# **RAMBUS - Climate Change 2023**



#### C0. Introduction

#### C<sub>0.1</sub>

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

Rambus provides industry-leading chips and silicon IP that make data faster and safer. With more than 30 years of advanced semiconductor experience, Rambus is a pioneer in high-performance memory subsystems that solve the bottleneck between memory and processing for data-intensive systems. Whether in the cloud, at the edge or in your hand, real-time and immersive applications depend on data throughput and integrity. Our products and innovations deliver increased bandwidth, capacity and security required to meet the world's data needs and drive ever-greater end-user experience.

#### C0.2

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

Reporting year

Start date

January 1 2022

End date

December 31 2022

Indicate if you are providing emissions data for past reporting years

No

Select the number of past reporting years you will be providing Scope 1 emissions data for <Not Applicable>

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

Select the number of past reporting years you will be providing Scope 3 emissions data for <Not Applicable>

### C0.3

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

Bulgaria

Canada

Finland France

India

Netherlands

Republic of Korea

Taiwan, 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

## C0.8

Indicate whether you are able to provide a unique identifier for your organization

Provide your unique identifier

## C1. Governance

## C1.1

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

Yes

## C1.1a

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

Position of individual or committee	Responsibilities for climate-related issues
Board-level committee	The Corporate Governance / Nominating Committee (CGNC) reviews Rambus's CSR and ESG policies, programs, initiatives, and reports.

## C1.1b

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

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated		Please explain
Scheduled – all meetings	Reviewing and guiding annual budgets Overseeing and guiding employee incentives Reviewing and guiding strategy Overseeing the setting of corporate targets Monitoring progress towards corporate targets Reviewing and guiding the risk management process	Applicable >	Climate-related issues are a regularly scheduled agenda item at the CGNC meeting at least annually. Rambus's Board of Directors is responsible for overseeing our ESG practices, including climate-related issues. The Board's CGNC reviews our ESG policies, programs, initiatives and progress at least annually and makes recommendations to the full Board of Directors regarding Rambus's ESG policies and practices.

## C1.1d

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

	Board member(s) have competence on climate- related issues		for no board-level competence on	Explain why your organization does not have at least one board member with competence on climate-related issues and any plans to address board-level competence in the future
Row 1		The Board of Directors were asked to complete a self-assessment on a variety of specialized expertise including ESG/climate risks. The Directors can rate themselves at three levels, no skill/experience, moderately skilled/experienced or significantly skilled. Additional details are requested to further substantiate the Directors' qualifications if significantly skilled is selected for any specialized expertise. The Board skills matrix will be reviewed annually by the CGNC.	<not applicable=""></not>	<not applicable=""></not>

## C1.2

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

#### Position or committee

Chief Executive Officer (CEO)

#### Climate-related responsibilities of this position

Integrating climate-related issues into the strategy

Monitoring progress against climate-related corporate targets

Assessing climate-related risks and opportunities

#### Coverage of responsibilities

<Not Applicable>

#### Reporting line

Reports to the board directly

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

Annually

#### Please explain

The CEO and CEO's Direct Staff, along with the Corporate Governance / Nominating Committee, have overall responsibility for Rambus's ESG and CSR programs which include assessing climate-related risks and opportunities and monitoring progress against targets once set. These personnel are responsible for receiving information from the ESG council, integrating relevant information into the strategy and relaying ESG-related information to the Board.

#### Position or committee

Other, please specify (ESG Council)

## Climate-related responsibilities of this position

Managing annual budgets for climate mitigation activities

Providing climate-related employee incentives

Setting climate-related corporate targets

Assessing climate-related risks and opportunities

Managing climate-related risks and opportunities

#### Coverage of responsibilities

<Not Applicable>

#### Reporting line

CEO reporting line

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

Annually

#### Please explain

The ESG Council consists of the SVP and General Counsel, SVP of Human Resources (HR), SVP of Global Operations, VP Chief of Staff, and a cross-departmental Advisory Council which includes leadership members from Legal, Facilities/Global Operations and Marketing. Members of the ESG Council meet at least twice annually and their responsibilities include reviewing and approving policies, strategies, climate-related targets and funding activities associated with implementing aspects of our ESG and CSR program. The ESG Council is also responsible for monitoring internal and external trends to identify potential risks that could have a material impact on our ESG program.

### Position or committee

Other, please specify (CSR/ESG Operational Working Group)

Referred to within Rambus as CSR/ESG Committee

## Climate-related responsibilities of this position

Monitoring progress against climate-related corporate targets

Assessing climate-related risks and opportunities

Managing climate-related risks and opportunities

Other, please specify (Establishing, managing, and implementing programs based on the Rambus ESG Management System Framework)

### Coverage of responsibilities

<Not Applicable>

#### Reporting line

Other, please specify (ESG Council)

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

Annually

### Please explain

The CSR/ESG Committee consists of members from the Legal, Facilities/Global Operations, Marketing, HR and Supply Chain departments. This committee manages and implements the ESG/CSR programs, policies and initiatives, including those related to climate change. This group meets at least twice annually to provide accurate, cogent and concise reporting on our activities. This committee reports to the ESG Council.

## 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
F 1		We are in the process of determining a climate target and plan to introduce the target this year. After our target is established, we will evaluate options to introduce incentives for the management of climate-related issues including the attainment of targets.

#### 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	3	
Medium-term	3	10	
Long-term	10	30	

#### C2.1b

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

Rambus utilizes an Enterprise Risk Management protocol for the identification of material risks that may have a substantive financial or strategic impact on our business. We define material risks as risks that have a high likelihood of impacting Rambus's operations and financial performance. All material risk factors are reported in our 10-K annual filings.

#### 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

Annually

## Time horizon(s) covered

Short-term

Medium-term

Long-term

### **Description of process**

Rambus currently evaluates climate-related risks as a key component of our broader risk management frameworks which include ISO 9001 and Business Continuity Management System (BCMS). The Board of Directors meets regularly to receive reports from its committees, as well as from management with respect to areas of material risk to the company, including legal, operational, financial and strategic risks. Currently the Rambus ERM program does not explicitly include climate-related risks. Rather, climate risks are considered as an input when relevant and are integrated into the respective management systems.

Rambus follows the standard set forth in the ISO 9001 management system. Under the ISO 9001 system, business units identify risks that could impact their operations and climate-related issues are considered in this process when relevant. Risks are incorporated into the business unit's risk register, managed by the assigned risk owners, and evaluated periodically.

