

C0. Introduction

C0.1

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

Rambus provides industry-leading chips and silicon IP. We believe in making data faster and safer and bring to the table more than 30 years of advanced semiconductor experienced. 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.

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for
Reporting year	January 1 2021	December 31 2021	No	<Not Applicable>

C0.3

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

- Bulgaria
- Canada
- Finland
- 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

(C0.8) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

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(s)	Please explain
Director on board	There is an external director on the board that has oversight of Rambus's CSR and ESG practices.
Board-level committee	The Corporate Governance / Nominating Committee reviews Rambus's CSR and ESG policies, programs, initiatives, and reports. During the reporting year, this committee approved the publishing of Rambus' first ESG report, in which detailed our programs and initiatives related to ESG and climate change.

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 – some meetings	<ul style="list-style-type: none"> Reviewing and guiding strategy Reviewing and guiding major plans of action Reviewing and guiding annual budgets Monitoring implementation and performance of objectives Monitoring and overseeing progress against goals and targets for addressing climate-related issues 	<Not Applicable>	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 on a quarterly basis 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	Criteria used to assess competence of board member(s) on climate-related issues	Primary reason for no board-level competence on climate-related issues	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	No, but we plan to address this within the next two years	<Not Applicable>	Important but not an immediate priority	Management of climate-related issues are important for Rambus, however, this is not an immediate priority as our current board members and committees have been overseeing our ESG practices and programs in a sufficient manner, despite not having specifically called-out competence over climate-related issues.

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 Executive Officer (CEO)	<Not Applicable>	Assessing climate-related risks and opportunities	<Not Applicable>	Annually
Other committee, please specify (ESG Council)	<Not Applicable>	Both assessing and managing climate-related risks and opportunities	<Not Applicable>	Annually
Corporate responsibility committee <i>Referred to within Rambus as CSR/ESG Committee</i>	<Not Applicable>	Both assessing and managing climate-related risks and opportunities	<Not Applicable>	Annually

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).

CEO - The CEO has overall responsibility for Rambus's ESG and CSR programs.

ESG Council - The ESG Council consists of the Senior Vice President (VP) and General Counsel, Senior VP of Human Resources (HR), Senior VP of Global Operations, and a cross-departmental Advisory Council which includes leadership members from Legal, Finance, Workplace and Marketing. Members of the ESG Council meet quarterly 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 business.

CSR/ESG Committee - The CSR/ESG Committee consists of members from the Legal, Finance, Workplace, Marketing, Engineering, Global Operations, HR, Quality, Sales, 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 monthly to provide accurate, cogent and concise reporting on our activities. They are also responsible for developing and presenting an annual CSR work plan.

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	We are in the process of determining a climate target and plan to introduce the target in the next 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. 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	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

Currently, Rambus evaluates climate-related risks as an integral part of our wider risk management frameworks including 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 include climate-related risks. Rather, climate risks are considered as an input when relevant and are integrated into the 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. Climate-related issues are considered in this process when relevant. Risks are incorporated into the risk register, managed by the assigned risk owners, and evaluated periodically.

Through the BCMS framework, climate-related issues are evaluated as an integral part of risk factors that could impact business continuity. Leaders in Operations, HR and Technology Partnerships and Corporate Development ensure that business continuity is integrated into Rambus's business strategy and operations and promote the continual improvement of the BCMS. This leadership team is also supported by a cross-functional working group. This working group is responsible for 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 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, air quality, etc. 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 disaster and operations 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 that our legal risks related to climate change is 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 risks 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 have 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 have 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

(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

Acute physical	Flood (coastal, fluvial, pluvial, groundwater)
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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 has a high risk of coastal flooding and this risk may be exacerbated by sea-level rise. This may lead to disruptions in our operations and potential asset damages.

Time horizon

Medium-term

Likelihood

Very likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

We are unable to provide a financial impact estimate at this time.

Cost of response to risk

Description of response and explanation of cost calculation

We are closely monitoring and responding to potential weather-related events that may disrupt our operations, and have business continuity plans in place to manage these risks. We are unable to provide a cost of response at this moment.

