvell, where we could potentially be exposed to increased liability if we did not meet the requirements. Mitigation plans are developed and executed for each of these significant risks and areas of focus. Periodically, Marvell updates the assessment and discuss with the board of directors.
Technology	Relevant, always included	Marvell's Executive Leadership Team (ELT) identifies key risks in each of listed categories and determines the absolute impact and likelihood. The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Technology such as our facilities systems (e.g. HVAC, lighting, CMMS), when applicable, is under the category of Operational so it's always included in this process. Not shifting to efficient technologies could pose a risk to Marvell by leading to high operational costs. Mitigation plans are developed and executed for each of these significant risks and areas of focus. Periodically, Marvell updates the assessment and discuss with the board of directors.
Legal	Relevant, always included	Marvell's Executive Leadership Team (ELT) identifies key risks in each of listed categories and determines the absolute impact and likelihood. The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Legal is under the category of Legal/Regulatory so it's always included in this process. Mitigation plans are developed and executed for each of these significant risks and areas of focus. Periodically, Marvell updates the assessment and discuss with the board of directors.
Market	Relevant, always included	Marvell's Executive Leadership Team (ELT) identifies key risks in each of listed categories and determines the absolute impact and likelihood. The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Market risks such as changing customer preferences for more energy efficient products, when applicable, is under the category of Strategic so it's always included in this process. A shift in customer preferences towards energy efficient technologies could pose a risk to Marvell where the company could experience a loss in market share if we did not continually implement best practices in developing dynamic technologies that are highly efficient. Mitigation plans are developed and executed for each of these significant risks and areas of focus. Periodically, Marvell updates the assessment and discuss with the board of directors.
Reputation	Relevant, always included	Marvell's Executive Leadership Team (ELT) identifies key risks in each of listed categories and determines the absolute impact and likelihood. The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Reputation risks such as changing community perceptions due to climate change, when applicable is under the category of Strategic so it's always included in this process. If Marvell did not maintain its reputation in developing energy efficient products, we could potentially see a decrease in reputation, which could lead to a decrease in revenue from a loss of customers. Mitigation plans are developed and executed for each of these significant risks and areas of focus. Periodically, Marvell updates the assessment and discuss with the board of directors.
Acute physical	Relevant, always included	Marvell's Executive Leadership Team (ELT) identifies key risks in each of listed categories and determines the absolute impact and likelihood. The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Acute physical risks such as typhoons or floods, when applicable, is under the category of Operational so it's always included in this process. Sudden floods could pose a risk to Marvell where we could potentially see decreased revenue due to a loss of operations in the instance where we did not mitigate impacts on our operations. Mitigation plans are developed and executed for each of these significant risks and areas of focus. Periodically, Marvell updates the assessment and discuss with the board of directors.
Chronic physical	Relevant, always included	Marvell's Executive Leadership Team (ELT) identifies key risks in each of listed categories and determines the absolute impact and likelihood. The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Chronic physical risks such as high temperatures, when applicable, is under the category of Operational so it's always included in this process. Rising mean temperatures poses a risk on Marvell's operations where we could experience an increase in operating costs due to higher energy demands for office cooling if we did not mitigate for any potential impacts. Mitigation plans are developed and executed for each of these significant risks and areas of focus. Periodically, Marvell updates the assessment and discuss with the board of directors.

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	Marvell does not consider itself to be exposed to climate-related risks with the potential to have a substantive financial or strategic impact to business because the identified risk does not amount to our definition of a risk threshold. Marvell defines a substantive financial impact from any risk or opportunity as an impact to the company by dollar amounts above \$100 million. Of all sites of direct operations, only the Marvell Santa Clara site is located in an area of potential geographical risk; moreover, the risk level for this is considered to be low. Marvell has identified this risk by evaluating sites through government resources such as flood maps. The Marvell Santa Clara site is adjacent to San Tomas Aquinas Creek to the east, and the Calabazas Creek to the west. It is classified as "Zone X" by the Santa Clara Valley Water District, and FEMA. "Zone X" is defined as: Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year floods. A 100-year flood is defined as: the flood elevation that has a 1% chance of being equaled or exceeded each year. A 500-year flood is defined as: the flood elevation that has a .2% chance of being equaled or exceeded each year. During a 100 year or a 500-year flood event, the water is expected to remain inside the creek beds. The main risk for flooding at Marvell Park would be during a levee failure, or a mechanical failure at a nearby pump station. In either case, it is reasonable to expect that Marvell Park could be covered with roughly one to three feet of flowing water and would remain flooded for 1-2 days. A flood event of this nature may cause physical damage of property and equipment. In the possible event of an imminent flood, the following activities will be delegated by the FERP leaders in order to reduce any flood-related damages and down time by advance planning. • Assign security and surveillance • Sandbag Building 4 exits and windows before leaving property • Keep fire protection systems operational during a flood • Unplug all ground-level electrical appliances • Ensure that a salvage crew is on alert and prepared to act • Send out a mass email to employees, if present, asking them to place computers and other electronic equipment on top of their desks • Move electronic equipment, important records, etc. located on the first floor of each building to second floor areas or offsite

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	Evaluation in progress	Marvell does not consider having climate related opportunities currently because we are evaluating our sites' utility data from past years to current years in order to determine opportunities. Our Environment Working Group and ESG Committee are developing and refining our climate strategy, which we plan to finalize in the next year. We plan to conduct climate scenario analysis to better understand the potential impacts of climate on our business. This analysis will provide more detailed insights on the key risks and opportunities that climate change poses to the business. To find opportunities we'll also be comparing utility data for sites from past years to current years to see which sites we can reduce/improve usage. Additionally, with the shift towards working from home, Marvell is in the process of assessing different long-term working models which may create climate-related opportunities for its employees and/or its business.