Through the BCMS framework, climate-related issues are considered as integral risk factors that could impact business continuity. Leaders in Operations, HR and Technology Partnerships and Corporate Development ensure business continuity is integrated into Rambus's business strategy and operations while also promoting continual improvement of the BCMS. A cross-functional working groups supports these leaders by reviewing internal and external issues on a regular basis, supporting the implementation of business continuity initiatives, and ensuring the effectiveness of the management systems.

In the coming years, Rambus plans to enhance the ERM program by incorporating climate-related risks into main pillars such as financial, market, brand, operational and compliance risks. We believe that the updated ERM program will allow us to further integrate climate-related risks in the organization and streamline the process of identifying, assessing and managing these risks.

## 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	Compliance with current regulation is always included in our risk assessment. Our business is headquartered in the state of California where environmental regulations are among the strictest in the US. We regularly review regulatory compliance requirements such as hazardous waste disposal and air quality, among others and ensure our facilities are compliant with federal, state and local regulations.
Emerging regulation	Relevant, always included	Compliance with changing regulation of corporate governance and public disclosure may result in additional expenses that could impact our bottom line. For example, our compliance cost may increase under the proposed SEC disclosure rule in the US and we are closely following these emerging regulations to ensure we will be compliant.
Technology	Relevant, always included	Technology risk is relevant and is always considered in our risk management process. For example, through our business continuity management system, we regularly review technologies such as renewable energy and battery systems that could potentially improve our resiliency against natural disasters and operation disruptions.
Legal	Relevant, always included	Legal risks have always been considered in our risk management processes. We may be subject to legal claims or regulatory matters involving consumer, stockholder, employment, competition, IP and other issues on a global basis. However, we consider our legal risks related to climate change are low as current and emerging regulations are more relevant at this time.
Market	Relevant, always included	We rely on third parties for a variety of services, including manufacturing, and these third parties' failure to perform these services adequately or change the allocation of their services/capacity due to industry or other pressures could materially and adversely affect our business.
Reputation	Relevant, always included	Rambus has a relatively concentrated customer base and this risk is always included in our risk assessment. Customers and stakeholders are increasingly requesting information on our ESG practices and initiatives, which include climate-related issues. Rambus makes great effort to maintain our reputation by meeting stakeholder expectations and delivering excellence. Reputation risk is always included in our risk management processes. For example, through our risk management processes, we became aware that our customers are increasingly asking about our efforts to reduce energy consumption of our products and we have integrated the management of this risk into our product design processes.
Acute physical	Relevant, always included	Our operations are subject to risk of natural disasters that may intensify due to climate change at our domestic and international locations. Any one of which could result in a business stoppage and negatively affect our operating results. For example, our San Jose headquarters and the local employees are at risk of experiencing wildfires and flooding events, and our location in Bangalore, India has a high risk of heat wave. These physical risks are integrated in our risk management processes through the BCMS and the Environmental, Health, Safety and Energy management system.
Chronic physical	Relevant, always included	Our operations are subject to risks of chronic physical risks such as chronic water stress and sea level rise. Our San Jose headquarters may be at risk of sea level rise, and our location in Bangalore, India has a high risk of drought. These physical risks are integrated in our risk management processes through the BCMS and the Environmental, Health, Safety and Energy management system.

## C2.3

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

## C2.3a

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

#### Identifier

Risk 1

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

Direct operations

#### Risk type & Primary climate-related risk driver

A	cute physical	Wildfire

#### Primary potential financial impact

Increased indirect (operating) costs

#### Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

## Company-specific description

Our headquarters building in San Jose and data centers located near our headquarters are at high risk of wildfire and this risk may be exacerbated by increasing temperatures. This may lead to disruptions in our operations and potential asset damages.

#### Time horizon

Short-term

#### Likelihood

Very likely

#### **Magnitude of impact**

High

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

Yes, an estimated range

## Potential financial impact figure (currency)

<Not Applicable>

## Potential financial impact figure – minimum (currency)

0

#### Potential financial impact figure - maximum (currency)

10000000

### Explanation of financial impact figure

The financial impact estimate of this risk includes impacts that would occur from loss of our corporate headquarters and associated business interruptions from a wildfire event and the subsequent restoration to normal operation.

## Cost of response to risk

10000000

## Description of response and explanation of cost calculation

We closely monitor and respond to potential fire events that may disrupt our operations and have business continuity plans in place to manage these risks. The cost of response includes auxiliary power investments to sustain critical operations in the event a wildfire occurs and creating redundancies for our data centers in areas at lower risk of wildfire.

### Comment

## C2.4

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

## C2.4a

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

#### Identifier

Opp1

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

Direct operations

#### Opportunity type

Resource efficiency

#### Primary climate-related opportunity driver

Move to more efficient buildings

#### Primary potential financial impact

Reduced indirect (operating) costs

#### Company-specific description

Part of Rambus's lease renewal strategy is to leverage negotiations to address environmental, as well as health and wellness, aspects of its workplaces. This includes the prioritization of green certifications such as LEED, Fitwel, WELL, etc. which promote energy and water-efficient buildings that reduce costs associated with utility consumption. Additionally, we continue to explore and implement energy efficiency projects to reduce energy consumption used in our facilities, for example, replacing air handling units in our Bangalore, India office and relighting our office in France with more efficient lighting.

#### Time horizon

Short-term

#### Likelihood

Likely

## Magnitude of impact

Medium-low

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

Yes, a single figure estimate

#### Potential financial impact figure (currency)

37000

### Potential financial impact figure - minimum (currency)

<Not Applicable>

#### Potential financial impact figure - maximum (currency)

<Not Applicable>

#### Explanation of financial impact figure

This financial impact figure is calculated by the total monetary savings from the replacement of AHUs in the Bangalore office and the cost savings from relighting at France cost savings expected from replacing the AHUs at Bangalore is estimated to be 33,000 USD and the cost savings achieved from relighting the France office is estimated to be around 4,000 USD. The figure provided is an annual cost savings and the actual cost savings achieved throughout the lifetime would be much higher.

## Cost to realize opportunity

43200

### Strategy to realize opportunity and explanation of cost calculation

Cost to realize opportunity is calculated by the investment required to replace the AHUs in our Bangalore, India office and the investment required for relighting at France. Investment required to replace the AHUs at Bangalore is estimated to be 39,000 USD and the investment for relighting the France office is estimated to be around 4,200 USD. We have other sustainability initiatives such as electronic recycling across our offices, however, those costs are not separately monitored and are expected to be minimal. Therefore, we use the AHU project and the relighting project as a proxy to estimate our cost to improve energy efficiency in our offices.

