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# Environment

## GHG Emissions

### Gross Scope 1 Emissions

Environment / GHG Emissions / Gross Scope 1 Emissions

Gross global Scope 1 emissions.

Gross Global Scope 1 Emissions:	Totals, in metric tons of carbon dioxide equivalents (mt of CO2-e):
Total Carbon Dioxide (CO2) Emissions:	1828.63
Total Methane (CH4) Emissions:	2.34
Total Nitrous Oxide (N2O) Emissions:	3.4
Total Hydrofluorocarbons (HFCs) Emissions:	18.63
Total Perfluorocarbons (PFCs) Emissions:	0
Total Sulfur Hexafluoride (SF6) Emissions:	0
Total Nitrogen Trifluoride (NF3) Emissions:	0
Total Scope 1 Emissions:	1853
Discuss any change in its emissions from the previous reporting period: The amount of Scope 1 emissions has increased from the previous reporting period. Rambus moved its headquarters to San Jose and partnered with Bloom Energy which uses natural gas to generate electricity in 2021. The amount of natural gas usage increased compared to 2021 and is aligned with the increase of more than 50% in revenue in 2022 from 2021.	
Discuss any differences in emissions reported to other entities: No differences in emissions reported to other entities.	
Discuss the calculation methodology for emissions disclosure: Rambus followed The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard as its methodology for emissions reporting.	
Gross global Scope 1 GHG emissions originated from perfluorinated compounds, in metric tons of carbon dioxide equivalents (mt of CO2-e): NOTE: Semiconductors sector only	0
Percentage of gross global Scope 1 GHG emissions that are covered under an emissions-limiting regulation or program (%): NOTE: Metals & Mining, Iron & Steel Producers, Chemicals, and Electric Utilities & Power Generators sectors only	
Percentage of gross global Scope 1 GHG emissions that are covered under emissions reporting-based regulations (%): NOTE: Electric Utilities & Power Generators sector only	
Breakdown of emissions by mineral or business unit: NOTE: Metals & Mining sector only	

References:

 [CDP Climate Questionnaire 2023](#) Page(s)  
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### Scope 1 Emissions, Targets, and Performance

Environment / GHG Emissions / Scope 1 Emissions, Targets, and Performance

Discussion of long- and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets.

Discuss long- and short-term strategy or plan to manage Scope 1 greenhouse gas (GHG) emissions:  
Rambus's main sources of scope 1 emissions include natural gas used in the San Jose headquarters and generator fuel usage. At our San Jose headquarters, we have partnered with Bloom Energy to generate power through onsite generation using natural gas. We are expecting to further increase the capacity of Bloom Energy to improve the efficiency of the system. As a result, we expect to see increases in our scope 1 emissions as natural gas consumption will increase in the short term. This, however, will result in a reduction in scope 2 emissions. Our potential long-term strategy includes exploring alternative fuels such as biogas, however, the feasibility of such strategy remains uncertain.  
To manage climate-related issues and greenhouse gas emissions, Rambus has established board-level oversight and has codified responsibility to multiple management-level committees and positions. This includes the ESG Council, the CSR/ESG Committee, and the CEO. More details on the governance structure of greenhouse gas management can be found in our annual CDP report.

Discuss emission reduction target(s) and performance analysis:

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Discuss activities and investments required to achieve the plans and/or targets:

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Discuss the scope of strategies, plans, and/or reduction targets, as they relate to different business units, geographies, or emissions sources:

Discuss whether strategies, plans, and/or reduction targets are related to emissions reporting-based programs or regulations:

References:

 [CDP Climate Questionnaire 2023](#)

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## Energy Management

### Energy Use by Source

Environment / Energy Management / Energy Use by Source

(1) Total energy consumed, (2) percentage grid electricity, (3) percentage renewable, (4) total self-generated energy.