C3. Business Strategy

C3.1

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

Yes

C3.1b

(C3.1b) Does your organization intend to publish a low-carbon transition plan in the next two years?

	Intention to publish a low-carbon transition plan	Intention to include the transition plan as a scheduled resolution item at Annual General Meetings (AGMs)	Comment
Row 1	Yes, in the next two years	No, we do not intend to include it as a scheduled AGM resolution item	Marvell's ESG Working Groups and ESG Committee provides different levels of cross-functional oversight on the company's strategies, goals, and approaches to managing ESG topics such as climate and water. The ESG Committee will also consider and inform the Board of Directors, the Board of Directors' Committees, and senior leadership, as appropriate, on current and emerging ESG matters that may affect the business, operations, performance or public image of the Company or are otherwise pertinent to the Company and its stakeholders, and will make recommendations on how the Company's policies, practices and disclosures can adjust to or address current trends. Our Environment Working Group and ESG Committee are developing and refining our climate strategy, which we plan to finalize in the next year. We plan to conduct climate scenario analysis to better understand the potential impacts of climate on our business. This analysis will provide more detailed insights on the key risks and opportunities that climate change poses to the business. As the work of the ESG Working Groups and Committee evolve, conversations around low-carbon transition plans are expected to progress as well. Additionally, with the shift towards working from home, Marvell is in the process of assessing different long-term working models which may create climate-related opportunities for its employees and/or its business.

C3.2

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

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

C3.2b

(C3.2b) Why does your organization not use climate-related scenario analysis to inform its strategy?

Marvell does not use a climate-related scenario analysis to inform the strategy as we have not yet encountered any climate-related risk that would require us to perform such analyses and incorporate it as part of our normal business practice. Marvell does not consider itself to be exposed to climate-related risks with the potential to have a substantive financial or strategic impact to business because only the Marvell Santa Clara site has been identified of having any risk and the risk is low. Marvell has incorporated and implemented contingency plans in critical processes in Operations such as: supply chain sourcing, data protection and facility emergency prevention and response.

Marvell's Executive Leadership Team (ELT) identifies key risks in each of below listed categories and determines the absolute impact and likelihood:

- Financial
- Operational
- Strategic
- Sales
- Engineering
- Information
- Organizational
- Legal / Regulatory

The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Mitigation plans are developed and executed for each of these significant risks and areas of focus. Periodically, Marvell updates the assessment and discuss with the board of directors.

Additionally, Marvell's ESG Committee provides, among other things, executive oversight and support of Marvell's strategy, goals and incentives to address ESG issues. The Committee will assist in setting the company's general strategy with respect to ESG matters such as climate and water and will consider and recommend, policies, practices, and disclosures that conform with the strategy. It will also consider and inform the Board of Directors, the Board of Directors' Committees, and senior leadership, as appropriate, on current and emerging ESG matters that may affect the business, operations, performance or public image of the Company or are otherwise pertinent to the Company and its stakeholders, and will make recommendations on how the Company's policies, practices and disclosures can adjust to or address current trends. In implementing a climate-related analysis, the company anticipates increased conversations and collaborations between the ESG Committee and Executive Leadership Team as we analyze the potential impacts of climate on our business.