#### Comment

## C3. Business Strategy

## C3.1

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

#### Row 1

#### Climate transition plan

No, our strategy has been influenced by climate-related risks and opportunities, but we do not plan to develop a climate transition plan within two years

#### Publicly available climate transition plan

<Not Applicable>

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

<Not Applicable>

#### Description of feedback mechanism

<Not Applicable>

#### Frequency of feedback collection

<Not Applicable>

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

<Not Applicable>

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

Although our strategy is influenced by climate-related risks and opportunities, we do not currently have a transition plan that aligns with a 1.5°C world. Rambus is actively working to set goals and targets regarding our climate impact. Once we have set targets and goals, a transition plan will likely follow but we anticipate this timeline to be after two years

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

<Not Applicable>

#### C3.2

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

	analysis to inform strategy	, , , , ,	Explain why your organization does not use climate-related scenario analysis to inform its strategy and any plans to use it in the future
Rov 1	No, but we anticipate using qualitative and/or quantitative analysis in the next two years		At this moment, our immediate priority is to set goals and targets for our climate impact, which we look forward to sharing in the future. We are currently evaluating our climate risks and opportunities qualitatively, but we anticipate using scenario analysis to further strengthen our risk assessment.

## C3.3

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

	Have climate- related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	Climate-related risks and opportunities influence our products and services strategy. We continue to invest in cutting-edge technology to decrease energy use and maximize performance of our products. In 2021, Rambus completed a detailed management systems framework related to product stewardship based on the principles of ISO 9001 for quality management systems and ISO 14001, 14006 and 14062 for environmental management systems. These frameworks outline the importance of implementing an eco-design policy in our product stewardship process thereby reducing adverse environmental impacts throughout the life cycle of our product. Our product design and development process helps us evaluate environmental targets and specifications at each stage. As we move forward with our product stewardship plans, we look forward to setting targets to achieve energy efficiency gains in our products. Considering the performance of our products in terms of performance per watt of energy, energy efficiency improvement, and ultimately total cost of ownership will meaningfully contribute to Rambus' goals in reducing GHG emissions in our supply chain and acting as strong stewards for the environment in our product development and production.
Supply chain and/or value chain	Yes	Climate-related risks and opportunities have influenced our strategy related to supply chain. Rambus actively worked to formalize our sustainable procurement policies and model of excellence for the future at Rambus. In September 2020, we adopted our first Vendor Code of Conduct, based on the Responsible Business Alliance (RBA) Code of Conduct, which is in turn informed by the Universal Declaration of Human Rights. This Code of Conduct establishes standards to ensure that working conditions in the electronics industry and its supply chains are safe, that workers are treated with respect and dignity, and that business operations are environmentally responsible and conducted ethically. Rambus expects our vendors to comply with the RBA code and with the Rambus Code of Business Conduct and Ethics, as well as all national and local laws and regulations.  In 2022, we also implemented a performance measurement system for suppliers that enables a baseline measurement associated with key sustainability goals and performance indicators. We onboarded our top direct suppliers to the CDP supplier platform and will begin to collect more detailed, granular data from these suppliers. On an annual basis, we will monitor, assess and provide continuous improvement mechanisms and take corrective actions with suppliers. This process will also assist in the selection of new suppliers and actively communicate the results of annual assessments to decision makers and internal stakeholders. We will benchmark our work in this area against leaders in our field using RBA's standards for excellence.
Investment in R&D	Evaluation in progress	We know climate change is a serious environmental, social, and economic threat. All sectors of society must take immediate and collaborative action to protect the future of our planet. At Rambus, we are addressing climate change directly, minimizing our environmental footprint to contribute to a healthier world. Our commitment to innovation and invention in our business extends directly to the way we view environmental excellence at Rambus. We are actively seeking out technology innovation opportunities to ensure our manufacturing processes, materials sourcing and technological advances are environmentally friendly.
Operations	Yes	Climate-related risks and opportunities have been influenced our operations and how we are approaching mitigating our impact on the climate. We have developed a four-pillar strategy to reduce the environmental footprint of our operations - Prevention of Pollution, Sustainable Resource Use, Climate Change Mitigation and Adaption and Protection of the Environment, Biodiversity and Restoration of Natural Habitats. Through these four pillars, and environment and management systems to measure, record and report data related to water consumption, waste emissions, packaging materials and energy consumption and environment, and implemented strategies and initiatives such as the LEED certification in our headquarter building in San Jose. We have also moved to 100% renewable energy for our headquarters in San Jose, our office in India in 2021 and our office in France in 2022. These three locations represent 72% of our scope 2 emissions.

(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	Indirect costs Capital expenditures	Our financial planning processes account for initiatives and strategies related to managing climate risks and mitigating climate impacts and depending on the specific initiative or strategy, the element of financial planning influence would be indirect costs or capital capital, or both. For example, our indirect operating cost, specifically our spend on energy have been influenced because we have negotiated contracts with our landlords in San Jose, India and France to move to 100% renewable energy. Additionally, our capital expenditures have also been influenced. We have a dedicated capital budget to implement energy efficiency and other sustainability initiatives in our facilities in an effort to mitigate our emissions.

## C3.5

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

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

## 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
F	Row 1	We are planning to introduce a target in the next two years		Rambus intends to establish emissions targets in the next two years.

## C4.2

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

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*	2	2.55
Not to be implemented	0	0

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

## Initiative category & Initiative type

Energy efficiency in buildings

Estimated annual CO2e savings (metric tonnes CO2e)

0.53

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

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

4015

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

4356

Payback period

1-3 years

Estimated lifetime of the initiative

6-10 years

Comment

### Initiative category & Initiative type

Low-carbon energy consumption Low-carbon electricity mix

## Estimated annual CO2e savings (metric tonnes CO2e)

2.02

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

Scope 2 (market-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

<1 year

Comment

# C4.3c

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

Method	Comment
Dedicated budget for energy efficiency	We have dedicated budget to implement energy efficiency projects in our facilities.

## C4.5

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

No

## C5. Emissions methodology

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

Nο

## C5.1a

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

#### Row 1

Has there been a structural change?