Total amount of energy consumed, in gigajoules (GJ):	43574.4
Percentage of energy supplied from grid electricity (%):	27
Percentage of energy supplied from renewable energy (%):	13
Total amount of self-generated energy, in gigajoules (GJ): NOTE: Chemicals and Containers & Packaging sectors only	
Total amount of self-generate energy sold to an electric utility or end-use customer, in gigajoules (GJ): NOTE: Chemicals and Containers & Packaging sectors only	
Total amount of self-generated energy that was renewable energy, in gigajoules (GJ): NOTE: Chemicals sector only	
Trailing twelve-month (TTM) weighted average power usage effectiveness (PUE) for data centers: NOTE: Telecommunication Services and Software, E-commerce, Internet Media and Services, & IT sectors only	
Discuss efforts to reduce energy consumption and/or improve energy efficiency throughout the production processes: NOTE: Chemicals sector only In 2021, Rambus entered into agreements to purchase 100% renewable electricity for our San Jose headquarters and India office. We have plans to increase procurement of renewable energy where feasible. Rambus aims to reduce energy consumption and improve energy efficiency through selection of new leased facilities that meet green certifications such as LEED, WELL, etc. Rambus headquarters also partnered with Bloom Energy to provide on-site generated electricity, utilizing natural gas instead of purchasing from the grid, improving energy efficiency and reducing emissions associated with electricity consumption. In addition, Rambus is also implementing green procurement requirements for energy-efficient equipment.	
Discuss implementation of Green Chemistry Principle 6, Design for Energy Efficiency: NOTE: Chemicals sector only	
Conversion factors for all energy types, including biofuels:	

References:

 [CDP Climate Questionnaire 2023](#)

## Water & Wastewater Management

### Water Use and Sources

Environment / Water & Wastewater Management / Water Use and Sources

(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress.

Total water withdrawn from all sources, in thousands of cubic meters (m³):	1.6
Disclose portions of water supply by source:	Percentage of total use (%):
Water Source: Utility	100
Total water consumed in operations, in thousands of cubic meters (m³):	0
Identify activities that withdraw and consume water in areas with High or Extremely High Baseline Water Stress: Rambus leases an office space in Bangalore, India which is considered a region with high water stress. However, water consumption at the Bangalore office is limited and water is solely used for sanitation, drinking water and building mechanical systems. No process water is used. We anticipate water usage at our other office facilities to be minimal and tied to drinking water, restroom and sink usage.	
Percentage of total water that is withdrawn in areas with High or Extremely High Baseline Water Stress (%):	
Percentage of total water consumed in areas with High or Extremely High Baseline Water Stress (%):	51

Additional Comments

Water consumption from Rambus operations is from drinking water and sanitary use at its leased office locations. There are no industrial process water uses.

References:

 [CDP Water Questionnaire 2023](#) Page(s) 2

## Waste & Hazardous Materials Management

### Hazardous Waste Generated and Recycled

Environment / Waste & Hazardous Materials Management / Hazardous Waste Generated and Recycled  
 Amount of hazardous waste generated, percentage recycled.

Total amount of hazardous waste generated, in metric tons (t):	5.3
Total amount of hazardous waste recycled, in metric tons (t):	0
Percentage of hazardous waste recycled (%):	0
Percentage of hazardous waste generated incinerated (%):	0
Disclose the legal or regulatory framework(s) used to define hazardous waste and recycled hazardous waste, and the amounts defined in accordance with each applicable framework:  Rambus refers to the local regulatory standard to define hazardous waste and recycled hazardous waste. We recycle electronic waste and product prototypes, which is defined as universal waste. For traditional waste, Rambus looks to recycle and compost where this is available in each municipality.	

## Human Capital

### Employee Health & Safety

#### Human Health Hazards

Human Capital / Employee Health & Safety / Human Health Hazards

Discuss efforts to assess, monitor, and reduce exposure of employees to human health hazards, with an emphasis on cleanroom workers in fabrication plants.