C3.3

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

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	No	Climate-related risks and opportunities have not influenced our strategy with regards to products and services because Marvell does not manufacture its own products. Processors are manufactured utilizing the Company's standard fabrication partners. We developed and implemented contingency plans in critical processes in Operations such as: supply chain sourcing, data protection and facility emergency prevention and response. The Executive Leadership Team (ELT) also identifies potential key risks in each of the categories listed below and determines the absolute impact and likelihood: • Financial • Operational • Strategic • Sales • Engineering • Information • Organizational • Legal / Regulatory All risks identified have not caused us to re-evaluate our current strategy in this business area. Marvell works to develop products that enable energy efficiency for our customers. Though these objectives have not influenced our strategy to a point that can be considered substantive, Marvell is driven to design our products to minimize power consumption
Supply chain and/or value chain	No	Climate-related risks and opportunities have not influenced strategy in the 'supply chain and/or value chain' because Marvell has developed and implemented contingency plans in critical processes in Operations such as: supply chain sourcing, data protection and facility emergency prevention. The Executive Leadership Team (ELT) also identifies potential key risks in each of the categories listed below and determines the absolute impact and likelihood: • Financial • Operational • Strategic • Sales • Engineering • Information • Organizational • Legal / Regulatory All risks identified have not caused us to re-evaluate our current strategy in this business area. Risks such as floods, hurricanes, typhoons, and earthquakes in Asia supplier sites have not impacted our supply chain and/or value chain, and have been mitigated through continual assessment and management of value chain partners to ensure business continuity, with a focus to limit disruptions in operations. This allows Marvell flexibility in managing capacity as volume production increases or in cases when a supplier is impacted by disasters due to climate change or other emergencies.
Investment in R&D	No	Climate-related risks and opportunities have not yet influenced our strategy in 'Investment R&D' as we have not yet encountered any risk that would have a substantive impact on this area. Also, the Executive Leadership Team (ELT) helps us to identify potential key risks in each of the below-listed categories and determines the absolute impact and likelihood: • Financial • Operational • Strategic • Sales • Engineering • Information • Organizational • Legal / Regulatory Thus, all risk identified has not caused us to re-evaluate our current strategy. We recognize that our portfolio of data infrastructure semiconductor technology has the potential to contribute to a low-carbon economy. As we work towards energy efficiency and reduced emissions, our R&D investments may be influenced by incentivizing the development of energy efficient projects and products.
Operations	Yes	Climate-related risks and opportunities have impacted facilities strategy for operations, and impacted the strategy in the short, medium, and long-term time horizons. The Marvell Santa Clara Campus is adjacent to San Tomas Aquinas Creek to the east, and the Calabazas Creek to the west. It is classified as "Zone X" by the Santa Clara Valley Water District, and FEMA. "Zone X" is defined as: Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year floods. A 100-year flood is defined as: the flood elevation that has a 1% chance of being equaled or exceeded each year. A 500-year flood is defined as: the flood elevation that has a .2% chance of being equaled or exceeded each year. During a 100 year or a 500-year flood event, the water is expected to remain inside the creek beds. The main risk for flooding at Marvell Park would be during a levee failure, or a mechanical failure at a nearby pump station. In either case, it is reasonable to expect that Marvell Park could be covered with roughly one to three feet of flowing water and would remain flooded for 1-2 days. As a substantial strategic decision made, Marvell has developed an emergency response plan for Marvell Park in the event that a flood were to occur. This Flood Emergency Response Plan is intended to reduce any flood-related damages and down time by planning in advance. When a flood is imminent, the following activities will be delegated by the FERP leaders: • Assign security and surveillance • Sandbag Building 4 exits and windows before leaving property • Keep fire protection systems operational during a flood • Unplug all ground-level electrical appliances • Ensure that a salvage crew is on alert and prepared to act • Send out a mass email to employees, if present, asking them to place computers and other electronic equipment on top of their desks • Move electronic equipment, important records, etc. located on the first floor of each building to second floor areas or offsite If a flood has occurred -- once the water recedes, the following activities will be delegated by the FERP leaders: • Assess damages • Test fire protection system • Contact electrical service contractor(s) and secure service • Coordinate salvage/restoration contractor(s) and secure service

C3.4

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

	Financial planning elements that have been influenced	Description of influence
Row 1	None of the above	Climate-related risks and opportunities have not impacted the financial planning process this year. Marvell's Executive Leadership Team (ELT) identifies key risks in each of categories listed below and determines the absolute impact and likelihood: • Financial • Operational • Strategic • Sales • Engineering • Information • Organizational • Legal / Regulatory The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. Mitigation plans are developed and executed for each of these significant risks and areas of focus. As part of Marvell's business strategy with our supply chain, the company mitigate risks through continual assessment and management of value chain partners to ensure business continuity, with a focus to limit disruptions in operations. This allows Marvell flexibility in managing capacity as volume production increases or in cases when a supplier is impacted by disasters due to climate change or other emergencies. With our portfolio of data infrastructure semiconductor technology, we recognize that our business industry has the potential to contribute to a low-carbon economy. As we work towards energy efficiency and reduced emissions, our R&D investments may be influenced by incentivizing the development of energy efficient projects and products.

C3.4a

(C3.4a) 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	In 2021, Marvell completed acquisition of another technology company. As a fabless semiconductor company, we do not anticipate major manufacturing from direct operations but emissions may grow over time as the company's business expands. Marvell is continually updating our GHG inventory and is assessing opportunities for efficiencies within our operations.	Marvell plans to set a target by first increasing our understanding and data management for current and past inventories to better identify emission reduction opportunities and challenges within our operations. This includes developing a baseline GHG inventory that can be used to develop future targets. We plan to evaluate the feasibility and effectiveness of setting facility-level, corporate, or Science-based targets within the next two years as part of our ESG program. This timeline is dependent on our current and future actions to increase reporting and data management systems along with changes to our existing business.

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 CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	0	0
To be implemented*	0	0
Implementation commenced*	0	0
Implemented*	1	168.01
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

Low-carbon energy generation	Solar PV
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Estimated annual CO2e savings (metric tonnes CO2e)

168.01

Scope(s)

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

0

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

0

Payback period

No payback

Estimated lifetime of the initiative

Ongoing

Comment

Solar generation in Santa Clara that is used for charging electric vehicles. Because information on the monetary savings, investment required, and payback period are not available, we have inputted either "0" or "No payback."