Nο

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

<Not Applicable>

Details of structural change(s), including completion dates

<Not Applicable>

#### C5.1b

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

	Change(s) in methodology, boundary, and/or reporting year definition?	Details of methodology, boundary, and/or reporting year definition change(s)	
Row 1	No	<not applicable=""></not>	

#### C5.2

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

## Scope 1

Base year start

January 1 2020

Base year end

December 31 2020

Base year emissions (metric tons CO2e)

1.059

Comment

Scope 2 (location-based)

Base year start

January 1 2020

Base year end

December 31 2020

Base year emissions (metric tons CO2e)

1455.185

Comment

This include the electricity used in our offices. In our previous year's report, these emissions were inaccurately included in scope 3 - upstream leased asset.

Scope 2 (market-based)

Base year start

January 1 2020

Base year end

December 31 2020

Base year emissions (metric tons CO2e)

1455.185

#### Comment

This include the electricity used in our offices. In our previous year's report, these emissions were inaccurately included in scope 3 - upstream leased asset.

## Scope 3 category 1: Purchased goods and services

#### Base year start

January 1 2020

#### Base year end

December 31 2020

#### Base year emissions (metric tons CO2e)

3435.982

#### Comment

This only includes contract manufacturing; other purchased goods and services are not currently included.

## Scope 3 category 2: Capital goods

#### Base year start

January 1 2020

### Base year end

December 31 2020

#### Base year emissions (metric tons CO2e)

#### Comment

We did not evaluate emissions from this category in 2020.

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

#### Base year start

January 1 2020

#### Base year end

December 31 2020

## Base year emissions (metric tons CO2e)

#### Comment

We did not evaluate emissions from this category in 2020.

#### Scope 3 category 4: Upstream transportation and distribution

#### Base year start

January 1 2020

#### Base year end

December 31 2020

## Base year emissions (metric tons CO2e)

#### Commen

We did not evaluate emissions from this category in 2020.

## Scope 3 category 5: Waste generated in operations

## Base year start

January 1 2020

#### Base year end

December 31 2020

## Base year emissions (metric tons CO2e)

78.275

## Comment

### Scope 3 category 6: Business travel

### Base year start

January 1 2020

## Base year end

December 31 2020

### Base year emissions (metric tons CO2e)

210.184

#### Comment

# Scope 3 category 7: Employee commuting

## Base year start

January 1 2020

#### Base year end

December 31 2020

## Base year emissions (metric tons CO2e)

333.037

#### Comment

#### Scope 3 category 8: Upstream leased assets

#### Base year start

January 1 2020

#### Base year end

December 31 2020

#### Base year emissions (metric tons CO2e)

0

#### Comment

The emissions from our leased offices were inaccurately included in this category in last year's report. We have since included the emissions from leased offices in scope 1 and scope 2, therefore emissions in this category is 0.

## Scope 3 category 9: Downstream transportation and distribution

#### Base year start

January 1 2020

#### Base year end

December 31 2020

## Base year emissions (metric tons CO2e)

0

#### Comment

We did not evaluate emissions from this category in 2020.

#### Scope 3 category 10: Processing of sold products

#### Base year start

January 1 2020

#### Base year end

December 31 2020

#### Base year emissions (metric tons CO2e)

#### Comment

We did not evaluate emissions from this category in 2020.

#### Scope 3 category 11: Use of sold products

#### Base year start

January 1 2020

## Base year end

December 31 2020

### Base year emissions (metric tons CO2e)

#### Comment

We did not evaluate emissions from this category in 2020.

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

## Base year start

January 1 2020

### Base year end

December 31 2020

## Base year emissions (metric tons CO2e)

#### Comment

We did not evaluate emissions from this category in 2020.

## Scope 3 category 13: Downstream leased assets

## Base year start

January 1 2020

## Base year end

December 31 2020

## Base year emissions (metric tons CO2e)

## Comment

Not applicable.

## Scope 3 category 14: Franchises

### Base year start

January 1 2020

### Base year end

December 31 2020

## Base year emissions (metric tons CO2e)

#### Comment

Not applicable.

#### Scope 3 category 15: Investments

#### Base year start

January 1 2020

#### Base year end

December 31 2020

Base year emissions (metric tons CO2e)

#### Comment

Not applicable.

Scope 3: Other (upstream)

#### Base year start

January 1 2020

#### Base year end

December 31 2020

Base year emissions (metric tons CO2e)

#### Comment

Not applicable.

## Scope 3: Other (downstream)

#### Base year start

January 1 2020

#### Base year end

December 31 2020

Base year emissions (metric tons CO2e)

#### Comment

Not applicable.

#### C5.3

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

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

US EPA Center for Corporate Climate Leadership: Indirect Emissions From Purchased Electricity

US EPA Center for Corporate Climate Leadership: Direct Emissions from Stationary Combustion Sources

 ${\tt US}\ {\tt EPA}\ {\tt Center}\ {\tt for}\ {\tt Corporate}\ {\tt Climate}\ {\tt Leadership}; \ {\tt Direct}\ {\tt Emissions}\ {\tt from}\ {\tt Mobile}\ {\tt Combustion}\ {\tt Sources}$ 

US EPA Emissions & Generation Resource Integrated Database (eGRID)

## C6. Emissions data

### C6.1

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

## Reporting year

## Gross global Scope 1 emissions (metric tons CO2e)

1853.392

#### 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 are reporting a Scope 2, market-based figure

#### Comment

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

#### Reporting year

#### Scope 2, location-based

1031.5

#### Scope 2, market-based (if applicable)

275.2

#### 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, Scope 2 or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure?

No

#### C6.5

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

#### Purchased goods and services

#### **Evaluation status**

Relevant, calculated

### Emissions in reporting year (metric tons CO2e)

62020

## Emissions calculation methodology

Spend-based method

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

0

## Please explain

Our emissions in this category were calculated using spend-based methodology for the reporting year. We are in the process of collecting emissions data from our contract manufacturers and will improve our methodology in the coming years to calculate emissions using data obtained from suppliers.

## Capital goods

# **Evaluation status**

Relevant, calculated

### Emissions in reporting year (metric tons CO2e)

4383.068

## Emissions calculation methodology

Spend-based method

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

0

### Please explain

Emissions from capital goods are calculated by spend-based methodology. Sources of emissions include machinery, equipment, etc. purchased during the reporting year.

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

#### **Evaluation status**

Relevant, calculated

### Emissions in reporting year (metric tons CO2e)

136.253

## Emissions calculation methodology

Average data method

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

0

#### Please explain

Emissions in this category is calculated by using the average grid losses in the regions where we purchased energy.