Describe efforts to assess, monitor, and reduce exposure of employees to human health hazards:

Rambus assesses, monitors and reduces exposure of employees to health hazards through our Environmental Health, Safety and Energy Management System. The framework of this Management System is based on the principles of ISO 14001:2015 ISO 45001:2018 and ISO 50001: 2018.

More specifically, we have established a Health and Safety Program for Injury and Illness Prevention to prevent accidents and injuries in the workplace. Processes used to identify work hazards and assess risks include routine environmental, health and safety (EHS) inspections of work areas and job hazard evaluations. Designated EHS Champions perform these inspections and evaluations, and results are frequently reviewed during the EHS committee meetings to ensure the effectiveness of the program.

Our employees receive EHS awareness trainings on a regular basis. New hires receive EHS awareness trainings through new hire orientation, and existing personnel (including contractors, as appropriate) receive these training at least annually. Documentation of personnel EHS trainings are maintained in our learning management system.

Since Rambus does not have cleanrooms or fabrication plants, the risk of exposure to chemical hazard is minimal for our own employees. To reduce such risks in the supply chain, Rambus actively engages with our suppliers to ensure that their practices comply with not only [Rambus's vendor code of conduct](#), but also with local laws and the principles outlined in the Responsible Business Alliance (RBA) code of conduct.

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References:

 [Vendor Code of Conduct](#)

#### Monetary Losses - Employee Health and Safety Violations

Human Capital / Employee Health & Safety / Monetary Losses - Employee Health and Safety Violations

Total amount of monetary losses as a result of legal proceedings associated with employee health and safety violations.

Reporting Currency:	USD
Total amount of monetary losses as a result of legal proceedings associated with employee health and safety violations:	0
Describe the nature and context of all monetary losses as a result of legal proceedings:	
Describe any corrective actions implemented as a result of legal proceedings:	

## Employee Engagement, Diversity & Inclusion

### Foreign Employees

Human Capital / Employee Engagement, Diversity & Inclusion / Foreign Employees  
 Percentage of employees that are (1) foreign nationals and (2) located offshore.

Percentage of Employees that are Foreign Nationals (%):	19
Region:	Percentage of Employees Located Offshore (%):
APAC and EMEA	63%
Describe potential risks from recruiting foreign nationals and/or offshore employees:	
Rambus recognizes the risks associated with employee turnover and retention as the loss of the services of key employees could be disruptive to our development efforts, business relationships and strategy. Such risks are described in detail in our <a href="#">10Q</a> and <a href="#">10K</a> reports. Rambus strives to provide a great work environment and align its HR and wellness practices to attract and retain the workforce of the future. For example, employee retention is registered as a risk factor in our Business Continuity Management System (BCMS). Through the BCMS and many other channels, we regularly seek feedback from our employees, evaluate and improve employee satisfaction as well as ensure training programs are in place to develop and maintain our talent pipeline.	
Describe management's approach to addressing the risks identified related to recruiting foreign nationals:	
Rambus strives to provide a great work environment and align its HR and wellness practices to attract and retain the workforce of the future. For example, employee retention is registered as a risk factor in our Business Continuity Management System (BCMS). Through the BCMS and many other channels, we regularly seek feedback from our employees, evaluate and improve employee satisfaction as well as ensure training programs are in place to develop and maintain our talent pipeline.	
Describe management's approach to addressing the additional risks identified related to conducting offshore business activities:	

References:

-  [2023](#)
-  [10K](#)

## Business Model & Innovation

### Product Design & Lifecycle Management

#### Declarable Substances

Business Model & Innovation / Product Design & Lifecycle Management / Declarable Substances  
 Percentage of products by revenue that contain IEC 62474 declarable substances.