Comment

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical	Heat wave
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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 office and employees in India have a high risk of experiencing intensified heat waves. With extended high temperature in summer, our operating costs could increase due to increased use of air conditioning. We may need to invest in additional resources to ensure the health and safety of our employees.

Time horizon

Short-term

Likelihood

Very likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

We are unable to provide a financial estimate at this moment.

Cost of response to risk

Description of response and explanation of cost calculation

We closely monitor and evaluate the risks of heat waves on our operations and our employees and adjust our plans accordingly. We have a business continuity management system and a health and safety management system to manage the potential damages caused by heat waves. We are unable to provide a cost of response at this moment.

Comment

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation	Enhanced emissions-reporting obligations
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Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Time horizon

Short-term

Likelihood

Very likely

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

We do not have an estimated financial impact at this moment.

Cost of response to risk

100000

Description of response and explanation of cost calculation

We follow the emerging policy and regulations that may impact Rambus closely and respond accordingly. For example, we work with third party consultant to understand and respond to the proposed SEC climate disclosure rules. The cost of response is calculated by cost of third party consulting fees, as well as Rambus internal resources and labor.

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 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 which 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.

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)

33000

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.

Cost to realize opportunity

39000

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. This project, once implemented will result in significant improvement in energy efficiency at this office.

Comment

Identifier

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Energy source

Primary climate-related opportunity driver

Use of new technologies

Primary potential financial impact

Reduced indirect (operating) costs

Company-specific description

We continue to invest in new technologies to improve the energy efficiency of our buildings, reduce reliance on fossil fuel and as a result reduce operating cost. In San Jose, we partnered with Bloom Energy to provide a cleaner, more dependable energy source for the Rambus headquarters building by installing a Bloom solid oxide fuel cell on site to convert fuel to electricity without combustion.

Time horizon

Medium-term

Likelihood

More likely than not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Rambus does not currently calculate or estimate the potential financial impact of switching over to the Bloom Box and Microgrid technologies. The new headquarters was not occupied in 2020 so Rambus will have a better comprehension of the realized savings once consumption data for the property is understood.

Cost to realize opportunity

8000000

Strategy to realize opportunity and explanation of cost calculation

The partnership has already been implemented and the associated cost has been provided above.

Comment

Identifier

Opp3

Where in the value chain does the opportunity occur?

Downstream

Opportunity type

Products and services

Primary climate-related opportunity driver

Development and/or expansion of low emission goods and services

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Our revenues may increase if we are able to continue to provide products with lower energy consumption and therefore lower emissions. Rambus is exploring various ways to reduce the life cycle emissions of our products, from product design to manufacturing processes. 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.

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

We are unable to predict how much our revenue could increase because of our efforts in offering lower emissions products.

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

We continue to engage in regular conversations with our customers and explore options to reduce emissions generated during the life cycle of our products.

Comment

C3. Business Strategy

C3.1

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

Row 1

Transition plan

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

Publicly available transition plan

<Not Applicable>

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

<Not Applicable>

Description of feedback mechanism

<Not Applicable>

Frequency of feedback collection

<Not Applicable>

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

<Not Applicable>

Explain why your organization does not have a 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 in the process of actively working to set goals and targets for 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?

	Use of climate-related scenario analysis to inform strategy	Primary reason why your organization does not use climate-related scenario analysis to inform its 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
Row 1	No, but we anticipate using qualitative and/or quantitative analysis in the next two years	Important but not an immediate priority	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 change 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. This framework outlines the importance of implementing an eco-design policy in our product stewardship process, reducing adverse environmental impacts throughout the life cycle of our products. 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. Throughout 2020 and 2021, 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 will also implement a performance measurement system for suppliers that enables a baseline measurement associated with key sustainability goals and performance indicators. 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, we rolled out programs and management systems to measure, record and report data related to water consumption, waste emissions, packaging materials and energy consumption and GHG emissions in our operations, 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 as well as our office in India. These two locations represent 76% of our scope 2 emissions.

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	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.

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	We expect our emissions to decrease over the next five years as we continue to improve energy efficiency in our offices and invest in renewable energy.	Rambus intends to establish emissions targets in the next two years.