#### Upstream transportation and distribution

#### **Evaluation status**

Relevant, calculated

#### Emissions in reporting year (metric tons CO2e)

46.95

#### **Emissions calculation methodology**

Supplier-specific method

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

100

#### Please explain

Emissions are calculated based on the emissions figures provided by logistics suppliers. It is assumed that downstream transportation is negligible and all emissions are associated with upstream transportation.

#### Waste generated in operations

#### **Evaluation status**

Relevant, calculated

#### Emissions in reporting year (metric tons CO2e)

8.9

#### **Emissions calculation methodology**

Average data method

Waste-type-specific method

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

0

#### Please explain

Emissions are calculated for each waste stream in our locations and specific emission factors for each waste and respective disposal method.

## **Business travel**

#### **Evaluation status**

Relevant, calculated

## Emissions in reporting year (metric tons CO2e)

521.438

### **Emissions calculation methodology**

Spend-based method

Distance-based method

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

95

#### Please explain

Air travel is calculated by the distance between the origin and destination city pairs. Distance-data is obtained from our travel booking agency. Air travel represents 95% of our business travel emissions. For business travel for other modes (rail, hotel, etc.), we used spend-based methodology and these emissions represent 5% of total business travel emissions.

## **Employee commuting**

## **Evaluation status**

Relevant, calculated

#### Emissions in reporting year (metric tons CO2e)

76.133

## Emissions calculation methodology

Distance-based method

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

0

#### Please explain

Commuting data is collected through employee survey in each of our locations, including mode of travel, distance travelled each day, and number of days travelled during the reporting year. Average emission factors for each mode of travel are multiplied with total distance travelled during the reporting year to calculate total employee commuting emissions.

## Upstream leased assets

#### **Evaluation status**

Not relevant, calculated

#### Emissions in reporting year (metric tons CO2e)

0

## Emissions calculation methodology

Spend-based method

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

0

#### Please explain

Because we use the operational control boundary and we have operational control over all our leased offices, we do not have any facilities that fall under this category. All emissions from our leased spaces are included in scope 1 and scope 2. Therefore the emissions from this category is 0.

#### Downstream transportation and distribution

#### **Evaluation status**

Relevant, calculated

#### Emissions in reporting year (metric tons CO2e)

Λ

#### **Emissions calculation methodology**

Supplier-specific method

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

100

#### Please explain

Emissions are calculated by total emissions provided by logistic providers. We currently do not have a method to separate upstream transportation with downstream. However, we assume that downstream transportation is negligible compared with upstream transportation, since almost all of our shipments are shipped from the contract manufacturers. Therefore, downstream transportation emissions ar assumed to be 0.

#### Processing of sold products

#### **Evaluation status**

Not relevant, explanation provided

## Emissions in reporting year (metric tons CO2e)

<Not Applicable>

#### **Emissions calculation methodology**

<Not Applicable>

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

<Not Applicable>

#### Please explain

Our sold products (IP chips, etc.) do not go through further processing that may emit GHG.

#### Use of sold products

#### **Evaluation status**

Relevant, calculated

## Emissions in reporting year (metric tons CO2e)

200386.743

### **Emissions calculation methodology**

Average data method

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

0

# Please explain

The emissions from this category is calculated by the total number of chips that we sold during the reporting year, the average power demand per chip (0.75W) and the average emission factors in the US. We assume that the data centers and systems where our products are used operate 365 days and 24 hours.

## End of life treatment of sold products

## Evaluation status

Relevant, not yet calculated

## Emissions in reporting year (metric tons CO2e)

<Not Applicable>

## Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

#### Please explain

We do not currently have a method to track how our products are disposed of at end of life.

## Downstream leased assets

### Evaluation status

Not relevant, explanation provided

# Emissions in reporting year (metric tons CO2e)

<Not Applicable>

## **Emissions calculation methodology**

<Not Applicable>

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

<Not Applicable>

#### Please explain

We do not have any downstream leased assets; therefore the emissions is 0 for this category.

#### Franchises

#### **Evaluation status**

Not relevant, explanation provided

#### Emissions in reporting year (metric tons CO2e)

<Not Applicable>

#### **Emissions calculation methodology**

<Not Applicable>

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

<Not Applicable>

#### Please explain

We do not have any franchises; therefore the emissions associated with this category is  $\boldsymbol{0}$ 

#### Investments

#### **Evaluation status**

Not relevant, explanation provided

### Emissions in reporting year (metric tons CO2e)

<Not Applicable>

#### **Emissions calculation methodology**

<Not Applicable>

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

<Not Applicable>

## Please explain

We do not have any investments; therefore the emissions associated with this category is 0.

### Other (upstream)

#### **Evaluation status**

Not relevant, explanation provided

#### Emissions in reporting year (metric tons CO2e)

<Not Applicable>

#### **Emissions calculation methodology**

<Not Applicable>

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

<Not Applicable>

## Please explain

We do not have other upstream activities that are not already included in the above sections.

## Other (downstream)

#### **Evaluation status**

Not relevant, explanation provided

## Emissions in reporting year (metric tons CO2e)

<Not Applicable>

#### **Emissions calculation methodology**

<Not Applicable>

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

<Not Applicable>

## Please explain

We do not have other downstream activities that are not already included in the above sections.

### 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

0.00000634

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

2884.9

#### Metric denominator

unit total revenue

Metric denominator: Unit total

454800000

#### Scope 2 figure used

Location-based

% change from previous year

16

#### Direction of change

Decreased

## Reason(s) for change

Change in renewable energy consumption

Other emissions reduction activities

Change in revenue

#### Please explain

We have invested in emissions reduction activities throughout our offices such as relighting our office in France, which contributed to reducing our emissions intensity, Additionally, we executed a renewable energy procurement contract in France to procure 100% renewable energy for our office. Our revenue increased significantly from 2021 levels, which is the main contributor to the reduction in emissions intensity.