Percentage of products sold that contain IEC 62474 declarable substances (%):	0
Describe your approach to managing the use of substances that appear as declarable substance groups or declarable substances in IEC 62474:	
In 2022, to our best knowledge, none of Rambus's products have declarable substances. However, not all substances are tested for.	
Rambus requires all our suppliers to provide documentations including material composition declarations, ICP test reports for RoHS and Halogen substances as well as Safety Data Sheets. Require that all suppliers provide:-Material Composition Declarations-ICP Test Reports for RoHS and Halogen substances-Safety Data Sheets	
Describe any overlap with other regulations on potentially toxic substances: EU RoHS, EU REACH	

#### Processor Energy Efficiency

Business Model & Innovation / Product Design & Lifecycle Management / Processor Energy Efficiency

The entity shall disclose the energy efficiency of its processors based on benchmarked performance per watt of energy consumed for (1) servers, (2) desktops, and (3) laptops, see parameters in guidance notes.

Energy Efficiency of Processors Based on Benchmarked Performance, per Watt of Energy Consumed:		
Servers:	0.75	
Desktops:		
Laptops:		
Energy Efficiency Performance for Other Product Categories:		
Product Category:	Unit of Measure:	Energy Efficiency:
Describe the parameters used to select and test to applicable benchmarks:		
Discuss how your company incorporates product energy efficiency considerations into design for new and emerging usage patterns in all relevant product categories:		

## Supply Chain Management

### Critical Materials Management

Business Model & Innovation / Supply Chain Management / Critical Materials Management

Description of the management of risks associated with the use of critical materials.

<p>Describe your strategic approach to managing risks associated with the use of critical materials in products:  Rambus relies on third parties for a variety of services. For some of these, a third party may be Rambus', sole manufacturer or sole source of certain production materials. Rambus fully recognizes the risks associated with the use of critical materials.  Through the Business Continuity Management System (BCMS) framework, we identify critical services and suppliers, which we manage through supply chain management processes. Mitigation activities for risks associated with the use of critical materials include conducting annual supplier audits, providing clear expectations to suppliers, evaluating supplier performances regularly and building supplier redundancy, to name a few.  More details on such risks are disclosed in Rambus's <a href="#">10Q</a> and <a href="#">10K</a> reports.</p>
<p>Identify critical materials that present a significant risk to your operations, the type of risk(s) they represent, and the strategies used to mitigate risk(s):</p>

References:

-  [2023](#)
- [10K](#)

## Leadership & Governance

### Business Ethics & Competitive Behavior

#### Anti-Competitive Behavior Litigation

Leadership & Governance / Business Ethics & Competitive Behavior / Anti-Competitive Behavior Litigation

Total amount of monetary losses as a result of legal proceedings associated with anti-competitive behavior regulations.

Reporting Currency:	USD	
Total monetary losses incurred during the reporting period as a result of legal proceedings associated with anti-competitive behavior:		0
Monetary losses from adjudicative proceedings in which you were involved, whether before a court, a regulator, an arbitrator, or otherwise:		0
Monetary liabilities to opposing parties or others, including fines and other monetary liabilities incurred during the reporting period as a result of civil actions, regulatory proceedings, and criminal actions brought by any entity:		0
Briefly describe the nature and context of all monetary losses as a result of legal proceedings:		
In 2022, Rambus did not incur any monetary losses as a result of legal proceedings associated with anti-competitive behavior regulations.		
Describe any corrective actions it has implemented as a result of the legal proceedings:		

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## Activity Metrics

### Total Production Metrics

Activity Metrics / Total Production Metrics

Total production.

Total Production of Equipment Manufactured:	73,900,000
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Additional Comments

Total production in chip units.

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### Percentage of Production from Owned Facilities

Activity Metrics / Percentage of Production from Owned Facilities

The entity shall disclose the percentage of production from its own manufacturing facilities.

Percentage of production from own manufacturing facilities (%):	0%
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Additional Comments

Rambus does not have owned manufacturing facilities and outsources all manufacturing or products to 3rd party contract manufacturing firms.