C4.3c

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

Method	Comment
Other (Employee engagement requests)	Marvell is passionate about the impact it makes in ESG issues and as a socially responsible company is committed to educating its workforce about the enhanced importance of this mission. We have established an Environment Working Group of key leaders to enable identification and implementation of emissions reduction activities, among other areas of focus. We also have an employee-driven GoGreen group that draws in ideas from a wide range of individuals across the business. In addition, in 2020, Marvell organized its virtual Go Green Expo for companies around the world to showcase their amazing eco-friendly, innovative and sustainable products/services, ideas, and business solutions to Marvell's 5,400+ employees and contractors, and their families. Through continuous communication with our employees, whether it be through similar events or online communication platforms, Marvell is perceptive to the ideas generated by our workforce and may invest in emissions reduction activities from these interactions.

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 2018
Base year end
December 31 2018
Base year emissions (metric tons CO2e)
1821.37
Comment

Scope 2 (location-based)
Base year start
January 1 2018
Base year end
December 31 2018
Base year emissions (metric tons CO2e)
25083.7
Comment

Scope 2 (market-based)
Base year start
Base year end
Base year emissions (metric tons CO2e)
Comment

C5.2

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

Defra Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance, 2019

IPCC Guidelines for National Greenhouse Gas Inventories, 2006

The Climate Registry: General Reporting Protocol

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

US EPA Mandatory Greenhouse Gas Reporting Rule

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)
3447.04
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

19533.78

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

30427.82

Emissions calculation methodology

Quantified using Quantis Scope 3 Evaluator Tool.

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

0

Please explain

Capital goods

Evaluation status

Relevant, calculated

Metric tonnes CO2e

58969.61

Emissions calculation methodology

Quantified using Quantis Scope 3 Evaluator Tool.

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

0

Please explain

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

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

Marvell does not participate in any fuel or emissions activities outside those included in Scope 1 and Scope 2.

Upstream transportation and distribution

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

Marvell does not control any upstream activities, since all manufactured products are made by 3rd party companies. The contract manufacturers control all upstream operations, transportation, and distribution.

Waste generated in operations

Evaluation status

Relevant, calculated

Metric tonnes CO2e

49.04

Emissions calculation methodology

Non-Hazardous Landfill was estimated for all facilities it was not available based on square footage. Non-Hazardous Recycle and Hazardous Waste was reported for facilities which track these.

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

0

Please explain

Business travel

Evaluation status

Relevant, calculated

Metric tonnes CO2e

45.14

Emissions calculation methodology

Includes Avis and Budget Rental Car. The Travel Provider Methodology was used for emissions calculations.

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

100

Please explain

Employee commuting

Evaluation status

Relevant, calculated

Metric tonnes CO2e

8397.81

Emissions calculation methodology

Employee commute was estimated using an employee list with home and office locations. For 2020, this assumes employees worked 45 days pre-COVID and 218 days during COVID per year and made a single trip to work and a single trip home from work. Only the 550 "Essential workers" were accounted for as commuting during COVID. For international data, the total number of employees that commute was multiplied by the average mile per trip segment from the USA domestic results. This was selected due to challenges determining travel distances using the international addresses.

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

0

Please explain

Upstream 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

There are no upstream leased assets that are not part of Marvell's Scope 1 and Scope 2 calculations.

Downstream transportation and distribution

Evaluation status

Relevant, calculated

Metric tonnes CO2e

3763885

Emissions calculation methodology

Marvell was able to obtain all of their shipping records for 2020. The shipping records included the location of the Marvell warehouse (i.e., origin), the shipping location (i.e., destination), and the weight of the shipment. These parameters were used to calculate shipping emissions using emission factors from US EPA's Emission Factors For Greenhouse Gas Inventories (Table 8), which provides emission factors for transportation type in units of GHGs per ton-mile. The total distance traveled by each package was calculated using the Latitude and Longitude of the origin and destinations. This was lower than the previous year due to reduced shipping.

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

0

Please explain

Processing of sold products

Evaluation status

Relevant, calculated

Metric tonnes CO2e

1191

Emissions calculation methodology

Marvell's boards and ICs must pass through a welding machine before they can be installed. This process uses approximately 0.34 kwh per board and 0.002116 kwh per IC. These factors were multiplied by the total number of boards and ICs shipped during the reporting year. Emissions were then allocated to different regions where the products were processed using regional electricity emission factors. This was much higher than the previous year due to increased manufacturing and shipping.

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

0

Please explain

Use of sold products

Evaluation status

Relevant, calculated

Metric tonnes CO2e

7360855

Emissions calculation methodology

Marvell's average adapter board uses 19.75 watts of power and AntiguaUL (1053) integrated circuit system on chip uses 2.6 watts. The average board wattage was determined by averaging the "top" and "bottom" of all boards used, QLE2692 with 8.5 watts and LiquidIO (2360) with 31 watts. Assuming the processor is used 24 hours a day for 365 days per year (which may be a slight overestimate), we calculated GHGs using the GHG Protocol tools for energy/electricity use for one product over a one-year time frame. This was then multiplied by the number of products sold to get final values for the reporting year. The total electricity consumption associated with powering all of Marvell's sold products throughout the year was multiplied by regional electricity emission factors.