#### C7. Emissions breakdowns

#### C7.1

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

No

## C7.2

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

Country/area/region	Scope 1 emissions (metric tons CO2e)
United States of America	1771.81
India	26.43
Netherlands	55.155

## 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
San Jose	1770.581	35.931308	-79.03251
Chapel Hills	1.225	35.9132	-79.0558
Bangalore, India	26.43	12.9716	77.5946
Vught, Netherlands	55.155	51.6533	5.2943

CDP

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

Country/area/region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
United States of America	340.136	183.152
Canada	34.2	28
India	591.139	0
Finland	4.164	4.164
Netherlands	47.899	47.899
Bulgaria	6.446	6.446
Republic of Korea	0.225	0.225
France	2.022	0
Taiwan, China	5.255	5.255

## C7.6

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

## C7.6b

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

Facility	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
San Jose	156.98	0
Hillsboro	70.03	70.03
Bangalore, India	591.14	0
Chapel Hills	69.23	69.23
Agoura Hills	43.9	43.9
Toronto	24.88	24.88
Finland	4.16	4.16
Vught	47.9	47.9
Korea	0.23	0.23
Bulgaria-Sofia	5.99	5.99
Bulgaria-Plodiv	0.46	0.46
France	2.02	0
Taiwan	5.26	5.26
Toronto - Analog x	3.2	3.2
Montreal	6.19	0

## C7.7

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

## C7.9

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

## C7.9a

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

	Change in emissions (metric tons CO2e)	Direction of change in emissions	value (percentage)	Please explain calculation	
Change in renewable energy consumption	8.21	Decreased	0.46	In 2022, we executed on a renewable energy procurement contract in our France office to purchase 100% renewable energy, which accounted for 2.02 metric ton of emissions. Our new Montreal office is also operating on renewable electricity from hydro which accounted for 6.19 metric tons of emissions. Collectively these two sites reduced 8.21 metric tons of emissions. Our previous year's scope 1+2 (market-based) emissions was 1773 metric tons and the 8.21 metric tons of reduction represented 0.46%.	
Other emissions reduction activities	0.533	Decreased	0.03	In 2022, we completed a relighting project in our France office, which accounted for 0.53 metric ton of emissions. Our previous year's scope 1+2 (market-based) emissions was 1773 metric tons and the 0.53 metric tons of reduction represented 0.03%.	
Divestment	0	No change	0	no change from divestment	
Acquisitions	0	No change	0	no change from acquisitions	
Mergers	0	No change	0	no change from mergers	
Change in output	365.073	Increased	20.6	In 2022, our natural gas consumption at San Jose office and our overall electricity consumption compared with last year. This increase is aligned with the increase of more than 50% in revenue in 2022 from 2021. We estimate this increase in emissions to be 365 metric tons. Our previous year's scope 1+2 (market-based) emissions was 1773 metric tons and the 365 metric tons of reduction represented 20.6%.	
Change in methodology	0	No change	0	no change in methodology	
Change in boundary	0	No change	0	no change in boundary	
Change in physical operating conditions	0	No change	0	no change in physical operating conditions	
Unidentified	0	No change	0	no change	
Other	0	No change	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 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)	Unable to confirm heating value	0	9480	9480
Consumption of purchased or acquired electricity	<not applicable=""></not>	1548	1075	2623
Consumption of purchased or acquired heat	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>
Consumption of purchased or acquired steam	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>
Consumption of purchased or acquired cooling	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>
Consumption of self-generated non-fuel renewable energy	<not applicable=""></not>	0	<not applicable=""></not>	0
Total energy consumption	<not applicable=""></not>	1548	10555	12104

## 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.

#### Sustainable biomass

#### Heating value

Unable to confirm heating value

## Total fuel MWh consumed by the organization

0

## 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>

## Comment

## Other biomass

## Heating value

Unable to confirm heating value

## Total fuel MWh consumed by the organization

0

## MWh fuel consumed for self-generation of electricity

U

# MWh fuel consumed for self-generation of heat

U

### 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>

## Comment

CDP

## Other renewable fuels (e.g. renewable hydrogen)

#### Heating value

Unable to confirm heating value

#### Total fuel MWh consumed by the organization

0

# 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>

## Comment

#### Coal

### Heating value

Unable to confirm heating value

### Total fuel MWh consumed by the organization

U

## MWh fuel consumed for self-generation of electricity

## 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>

# Comment

Oil

## Heating value

Unable to confirm heating value

# Total fuel MWh consumed by the organization

0

# MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

# 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>

#### Comment

#### Gas

#### Heating value

Unable to confirm heating value

#### Total fuel MWh consumed by the organization

Λ

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>

Comment

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

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

9480

MWh fuel consumed for self-generation of electricity

9480

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>

Comment

This include natural gas consumption at the San Jose headquarters to generate electricity, as well as the backup diesel generator.

#### Total fue

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

9480

MWh fuel consumed for self-generation of electricity

9480

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>

Comment

This include natural gas consumption at the San Jose headquarters to generate electricity, as well as the backup diesel generator.

## C8.2d

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

			_	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	5185.45	5185.45	0	0
Heat				
Steam				
Cooling				

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

## Country/area of low-carbon energy consumption

United States of America

#### Sourcing method

Retail supply contract with an electricity supplier (retail green electricity)

#### **Energy carrier**

Electricity

#### Low-carbon technology type

Renewable energy mix, please specify (Renewable energy is procured through the TotalGreen program offered through San Jose Clean Energy.)

## Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

648.6

#### Tracking instrument used

Contract

## Country/area of origin (generation) of the low-carbon energy or energy attribute

United States of America

#### Are you able to report the commissioning or re-powering year of the energy generation facility?

Yes

#### Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

2019

#### Comment

San Jose Clean Energy was launched in 2019.

#### Country/area of low-carbon energy consumption

India

### Sourcing method

Retail supply contract with an electricity supplier (retail green electricity)

#### **Energy carrier**

Electricity

## Low-carbon technology type

Renewable energy mix, please specify (Renewable electricity is purchased from Green Power Provider through our landlord in Banglore)

## Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

814.1

#### Tracking instrument used

Contract

### Country/area of origin (generation) of the low-carbon energy or energy attribute

India

## Are you able to report the commissioning or re-powering year of the energy generation facility?

No

### Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

<Not Applicable>

## Comment

## Country/area of low-carbon energy consumption

France

## Sourcing method

Retail supply contract with an electricity supplier (retail green electricity)

#### **Energy carrier**

Electricity

## Low-carbon technology type

Renewable energy mix, please specify (Renewable electricity is purchased from EDF, the utility provider in France)

## Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

37.6

#### Tracking instrument used

Contract

## Country/area of origin (generation) of the low-carbon energy or energy attribute

France

## Are you able to report the commissioning or re-powering year of the energy generation facility?

No

#### Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

<Not Applicable>

#### Comment

## Country/area of low-carbon energy consumption

Canada

#### Sourcing method

Default delivered electricity from the grid (e.g. standard product offering by an energy supplier) from a grid that is 95% or more low-carbon and where there is no mechanism for specifically allocating low-carbon electricity

