

C0. Introduction

C0.1

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

Micron is a global leader in memory and storage solutions. With a relentless focus on our customers, technology leadership, manufacturing and operational excellence, Micron delivers a rich portfolio of high-performance DRAM, NAND and NOR memory and storage products. Every day, the innovations that our people create fuel the data economy, enabling advances in artificial intelligence (AI) and 5G applications that unleash opportunities — from the data center to the intelligent edge and across the client and mobile user experiences. Micron’s team members live our values: collaboration, customer focus, innovation, people and tenacity. We share a common goal to pursue technology and product innovation and manufacturing excellence for our customers, partners, communities and society. For nearly 45 years and with more than 52,000 patents granted (and growing), Micron has delivered products that have helped transform how the world uses information to enrich life for all.

Continuous improvement of our environmental performance is a long-term commitment and we take a proactive approach to environmental stewardship, occupational health and safety, and high-quality product standards. Compliance with applicable environmental regulations is considered a minimum standard and Micron implements additional programs where appropriate to provide greater environmental performance and protection. An integral part of this mission is Micron’s commitment to environmental compliance and protection that serves our team members, our customers and the communities in which we operate. Continuous improvement of our environmental performance is a long-term component of Micron’s business mission. Visit micron.com/sustainability for more information.

C0.2

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

Reporting year

Start date

January 1 2022

End date

December 31 2022

Indicate if you are providing emissions data for past reporting years

No

Select the number of past reporting years you will be providing Scope 1 emissions data for

<Not Applicable>

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

<Not Applicable>

Select the number of past reporting years you will be providing Scope 3 emissions data for

<Not Applicable>

C0.3

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

- China
- Japan
- Malaysia
- Singapore
- 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
Yes, an ISIN code	US5951121038
Yes, a Ticker symbol	NASDAQ: MU
Yes, a CUSIP number	595112103

C1. Governance

C1.1

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

Yes

C1.1a

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

Position of individual or committee	Responsibilities for climate-related issues
Chief Executive Officer (CEO)	Micron's CEO sits on the Board of Directors and has executive oversight of Micron's sustainability efforts, including climate change.
Board-level committee	Members of the Board's Governance and Sustainability Committee: The Governance and Sustainability Committee of Micron's Board of Directors oversees the company's development and integration of sustainability strategy and regularly reviews sustainability performance, including climate change, supported by other Board committees as needed.
Board-level committee	The Audit Committee of the Board of Directors regularly reviews reporting processes, as well as metrics and financial reporting aspects of climate change reporting.
Board-level committee	The Compensation Committee establishes operational metrics for evaluating performance in fiscal 2022, which includes performance on ESG issues including greenhouse gas ("GHG") emissions.

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	Overseeing and guiding employee incentives Reviewing and guiding strategy Overseeing the setting of corporate targets Monitoring progress towards corporate targets Reviewing and guiding the risk management process	<Not Applicable>	Micron's sustainability and climate-related strategy, action plans, performance objectives, and progress against goals and targets are presented to the Board's Governance and Sustainability committee at least annually. Risk management policies and significant risk findings are reported to the Board's Audit Committee. The Compensation Committee established operational metrics for evaluating performance in fiscal 2022, which includes performance on ESG issues including greenhouse gas ("GHG") emissions.

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	Not assessed	<Not Applicable>	<Not Applicable>	<Not Applicable>

C1.2

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

Position or committee

Other C-Suite Officer, please specify (Executive Vice President, Global Operations)

Climate-related responsibilities of this position

Integrating climate-related issues into the strategy

Setting climate-related corporate targets

Monitoring progress against climate-related corporate targets

Coverage of responsibilities

<Not Applicable>

Reporting line

CEO reporting line

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

Annually

Please explain

Micron's Executive Vice President, Global Operations maintains oversight, review, and approval of the company's operational strategy related to climate change, including setting and monitoring progress against climate-related targets in corporate operations. With company subject matter experts, the Executive Vice President leads review of strategy, targets and progress with the company board of directors at least annually.

Position or committee

Sustainability committee

Climate-related responsibilities of this position

Setting climate-related corporate targets

Monitoring progress against climate-related corporate targets

Assessing climate-related risks and opportunities

Managing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

Operations - COO reporting line

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

Annually

Please explain

Micron's Sustainability Council is a team of senior leaders representing the various aspects of sustainability, including global manufacturing (which accounts for the majority of Micron's scope 1 and scope 2 GHG emissions), supply chain, procurement, sales, and technology development. The Sustainability Council oversees climate and other environmental, social and governance (ESG)-related initiatives and goals in Micron's supply chains, operations and products. Micron has also deployed an Environmental Sustainability operations team focused on managing our scope 1 and 2 emissions, which reports out to senior executives on a periodic basis. The Sustainability Council and Environmental Sustainability operations team drive our climate strategy and focus on how we can improve the impact of our operations on the environment.