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		
To be implemented*	1	85
Implementation commenced*		
Implemented*	2	801.5
Not to be implemented		

C4.3b

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

Initiative category & Initiative type

Company policy or behavioral change	Other, please specify (Hybrid work policy)
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Estimated annual CO2e savings (metric tonnes CO2e)

81.5

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

Scope 3 category 7: Employee commuting

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

<1 year

Estimated lifetime of the initiative

Ongoing

Comment

Initiative category & Initiative type

Low-carbon energy consumption	Low-carbon electricity mix
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Estimated annual CO2e savings (metric tonnes CO2e)

720

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)

50000

Payback period

No payback

Estimated lifetime of the initiative

6-10 years

Comment

C4.3c

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

Method	Comment
Dedicated budget for energy efficiency	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

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

No

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?

No

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	Yes, a change in boundary	In our previous year's response, we categorized our leased locations under scope 3 leased asset. We made a correction to include emissions from our leased locations in scope 1 and scope 2 in this year's report, as it was determined that these locations fall under our operational control.

C5.1c

(C5.1c) Have your organization's base year emissions been recalculated as result of the changes or errors reported in C5.1a and C5.1b?

	Base year recalculation	Base year emissions recalculation policy, including significance threshold
Row 1	Yes	We have recalculated our base year emissions. We have not yet established a base year emissions recalculation policy as this is the second year we are calculating emissions. However, the change from last year to this year is significant enough to trigger a base year recalculation.

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 include contact 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)

Comment

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
- US EPA Center for Corporate Climate Leadership: Direct Emissions from Mobile Combustion 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)

1547

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

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

Reporting year

Scope 2, location-based

946

Scope 2, market-based (if applicable)

226

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

Emissions in reporting year (metric tons CO2e)

23152.82

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)

9120.63

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)

145.82

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)

657.97

Emissions calculation methodology

Spend-based method

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

0

Please explain

Emissions are calculated based on the total spend with logistics suppliers. It is assumed that downstream transportation is negligible and all spend is associated with upstream transportation.

Waste generated in operations

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

124.21

Emissions calculation methodology

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)

40.14

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)

122.3

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)

0

Emissions calculation methodology

Spend-based method

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

0

Please explain

Emissions are calculated by total spend of logistic services. 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 shipment are shipped from the contract manufacturers. Therefore, downstream transportation emissions is 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)

140216.15

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 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

0.0000076

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

2493

Metric denominator

unit total revenue

Metric denominator: Unit total

328304000

Scope 2 figure used

Location-based

% change from previous year

28

Direction of change

Increased

Reason for change

We have improved our scope 1 and scope 2 emissions in the reporting year and have included emissions that were not calculated in the previous year. The increase is a result of boundary 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	1503.619	IPCC Fifth Assessment Report (AR5 – 100 year)
CH4	0.796	IPCC Fifth Assessment Report (AR5 – 100 year)
N2O	0.731	IPCC Fifth Assessment Report (AR5 – 100 year)
Other, please specify (Cyclopentane & R-600A)	0	IPCC Fifth Assessment Report (AR5 – 100 year)
HFCs	41.358	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	1513.887
India	22.525
Netherlands	10.095

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	1513.088	35.931308	-79.03251
Chapel Hills	0.798	35.9132	-79.0558
Bangalore, India	22.525	12.9716	77.5946
Vught, Netherlands	10.095	51.6533	5.2943

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)
United States of America	238.749	166.582
Canada	37.582	37.582
India	647.534	0
Finland	3.974	3.974
Netherlands	13.01	13.01
Bulgaria	2.854	2.854
Republic of Korea	0.766	0.766
France	0.689	0.689
Taiwan, China	0.844	0.844

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	72.166	0
Hillsboro	52.01	52.01
Bangalore, India	647.534	0
Chapel Hills	85.048	85.048
Agoura Hills	29.524	29.524
Toronto	32.013	32.013
Finland	3.974	3.974
Vught	13.01	13.01
Korea	0.766	0.766
Bulgaria-Sofia	2.719	2.719
Bulgaria-Plodiv	0.135	0.135
France	0.689	0.689
Taiwan	0.844	0.844
Toronto - Analog x	5.568	5.568