#### **Energy carrier**

Electricity

#### Low-carbon technology type

Hydropower (capacity unknown)

## Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

477

#### Tracking instrument used

No instrument used

#### Country/area of origin (generation) of the low-carbon energy or energy attribute

Canada

#### Are you able to report the commissioning or re-powering year of the energy generation facility?

No

#### Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

<Not Applicable>

#### Comment

### C8.2g

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

#### Country/area

United States of America

## Consumption of purchased electricity (MWh)

1309.17

#### Consumption of self-generated electricity (MWh)

5185.45

## Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

6494.62

# Country/area

Canada

# Consumption of purchased electricity (MWh)

263.78

# Consumption of self-generated electricity (MWh)

U

## Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

263.78

## Country/area

India

## Consumption of purchased electricity (MWh)

814.13

Consumption of self-generated electricity (MWh) 0

Is this electricity consumption excluded from you

Is this electricity consumption excluded from your RE100 commitment?

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

0

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

0

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

814.13

#### Country/area

Finland

Consumption of purchased electricity (MWh)

44 83

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

•

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

44.83

#### Country/area

Netherlands

Consumption of purchased electricity (MWh)

129 67

Consumption of self-generated electricity (MWh)

U

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

U

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

129.67

### Country/area

Republic of Korea

Consumption of purchased electricity (MWh)

0.44

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

U

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

U

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

0.44

### Country/area

Bulgaria

Consumption of purchased electricity (MWh)

14.74

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

14.74

## Country/area

France

Consumption of purchased electricity (MWh)

37.58

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

U

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

37.58

## Country/area

Taiwan, China

Consumption of purchased electricity (MWh)

8.4

Consumption of self-generated electricity (MWh)

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

U

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

0

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

8.4

## C9. Additional metrics

### C9.1

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

## C10. Verification

## C10.1

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

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	Third-party verification or assurance process in place

### C10.1a

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

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

2023 GHG verification Rambus Letter.pdf

Page/ section reference

1-2

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

#### C10.1b

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

Scope 2 approach

Scope 2 location-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

2023 GHG verification Rambus Letter.pdf

Page/ section reference

1-2

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

## C10.1c

(C10.1c) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.

Scope 3 category

Scope 3: Purchased goods and services

Scope 3: Capital goods

Scope 3: Business travel

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

2023 GHG verification Rambus Letter.pdf

Page/section reference

1-2

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

## C10.2

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

## C10.2a

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

Disclosure module verification relates to	Data verified	Verification standard	Please explain
C8. Energy	Energy	ISO14064-3	The purchased electricity, natural gas, and distillate fuel oil data provided in C8 are verified as part of the GHG verification
	consumption		process.

## C11. Carbon pricing

## C11.1

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

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

## C11.2

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

No

# C11.3

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

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

# C12. Engagement

## C12.1

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

Yes, our suppliers

Yes, our customers/clients

# C12.1a

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

#### Type of engagement

Information collection (understanding supplier behavior)

#### **Details of engagement**

Collect GHG emissions data at least annually from suppliers

#### % of suppliers by number

100

#### % total procurement spend (direct and indirect)

100

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

100

#### Rationale for the coverage of your engagement

On an annual basis, we identify and engage with key, direct suppliers to manufacture, assemble or package our products to collect their GHG emissions data. These suppliers represent the majority of our annual spend and that are under contract. Additionally, this year we onboarded our top direct suppliers to the CDP supplier engagement platform, which will enable us to track more detailed data and performance on an annual basis.

#### Impact of engagement, including measures of success

We anticipate that the impact of this engagement will include the following: increased transparency into our supply chain and the associated climate impact; better understanding of our supply chain risks and mitigation strategies; establishing a formal due diligence framework to ensure our suppliers are held to high standards in sustainability.

Success is measured by the percentage of suppliers that shared their GHG data with Rambus and we aim for at least the top 80% suppliers to share their data with us.

#### Comment

#### C12.1b

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

#### Type of engagement & Details of engagement

Education/information sharing	Run an engagement campaign to education customers about your climate change performance and strategy
-------------------------------	--

#### % of customers by number

100

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

100

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

We publicly share our climate change performance and strategy on the Rambus website and our ESG report. Because climate change is key topic that are increasingly integrated into the decision making processes of our customer and other stakeholders, we aim to communicate our strategy and performance on climate change as widely as possible to reach all customers. Therefore, we consider that this engagement effort covers 100% of our customers.

## Impact of engagement, including measures of success

The most important impacts of this engagement effort are enhanced brand perception and potentially increase in revenue.

Success of these engagements is measured through customer feedback on our climate strategy and performance. We aim to address all customer feedback in a timely manner, and share our data and strategy with 100% of our customers when they request these information.

### C12.2

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

Yes, suppliers have to meet climate-related requirements, but they are not included in our supplier contracts

# C12.2a

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

#### Climate-related requirement

Climate-related disclosure through a non-public platform

#### Description of this climate related requirement

We adopted the RBA Code of Conduct for our worldwide operations and published a Vendor Code of Conduct ("Rambus Vendor Code") based upon the RBA Code of Conduct that applies to all key suppliers. We communicate that requirement along with other requirements such as their CDP/GHG data, conflict minerals reporting template, information to aid our business continuity planning. We have established a continuous due diligence process which will make use of industry due diligence tools and programs the shareability of the output from those programs, such as risk assessments, corrective action plan management and 3rd party audits.

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

% suppliers by procurement spend in compliance with this climate-related requirement  $100\,$ 

Mechanisms for monitoring compliance with this climate-related requirement

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

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

Retain and engage

#### C12.3

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

#### Row 1

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

No, we have assessed our activities, and none could either directly or indirectly influence policy, law, or regulation that may impact the climate

Does your organization have a public commitment or position statement to conduct your engagement activities in line with the goals of the Paris Agreement? No, but we plan to have one in the next two years

Attach commitment or position statement(s)

<Not Applicable>

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

We do not directly engage on policy issues related to climate change. We engage with several trade associations and have regular conversations with our industry group to ensure our positions are aligned.

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

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

At this moment, none of the trade associations that we engage with have activities that could directly or indirectly influence policy, law, or regulation that may impact the climate.