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

0

Please explain

End of life treatment 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

Marvell does not control the end of life treatment of our products because Marvell products are used in the User products built by the original equipment manufacturer who has end of life/usability disposal responsibility. This is out of the operational control of Marvell.

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

Marvell has no substantive leased downstream 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

Marvell is not a retailer and does not have franchises.

Investments

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Marvell is not a financial company, but rather has employees that help develop our products.

Other (upstream)

Evaluation status

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

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	0.0000077405
Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)	22981
Metric denominator	unit total revenue
Metric denominator: Unit total	2970000000
Scope 2 figure used	Please select
% change from previous year	
Direction of change	<Not Applicable>
Reason for change	

C7. Emissions breakdowns

C7.1

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

C7.1a

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

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	3056.26	IPCC Fifth Assessment Report (AR5 – 100 year)
CH4	5.3	IPCC Fifth Assessment Report (AR5 – 100 year)
N2O	3.01	IPCC Fifth Assessment Report (AR5 – 100 year)
HFCs	382.48	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	2209.94
China	173.98
India	23.31
Israel	981.7
Singapore	44.27
Taiwan, Greater China	0
Germany	13.83

C7.3

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

C7.3a

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

Business division	Scope 1 emissions (metric ton CO2e)
Owned Operations	1934.03
Leased Operations	1513.01

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
Marvell HQ	1772.2	37.411241	-121.981969
Cavium - Irvine	76.11	33.682059	-117.753979
Cavium - Marlborough	75.39	42.334319	-71.596319
US - NC - Morrisville	22.09	35.864276	-78.83532
US - AZ Chandler	13.68	33.279736	-111.808505
US - CO - Longmont	27.69	40.135547	-105.127442
De Ettlingen	13.83	48.94094	8.40763
Marvell - Shanghai	161.83	31.170243	121.590054
Marvell - Singapore	44.27	1.335613	103.887531
Marvell - Yokneam	93.35	31.5	34.75
Marvell - Israel (PTK)	888.35	32.10261	34.863928
Marvell - Taiwan (Taipei)	0	25.04776	121.53185
Marvell - Taiwan (Hsinchu)	0	24.80361	120.96861
Marvell - India - Pune	7.33	18.8671	73.9801
Marvell - India - Hyderabad	13.73	17.426957	78.452392
Marvell - India -Bangalore	2.25	12.97194	77.59369
Marvell - Nanjing	12.15	32.06167	118.77778
– Marvell- San Jose 2315	0.06	37.379229	-121.924066
– Marvell- San Jose 2343	81.72	37.379229	121.924066
– Marvell- San Jose 2345	12.76	37.379229	121.924066
Marvell- Hopewell Junction	33.05	39.75665	-75.56889
Marvell- Essex Junction	27.57	44.47998	-73.10104
Marvell- CA-Tasman	20.25	37.41115	-121.94308
Marvell-VT-Burlington	37.63	44.461958	-73.217645
Marvell-ID-Boise	9.75	43.602249	-116.190093

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	7111.81		33915.14	0
China	2773.28		4637.59	0
India	5007.07		6940.76	0
Singapore	255.39		667.15	0
Israel	3537.69		7151.18	0
Germany	129		368.68	0
Taiwan, Greater China	719.55		1342.94	0

C7.6

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

- By business division
- By facility

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)
Owned Operations	7278.77	
Leased Operations	12255.01	

C7.6b

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

Facility	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Marvell HQ	4699.15	
Cavium - Irvine	466.23	
Cavium - Marlborough	574.3	
US - NC - Morrisville	78.63	
US - AZ - Chandler	176.98	
US - CO - Longmont	48.13	
De Ettlingen	129	
Marvell - Shanghai	2579.61	
Marvell - Singapore	255.39	
Marvell - Yokneam	1694.4	
Marvell - Israel (PTK)	1843.28	
Marvell - Taiwan (Taipei)	664.24	
Marvell - Taiwan (Hsinchu)	55.31	
Marvell - India - Pune	3151.55	
Marvell - India - Hyderabad	835.55	
Marvell - India -Bangalore	1019.97	
Marvell - Nanjing	193.67	
– Marvell- San Jose 2315	294.71	
– Marvell- San Jose 2343	18.9	
– Marvell- San Jose 2345	311.58	
Marvell- Hopewell Junction	71.82	
Marvell-ID-Boise	88.49	
Marvell- CA-Tasman	80.19	
Marvell-VT-Burlington	16.67	
Marvell- Essex junction	183.98	

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	0	No change	0	The change in Scope 1 and 2 emissions did not change due to change in renewable energy consumption.
Other emissions reduction activities	0	No change	0	The change in Scope 1 and 2 emissions did not change due to other emission reduction activities.
Divestment		<Not Applicable>		
Acquisitions		<Not Applicable>		
Mergers		<Not Applicable>		
Change in output		<Not Applicable>		
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 0% but less than or equal to 5%

C8.2

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

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	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)	LHV (lower heating value)	0	15612.1	15612.1
Consumption of purchased or acquired electricity	<Not Applicable>	0	55023	55023
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	721	<Not Applicable>	721
Total energy consumption	<Not Applicable>	721	70635.1	71356.1

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	No
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

C8.2c

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

Fuels (excluding feedstocks)