C7.9

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

Increased

C7.9a

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

	Change in emissions (metric tons CO2e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	720	Decreased	49.4	For our San Jose office and Bangalore office, we entered into agreement to purchase renewable energy equivalent to 100% of our electricity used since 2021. The emissions reduced are calculated to be 720 metric tons in total for these two locations, which represented 49.4% decrease from previous year's scope 1 and scope 2 emissions of 1456 metric tons.
Other emissions reduction activities		<Not Applicable >		
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	1037	Increased	71.2	We moved our headquarters to San Jose and used bloom energy technology which uses natural gas to generate electricity. These changes along with increased revenue in 2021 compared with 2020 accounted for an increased in emissions of 1,037 metric tons. We are unable to separately account for the changes in physical operating conditions and the changes in output.
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?

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	8093.4	8093.4
Consumption of purchased or acquired electricity	<Not Applicable>	1302.71	1867.78	3170.49
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>	0	<Not Applicable>	0
Total energy consumption	<Not Applicable>	1302.71	11263.89	11263.89

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

We did not use sustainable biomass during the reporting year

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

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

We did not use biomass during the reporting year

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

We did not use renewable fuels during the reporting year

Coal

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

We did not use coal during the reporting year

Oil

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

We did not use oil during the reporting year

Gas

Heating value

HHV

Total fuel MWh consumed by the organization

8090.23

MWh fuel consumed for self-generation of electricity

8090.23

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

Natural gas was used in our San Jose office for the generation of electricity.

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

Heating value

HHV

Total fuel MWh consumed by the organization

3.17

MWh fuel consumed for self-generation of electricity

3.17

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

We have a backup diesel generator in the chapel hills location.

Total fuel

Heating value

HHV

Total fuel MWh consumed by the organization

8093.4

MWh fuel consumed for self-generation of electricity

8093.4

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 is the sum of natural gas and diesel. Both used for generation of electricity.

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	4279	4279	0	0
Heat	0	0	0	0
Steam	0	0	0	0
Cooling	0	0	0	0

C8.2e

(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.

Sourcing method

Green electricity products from an energy supplier (e.g. green tariffs)

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.)

Country/area of low-carbon energy consumption

United States of America

Tracking instrument used

Contract

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

410.92

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

United States of America

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.

Sourcing method

Green electricity products from an energy supplier (e.g. green tariffs)

Energy carrier

Electricity

Low-carbon technology type

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

Country/area of low-carbon energy consumption

India

Tracking instrument used

Contract

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

891.8

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

India

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

Comment

C8.2g

(C8.2g) Provide a breakdown of your non-fuel energy consumption by country.

Country/area

United States of America

Consumption of electricity (MWh)

5386.27

Consumption of heat, steam, and cooling (MWh)

0

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

5386.27

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

India

Consumption of electricity (MWh)

891.79

Consumption of heat, steam, and cooling (MWh)

0

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

891.79

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Canada

Consumption of electricity (MWh)

246.63

Consumption of heat, steam, and cooling (MWh)

0

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

246.63

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Finland

Consumption of electricity (MWh)

42.78

Consumption of heat, steam, and cooling (MWh)

0

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

42.78

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Netherlands

Consumption of electricity (MWh)

35.22

Consumption of heat, steam, and cooling (MWh)

0

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

35.22

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Republic of Korea

Consumption of electricity (MWh)

1.48

Consumption of heat, steam, and cooling (MWh)

0

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

1.48

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Bulgaria

Consumption of electricity (MWh)

6.52

Consumption of heat, steam, and cooling (MWh)

0

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

6.52

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

France

Consumption of electricity (MWh)

12.82

Consumption of heat, steam, and cooling (MWh)

0

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

12.82

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

Country/area

Taiwan, China

Consumption of electricity (MWh)

1.35

Consumption of heat, steam, and cooling (MWh)

0

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

1.35

Is this consumption excluded from your RE100 commitment?