## 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 mainstream reports, incorporating the TCFD recommendations

#### Status

Complete

#### Attach the document

2021-Rambus-ESG-Report.pdf

#### Page/Section reference

Page 33 for TCFD index

#### **Content elements**

Governance

Strategy

Risks & opportunities

Emissions figures

Emission targets

#### Comment

#### Publication

In voluntary sustainability report

#### Status

Complete

#### Attach the document

2021-Rambus-ESG-Report.pdf

#### Page/Section reference

page 7-30

#### **Content elements**

Strategy

Risks & opportunities

Emissions figures

#### Comment

# C12.5

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

		Describe your organization's role within each framework, initiative and/or commitment
Row	We are not a signatory/member of any collaborative framework, initiative and/or commitment related to environmental	<not applicable=""></not>
1	issues	

## C15. Biodiversity

## C15.1

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

		, , , , , , , , , , , , , , , , , , , ,	Scope of board-level oversight
Row 1	No, but we plan to have both within the next two years	<not applicable=""></not>	<not applicable=""></not>

## C15.2

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

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

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

#### Impacts on biodiversity

#### Indicate whether your organization undertakes this type of assessment

No, but we plan to within the next two years

#### Value chain stage(s) covered

<Not Applicable>

## Portfolio activity

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

## Dependencies on biodiversity

#### Indicate whether your organization undertakes this type of assessment

No, but we plan to within the next two years

#### Value chain stage(s) covered

<Not Applicable>

#### Portfolio activity

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

## C15.4

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

No

## C15.5

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

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

## C15.6

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

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

## C15.7

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

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

## C16. Signoff

# C-FI

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

#### C16.1

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

	Job title	Corresponding job category
Row 1	Sr. Director, Global Workplace	Facilities manager

## SC. Supply chain module

#### SC0.0

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

#### SC0.1

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

	Annual Revenue
Row 1	454800000

#### 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

Micron Technology, Inc.

## Scope of emissions

Scope 1

#### Scope 2 accounting method

<Not Applicable>

## Scope 3 category(ies)

<Not Applicable>

#### Allocation level

Company wide

## Allocation level detail

<Not Applicable>

## Emissions in metric tonnes of CO2e

185.3

# Uncertainty (±%)

10

#### Major sources of emissions

Fuels consumed during the reporting year including natural gas, diesel, etc.

## Verified

No

## Allocation method

Allocation based on the market value of products purchased

# Market value or quantity of goods/services supplied to the requesting member

45480000

## Unit for market value or quantity of goods/services supplied

Currency

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

In 2022, revenue from Micron accounted for 10% or more of our total revenue. To allocate the emissions, we assumed that the requesting member represented 10% of our revenue. Therefore, market value of goods supplied to the requesting member is 10% of our total revenue. We allocated 10% of emissions to this requesting member.

## Requesting member

Samsung Electronics

#### Scope of emissions

Scope 1

#### Scope 2 accounting method

<Not Applicable>

#### Scope 3 category(ies)

<Not Applicable>

#### Allocation level

Company wide

#### Allocation level detail

<Not Applicable>

#### Emissions in metric tonnes of CO2e

185.3

#### Uncertainty (±%)

10

#### Major sources of emissions

Fuels consumed during the reporting year including natural gas, diesel, etc.

#### Verified

Nο

#### Allocation method

Allocation based on the market value of products purchased

#### Market value or quantity of goods/services supplied to the requesting member

45480000

## Unit for market value or quantity of goods/services supplied

Currency

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

In 2022, revenue from Samsung accounted for 10% or more of our total revenue. To allocate the emissions, we assumed that the requesting member represented 10% of our revenue. Therefore, market value of goods supplied to the requesting member is 10% of our total revenue. We allocated 10% of emissions to this requesting member.

#### Requesting member

Micron Technology, Inc.

#### Scope of emissions

Scope 2

### Scope 2 accounting method

Location-based

## Scope 3 category(ies)

<Not Applicable>

#### Allocation level

Company wide

### Allocation level detail

<Not Applicable>

## Emissions in metric tonnes of CO2e

103.1

# Uncertainty (±%)

10

## Major sources of emissions

Electricity consumption

## Verified

No

#### Allocation method

Allocation based on the market value of products purchased

# Market value or quantity of goods/services supplied to the requesting member

45480000

## Unit for market value or quantity of goods/services supplied

Currency

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

In 2022, revenue from Micron accounted for 10% or more of our total revenue. To allocate the emissions, we assumed that the requesting member represented 10% of our revenue. Therefore, market value of goods supplied to the requesting member is 10% of our total revenue. We allocated 10% of emissions to this requesting member.

#### Requesting member

Samsung Electronics

## Scope of emissions

Scope 2

Scope 2 accounting method

Location-based

#### Scope 3 category(ies)

<Not Applicable>

#### Allocation level

Company wide

#### Allocation level detail

<Not Applicable>

#### Emissions in metric tonnes of CO2e

103.1

#### Uncertainty (±%)

10

#### Major sources of emissions

Electricity consumption

#### Verified

No

#### Allocation method

Allocation based on the market value of products purchased

### Market value or quantity of goods/services supplied to the requesting member

45480000

#### Unit for market value or quantity of goods/services supplied

Currency

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

In 2022, revenue from Samsung accounted for 10% or more of our total revenue. To allocate the emissions, we assumed that the requesting member represented 10% of our revenue. Therefore, market value of goods supplied to the requesting member is 10% of our total revenue. We allocated 10% of emissions to this requesting member.

#### 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	
Managing the different emission	With a global supply chain, it can be difficult for Rambus to collect consistent environmental data in order to accurately allocate emissions. Further climate-related engagement	
factors of diverse and numerous	with suppliers will help overcome these challenges as Rambus can then understand what issues they may also be experiencing in data collection and allocation. Rambus will	
geographies makes calculating total	also be investigating the utilization of CDP requests for our own suppliers to streamline the process and demonstrate the commitment to accurately reporting relevant Scope 3	
footprint difficult	emissions.	

## SC1.4

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

Yes

## SC1.4a

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

Rambus will be investigating the potential use of CDP requests of our own customers to better understand the relevant Scope 3 emissions within the supply chain. By collecting more comprehensive data on supply chain emissions, Rambus will have further insight into how emissions can be allocated for our own customers. This is especially important as an organization that has a significant Scope 3 footprint compared to our Scope 1 and 2 totals.

## 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?

No, I am not providing data

## Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

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

## Please confirm below

I have read and accept the applicable Terms