Natural Gas

Heating value

LHV (lower heating value)

Total fuel MWh consumed by the organization

12025

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

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

Emission factor

53.06

Unit

kg CO2 per million Btu

Emissions factor source

U.S. EPA. Emission Factors for Greenhouse Gas Inventories. Last Modified: 9 March 2018. https://www.epa.gov/sites/production/files/2018-03/documents/emission-factors_mar_2018_0.pdf

Comment

Fuels (excluding feedstocks)

Diesel

Heating value

LHV (lower heating value)

Total fuel MWh consumed by the organization

308.19

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

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

Emission factor

10.21

Unit

kg CO2 per gallon

Emissions factor source

U.S. EPA. Emission Factors for Greenhouse Gas Inventories. Last Modified: 9 March 2018. https://www.epa.gov/sites/production/files/2018-03/documents/emission-factors_mar_2018_0.pdf

Comment

Fuels (excluding feedstocks)

Motor Gasoline

Heating value

LHV (lower heating value)

Total fuel MWh consumed by the organization

3278.8

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

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

Emission factor

8.78

Unit

kg CO2 per gallon

Emissions factor source

U.S. EPA. Emission Factors for Greenhouse Gas Inventories. Last Modified: 9 March 2018. https://www.epa.gov/sites/production/files/2018-03/documents/emission-factors_mar_2018_0.pdf

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	721	721	721	721
Heat	0	0	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	No third-party verification or assurance
Scope 2 (location-based or market-based)	No third-party verification or assurance
Scope 3	No third-party verification or assurance

C10.2

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

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

C11. Carbon pricing

C11.1

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

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

C11.2

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

No

C11.3

(C11.3) Does your organization use an internal price on carbon?
No, 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 suppliers
Yes, our customers
Yes, other partners in the value chain

C12.1a

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

Type of engagement
Compliance & onboarding

Details of engagement
Code of conduct featuring climate change KPIs

% of suppliers by number
100

% total procurement spend (direct and indirect)
100

% of supplier-related Scope 3 emissions as reported in C6.5
0

Rationale for the coverage of your engagement
All suppliers are required to comply with Marvell's Supplier Code of Conduct, which states "Suppliers and their subcontractors that are contracted to manufacture Marvell products or related components are expected to comply with the RBA Code of Conduct" The RBA Code of Conduct states "Energy Consumption and Greenhouse Gas Emissions Participants are to establish a corporate-wide greenhouse gas reduction goal. Energy consumption and all relevant Scopes 1 and 2 greenhouse gas emissions are to be tracked, documented, and publicly reported against the greenhouse gas reduction goal. Participants are to look for methods to improve energy efficiency and to minimize their energy consumption and greenhouse gas emissions." (http://www.responsiblebusiness.org/media/docs/RBACodeofConduct7.0_English.pdf). We actively engage with all suppliers to participate and comply with RBA requirements.

Impact of engagement, including measures of success
Marvell has helped to advance action on climate change throughout its supplier base by advancing the RBA Code of Conduct. We track supplier responses to the RBA Self-Assessment Questionnaire (SAQ), which includes a section on greenhouse gas emissions. We also track supplier RBA Validated Audit Program (VAP) scores. VAP tracks compliance with RBA Code of Conduct. We require all strategic suppliers to conduct an SAQ and encourage them to complete a VAP. Success is measured and met when we have all suppliers conduct an SAQ and VAP.

Comment

C12.1b

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

Type of engagement

Education/information sharing

Details of engagement

Share information about your products and relevant certification schemes (i.e. Energy STAR)

% of customers by number

100

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

1

Portfolio coverage (total or outstanding)

<Not Applicable>

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

We engage with our customers through the Responsibility Business Alliance (RBA), an organization of which Marvell is a member. RBA's responsibility is to assist companies in collecting information on their corporate activities and their supply chain activities. This responsibility is also part of Marvell's standard operations. The RBA environmental platform allows Marvell and its suppliers to share their initiatives, including corporate and social responsibility metrics, as well as environmental metrics, with its valued customers that request Marvell to submit completed questionnaires to the RBA. This involves discussion of Marvell's extensive compliance program aimed to meet various US and global regulations focused on minimizing impact to the environment and climate change. We also report on our climate change strategy and performance to all customers via our ESG website (<https://www.marvell.com/company/esg/climate-change.html>). We are proactively reaching out to our customers to engage them on climate change. In addition, we respond to direct customer requests regarding climate change and engage in calls with customers to discuss strategies to address climate change. Climate change may also be called out in customers' Supplier Codes of Conduct, which we sign and comply with. We also engage with customers on climate change via the EcoVadis platform, which we make available to any customer that requests it. We also engage customers on the EU directive for Substances of Concerned In articles for complex Products (SCIP) in order to make recycling of products safer and improve information about dangerous chemicals in products. This has an indirect effect on climate change.