<Not Applicable>

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

Underway but not complete for current reporting year – first year it has taken place

Type of verification or assurance

Limited assurance

Attach the statement

Page/ section reference

Relevant standard

Please select

Proportion of reported emissions verified (%)

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

Underway but not complete for current reporting year – first year it has taken place

Type of verification or assurance

Limited assurance

Attach the statement

Page/ section reference

Relevant standard

Please select

Proportion of reported emissions verified (%)

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: Waste generated in operations

Scope 3: Business travel

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Underway but not complete for current reporting year – first year it has taken place

Type of verification or assurance

Please select

Attach the statement

Page/section reference

Relevant standard

Please select

Proportion of reported emissions verified (%)

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?

Yes

C11.2a

(C11.2a) Provide details of the project-based carbon credits originated or purchased by your organization in the reporting period.

Credit origination or credit purchase

Credit purchase

Project type

Wind

Project identification

6.25 MW Wind Power Generation Project of Salora International Limited (IND)

Verified to which standard

VCS (Verified Carbon Standard)

Number of credits (metric tonnes CO2e)

1179

Number of credits (metric tonnes CO2e): Risk adjusted volume

1179

Credits cancelled

Yes

Purpose, e.g. compliance

Voluntary Offsetting

Credit origination or credit purchase

Credit purchase

Project type

Wind

Project identification

6.25 MW Wind Power Generation Project of Salora International Limited (IND)

Verified to which standard

VCS (Verified Carbon Standard)

Number of credits (metric tonnes CO2e)

1496

Number of credits (metric tonnes CO2e): Risk adjusted volume

1496

Credits cancelled

Yes

Purpose, e.g. compliance

Voluntary Offsetting

Credit origination or credit purchase

Credit purchase

Project type

Energy efficiency: households

Project identification

GS1247 VPA 164 EcoZoom Improved Stove Programme, Uganda (UGA)

Verified to which standard

Gold Standard

Number of credits (metric tonnes CO2e)

2500

Number of credits (metric tonnes CO2e): Risk adjusted volume

2500

Credits cancelled

Yes

Purpose, e.g. compliance

Voluntary Offsetting

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 climate change and carbon information 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.

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 number of percentage of suppliers that shared their GHG data with Rambus.

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.

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

100

% 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

Direct or indirect engagement that could influence policy, law, or regulation that may impact the climate

No

Does your organization have a public commitment or position statement to conduct your engagement activities in line with the goals of the Paris Agreement?

<Not Applicable>

Attach commitment or position statement(s)

<Not Applicable>

Describe the process(es) your organization has in place to ensure that your engagement activities are consistent with your overall climate change strategy

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 voluntary sustainability report

Status

Complete

Attach the document

2021-Rambus-ESG-Report.pdf

Page/Section reference

20-23

Content elements

Strategy
Risks & opportunities
Emissions figures

Comment

C15. Biodiversity

C15.1

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

	Board-level oversight and/or executive management-level responsibility for biodiversity-related issues	Description of oversight and objectives relating to biodiversity	Scope of board-level oversight
Row 1	No, but we plan to have both within the next two years	<Not Applicable>	<Not Applicable>

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 Applicable>

C15.3

(C15.3) Does your organization assess the impact of its value chain on biodiversity?

	Does your organization assess the impact of its value chain on biodiversity?	Portfolio
Row 1	No, but we plan to assess biodiversity-related impacts within the next two years	<Not Applicable>

C15.4

(C15.4) 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	No, we are not taking any actions to progress our biodiversity-related commitments, but we plan to within the next two years	<Not Applicable>

C15.5

(C15.5) 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

C15.6

(C15.6) 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
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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	Business unit 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	3283000000

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

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

154.7

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

3283000000

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

For 2021, 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

Micron Technology, Inc.

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

94.6

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

328300000

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

For 2021, 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

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO₂e

154.7

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

328300000

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

For 2021, 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

Samsung Electronics

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO₂e

94.6

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

328300000

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

For 2021, 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 factors of diverse and numerous geographies makes calculating total footprint difficult	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 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 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 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?

No

SC4.1

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

No, I am not providing data

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I 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