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	Yes	

C1.3a

(C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).

Entitled to incentive

Corporate executive team

Type of incentive

Monetary reward

Incentive(s)

Bonus - % of salary

Performance indicator(s)

Progress towards a climate-related target

Incentive plan(s) this incentive is linked to

Short-Term Incentive Plan

Further details of incentive(s)

10% of the company incentive (bonus) pay for Senior executives and all other employees is based on our sustainability performance. This includes achievement of steps to reduce greenhouse gas emissions.

Explain how this incentive contributes to the implementation of your organization's climate commitments and/or climate transition plan

Our compensation philosophy for executive officers is based on the belief that the interests of our executives should be closely aligned with our long-term performance and sustainable value creation for our shareholders. To support this philosophy, a large portion of each executive officer's target total direct compensation is "at risk" and linked to the accomplishment of specific financial and operational performance goals that we expect will lead to increased long-term value creation for our shareholders. The Compensation Committee chose these metrics and their linkage to our business and results of operations because they believe a focus on sustainability benefits our team members, communities, and other stakeholders.

C2. Risks and opportunities

C2.1

(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities?

Yes

C2.1a

(C2.1a) How does your organization define short-, medium- and long-term time horizons?

	From (years)	To (years)	Comment
Short-term	0	1	Time horizons used for enterprise risk assessment when evaluating likelihood
Medium-term	1	5	Time horizons used for enterprise risk assessment when evaluating likelihood
Long-term	5	10	Time horizons used for enterprise risk assessment when evaluating likelihood

C2.1b

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

A substantive strategic impact on Micron's business is one which directly and significantly affects the company's markets or ability to manufacture its products. One indicator used to define substantive strategic impact is customer ratings of Micron performance, which frequently include climate change indicators.

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

Micron works to better understand and address sustainability and climate-related risks and opportunities through collaboration among our sustainability, environmental health and safety, and responsible sourcing programs, along with our various risk management organizations.

Current efforts include improving operational energy and water efficiency; working toward our long-term goals and targets for energy, emissions, water and waste; and monitoring regulatory, customer, investor and other stakeholder expectations.

Micron's goal is to integrate risk management practices companywide to improve decision-making in governance, strategy, objective-setting and daily operations. We do this by providing tools and knowledge, facilitating open global communication and monitoring continuously. Micron has a network of risk management teams operating across the company, including in our environment health & safety (EHS), information technology (IT), business continuity, global quality management, and risk advisory services groups.

Our ERM organization accumulates key risk information from the executive risk committee, made up of select company executives, along with risk assessments performed by other teams. These results are regularly presented to the executive risk committee, the audit committee of the board of directors, and Micron's full board of directors for consideration.

Climate-related risks and opportunities are identified and prioritized by EHS and Sustainability, considering criteria that include business continuity, impact to brand/reputation, relevance to regional operations, alignment with Micron business strategy, impact to communities, and compliance considerations. Micron routinely monitors greenhouse gas and energy efficiency regulations and policy to understand and evaluate impacts to, and opportunities for, our business, customers, and the communities where we operate.

In 2019, Micron completed a climate-related risk assessment, which included "business as usual" and 2-degree scenarios for 2020, 2030, and 2040. We conducted an initial updated assessment in 2022, and continue to review potential risks.

One example of our risk/opportunity identification and management process includes the risk of enhanced reporting obligations. The likelihood of this occurring and how impactful it would be without treatment is evaluated to determine the inherent risk and then treatment details, including who, what, and when are determined and tracked to closure. The treatment for this example includes monitoring greenhouse gas, energy efficiency and reporting regulations and policy to understand and evaluate impacts to, and opportunities for, our business, customers, and the communities where we operate. When applicability is determined, an action plan is developed and monitored through execution. Such an assessment is done annually (at a minimum; for example, reviewing sustainability reporting requirements and updated climate-related disclosure standards), and reviewed for short, medium, and potential long-term impact (for example, new ISSB S1 and S2 reporting standards have a potential short-to-medium-term impact).