Impact of engagement, including measures of success

Engagement with direct customers on environmental compliance requirements are prioritized to ensure that Marvell products meet and exceed industry and specific customer requirements. Marvell's RBA annual SAQ and environmental surveys are accessible to Marvell customers upon request, where Marvell's corporate and associated facilities information can be reviewed. The impact of these engagements in 2020 was that customers were able to review Marvell's management strategy and activities to reduce climate change impact, such as renewable energy program etc. In addition, RBA also requests information regarding waste and water. We track the number of customers who engage with us via RBA, Ecovadis, their own Supplier Codes of Conduct, and direct engagements. In January 2021, EU directive for Substances of Concerned In articles for complex Products (SCIP) took effect. This requirement mandates companies supplying articles / products containing substances of very high concerned (SVHC) on the candidates list in a concentration above 0.1% (w/w) to the EU market to upload a SCIP report to the EU website. A SCIP report identifies products that contains SVHC concentration of above 0.1% (w/w) and their specific location in a complex product. Marvell provides the product SCIP report to enable our customers to compile SCIP data for their end product that will allow them successfully to upload the end product SCIP report to the EU website.

C12.1d

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

Marvell is passionate about the impact it makes on ESG issues and as a socially responsible company is committed to educating its workforce about the enhanced importance of this mission. Marvell reaches out to its own employees (other partners in the value chain) through Marvell's internal Intranet that includes notes on how Marvell is working to be more sustainable and efficient in its own practices. In 2020, Marvell organized its virtual Go Green Expo for companies around the world to showcase their climate and/or environmentally friendly, innovative and sustainable products/services, ideas, and business solutions to Marvell's 5,400+ employees and contractors, and their families. Through continuous engagement with our employees, whether it be through similar events or online communication platforms, Marvell encourages its workforce to take action on climate change.

Prior to closure of our offices from the coronavirus pandemic, our employees were involved in our annual Earth Day activities. During the company's Earth Day activity in 2019, booths were set up that introduced and encouraged employees to ride bicycles going to and from work, explained the benefits of solar panel installations, and discussed how to reduce adding more trash to landfills. Organic produce samples were brought in and presented to those interested, encouraging employees to plant these samples to reduce water use on their homes. Marvell encourages employees to participate in the annual Bike to Work Day and offers a designated station on the edge of Marvell's property to give water to bikers.

Additional engagements with our employees include the availability of paper recycle bins in our facilities, encouragement of double-sided printing and e-reading options, swapping non-essential travel for video conferencing, and offering options for bike storage, ride-share, and carpool information. Our facilities also include the use of lighting that turns off automatically.

Marvell considers our contractors and general vendors important partners in the value chain as part of our commitment set by our Supplier Code of Conduct. The code outlines that we engage with them to ensure they are able to adhere to best practices in environmental protection, which includes climate change-related engagements.

Another important stakeholder group in Marvell's value chain is the investment community. We are actively engaging with our top investors on climate change. We seek to understand their disclosure and performance expectations of us to address climate change and we share our plans to respond to those expectations.

Other partners in Marvell's value chain include Component Manufacturers (suppliers to our suppliers) and Contract Manufacturers where we engage by using RoHS/REACH verification process to ensure that all suppliers are in compliance with RoHS/REACH standards. Our strategy for engagement with component manufacturers is based upon whether or not the component used being considered is 100% compliant with RoHS/REACH. Components that are compliant with RoHS/REACH will be prioritized over components that are not 100% compliant. Measure of success is determined by Marvell's approval for use of 100% compliant component. If the component does not meet 100% ROHS-REACH compliance, then Marvell will not consider using the non-compliant component and will require redevelopment or requalification of a new component to be used in Marvell product design.

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
Other

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

Semiconductors are a foundation of modern computers, information technology, and communications products, and our products are also ubiquitous in advanced manufacturing processes, transportation systems, health care devices, building controls, energy generation equipment, and other sectors of the economy. As a result, semiconductors are a key enabling technology to improve energy efficiency and reduce energy consumption throughout the economy. In short, semiconductors are a key part to addressing global climate change while also advancing economic growth.

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

Marvell's President and CEO sits on the board of the SIA. Marvell supports SIA's overall Environment, Health & Safety policies and initiatives.
<https://www.semiconductors.org/policies/environment-health-safety/>

C12.3e

(C12.3e) Provide details of the other engagement activities that you undertake.

As a member of the United Nations Global Compact (UNGC), Marvell supports the Ten Principles of the UNGC in the areas of Human Rights, Labor, Environment, and Anti-Corruption. We engage with both the UNGC and our stakeholders by sharing information regarding our progress of these topics through channels of communication such as our ESG website. In our communications, we disclose our key actions and performance data regarding climate change, energy efficiency, and value chain management.

Marvell is also a member of the Responsible Business Alliance (RBA) and completes the annual supplier reports on corporate, social, and environmental compliance and initiatives. RBA is an organization whose responsibility is to assist companies with collecting information on their corporate activities and their supply chain activities and works with regulatory agencies to better inform its members about required and voluntary reporting requirements and provide advice to regulators on industry concerns about existing or developing regulations. RBA's environmental platform allows Marvell and its suppliers to share their initiatives, including corporate and social responsibility metrics, as well as environmental metrics, with its valued customers.

Marvell also engages with external ratings and research firms who assess the company on our ESG performance. Climate change is usually a key topic within their methodology so we ensure our information is accurate in their systems.

Additionally, Marvell became a member of IPC, an association connecting electronics industries and American Society Quality (ASQ), a global industry knowledge network that links the best ideas, tools, and experts. ASQ has the reputation and reach to bring together the diverse quality champions who are transforming our world. Our engagement in these organizations include attending conferences and meetings to share best practices. Some of the points we discuss in order to reduce GHG emissions include packing materials (i.e. materials used, amount of materials used), shipping methods, and energy efficiency of manufacturing and energy efficiency of products. IPC often works with the EPA to address environmental issues associated with the manufacturing of electronics products. ASQ is a quality organization that believes that quality is inherently tied to social responsibility. ASQ was selected by the American National Standards Institute (ANSI) to administer and develop the U.S. position on a new international social responsibility standard.

Marvell also has employees that are members of the International Facilities Management Association, who attended meetings to learn how to reduce energy and water consumption.

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?

Marvell's ESG Working Groups provide cross-functional knowledge and decision-making to develop, deliver and report on Marvell's ESG efforts. Relevant topics covered by the Environment Working Group include climate, waste, and water. Each working group has an executive-level sponsor who sits on the ESG Committee and retains ultimate accountability for the Working Group's responsibilities; the group will provide bimonthly updates to the sponsor in advance of the committee meetings. As part of its duties, the working group will set strategies and goals and identify and deliver approaches to managing environmental topics such as climate and water. The cross-functionality of the working groups combine with the executive level of sponsorship adds a layer of checks and balances to ensure that all activities are consistent with Marvell's overall climate change strategy.

Additionally, Marvell's ESG Committee provides, among other things, executive oversight and support of Marvell's strategy, goals and incentives to address its ESG issues. The Committee will assist in setting the company's general strategy with respect to ESG matters such as climate and water and will consider and recommend, policies, practices, and disclosures that conform with the strategy. It will also consider and inform the Board of Directors, the Board of Directors' Committees, and senior leadership, as appropriate, on current and emerging ESG matters that may affect the business, operations, performance or public image of the Company or are otherwise pertinent to the Company and its stakeholders, and will make recommendations on how the Company's policies, practices and disclosures can adjust to or address current trends.

As a member of the Responsible Business Alliance (RBA), a dynamic industry association consisting of over 140 leading companies, Marvell commits to work with its suppliers to improve the front lines of the manufacturing process – the lives, rights and working environment of the people building electronic products we can't imagine our lives without. Through our membership with the RBA, we believe we can promote higher environmental, social and governance standards across the industry in partnership with our customers and peers and align our approach with industry-wide best practices. RBA members support the RBA Code of Conduct (RBA Code) that establishes standards for labor, health & safety, environmental practices, and ethics and management systems. Marvell is committed to adopting and implementing the RBA Code, internally at Marvell and externally with our supply chain partners. With a goal to create a responsible supply chain, Marvell aims to work alongside our supply chain to ensure our partners are aligned and in compliance with the RBA Code.

Marvell is committed to protecting the environment, and environmental responsibility is at the core of how we operate. Marvell is committed to conducting its business in a lawful and ethical manner, including engaging with suppliers that are committed to the principles set forth in the Marvell Supplier Code of Conduct ("Supplier Code"). Marvell's Supplier Code encourages suppliers to operate in full conformance with the laws, rules and regulations of the countries where they operate and to meet internationally recognized environmental, social and governance standards. Business and labor practices of our Suppliers and their employees, agents and subcontractors (collectively referred to as "Suppliers") must adhere to the standards of this Supplier Code when conducting business with or on behalf of Marvell. Suppliers are required to promptly inform Marvell when any situation develops that causes the Supplier to operate in violation of this Supplier Code. Compliance with this Code is required in addition to any other obligations in any agreement Suppliers may have with Marvell. Suppliers shall comply with applicable environmental laws and regulations; develop, implement and maintain environmentally responsible business practices; obtain and keep current all required environmental permits, and comply with any reporting requirements applicable to such permits; and implement systematic approaches to identifying, managing, reducing and disposing or recycling all hazardous waste.

C12.4

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

Publication
In voluntary communications

Status
Underway – previous year attached

Attach the document
Marvell Website.PNG

Page/Section reference
1

Content elements
Governance
Strategy
Risks & opportunities
Emissions figures
Emission targets
Other metrics

Comment
<https://www.marvell.com/company/esg/climate-change.html>

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	COO - Chief Operations Officer	Chief Operating Officer (COO)

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	

SC0.2

(SC0.2) Do you have an ISIN for your company that you would be willing to share with CDP?
No

SC1.1

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

Requesting member

Alphabet, Inc.

Scope of emissions

Scope 1

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

49

Uncertainty (±%)

Major sources of emissions

Verified

Please select

Allocation method

Please select

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

Requesting member

Alphabet, Inc.

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

280

Uncertainty (±%)

Major sources of emissions

Verified

Please select

Allocation method

Please select

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

Requesting member

Alphabet, Inc.

Scope of emissions

Scope 3

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

1392

Uncertainty (±%)

Major sources of emissions

Verified

Please select

Allocation method

Please select

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

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?

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?

SC4.1

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

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, I will submit the Supply Chain questions now

Please confirm below

I have read and accept the applicable Terms