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	Micron routinely monitors greenhouse gas and energy efficiency regulations and policy (such as carbon taxes) to understand and evaluate impacts to, and opportunities for, our business, customers, and the communities where we operate. This is managed through an enterprise-wide EHS data management system that identifies and monitors compliance with applicable regulations.
Emerging regulation	Relevant, always included	Our Global EHS & Sustainability, Legal, Product Compliance, and Government Affairs organizations monitor emerging legislative and regulatory programs, such as carbon taxes and product energy efficiency regulations, on a global level to understand and evaluate impacts to, and opportunities for, our business, customers, and the communities where we operate.
Technology	Relevant, always included	Micron low power devices support sustainability and climate change initiatives in our customers' supply chain. Failure to meet such customer specifications might contribute to reduced demand for products.
Legal	Relevant, always included	Micron routinely monitors legal requirements related to greenhouse gases (such as legal limits or reporting requirements), energy efficiency regulations, and other issues to understand and evaluate impacts to, and opportunities for, our business, customers, and the communities where we operate. This is managed through an enterprise-wide EHS data management system that identifies and monitors compliance with applicable regulations.
Market	Relevant, always included	Micron routinely monitors market trends and customer demand related to improved product power consumption and greenhouse gas performance to understand and evaluate impacts to our business and our customers and ensure that we continue to address customer expectations and win business.
Reputation	Relevant, always included	Micron's performance on climate change may affect the company's reputation. We take our reputation with local communities, our employees, regulators and customers very seriously and reputational consideration is incorporated into our risk criteria.
Acute physical	Relevant, always included	Micron considers risks arising from extreme weather events, such as cyclones, hurricanes, or floods in our business continuity program. These risks may increase as a result of climate change.
Chronic physical	Relevant, always included	Micron included chronic issue impacts on our facilities (such as availability of water), workforce (such as health and productivity), and communities such as sea level rise, increased temperatures, and changes in water availability in our risk assessments.

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

Current regulation	Carbon pricing mechanisms
--------------------	---------------------------

Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Micron operates in some countries where carbon taxes and greenhouse gas regulations apply or are under discussion, specifically Singapore, where the Carbon Pricing Act sets a tax of SGD \$5 per tonne CO2e on a percentage of facility GHG emissions from 2019 to 2023. The estimated cost of SGD \$8.5 million (approximately USD \$6.2 million at average 2022 exchange rate). This would be a cost impact on our operations and may require additional reporting, planning, and/or time from designated personnel. Note that in CY2022, the total estimated tax is \$6.2 million USD. Please refer to section C11 "Carbon Pricing" for details.

Time horizon

Short-term

Likelihood

Virtually certain

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)

6200000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

This is an annual potential future financial cost, calculated by multiplying SGD \$5 cost/tCO2e established by the Singapore Carbon Pricing Act by the July 2023 exchange rate and by 80% of Micron's current annual MTCO2e scope 1 emissions in Singapore.

Cost of response to risk

Description of response and explanation of cost calculation

Micron is taking action on our greenhouse gas emissions as a company in a way that is responsive to this risk. However, these actions are taken for a range of reasons not specifically related to this risk, and are not included in the cost of response to this risk.

Comment

Micron routinely monitors greenhouse gas and energy efficiency regulations and policy to understand and evaluate impacts to, and opportunities for, our business, customers, and the communities where we operate. Management activities are embedded into business-as-usual activities within the business and are therefore not additional.

Identifier

Risk 6

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical	Cyclone, hurricane, typhoon
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Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

In the past few years intensity, frequency and variability of typhoons have been increasing, particularly in Asian countries where Micron operates. These events have caused temporary power failures, short-term business interruptions, and required contingencies to ensure water availability. Impact has been controlled and is considered manageable.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Unknown

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

Micron realizes that there is potential for financial impact, the assessment of which is subject to a number of dynamic variables.

Cost of response to risk

Description of response and explanation of cost calculation

Micron routinely monitors conditions and potential impacts to, and opportunities for, our business, customers, and the communities where we operate. Management activities are embedded into business-as-usual activities within the business and are therefore not additional.

Comment

Identifier

Risk 4

Where in the value chain does the risk driver occur?

Downstream

Risk type & Primary climate-related risk driver

Market	Changing customer behavior
--------	----------------------------

Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

As awareness of sustainability and climate change increases, the design of new products with higher performance and reduced environmental impact (such as increased energy efficiency in memory and storage products) could be important to maintaining and increasing our role in customers' portfolio.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Unknown

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

Micron realizes that there is potential for financial impact, the assessment of which is subject to a number of dynamic variables.

Cost of response to risk

Description of response and explanation of cost calculation

Micron routinely monitors conditions and potential impacts to, and opportunities for, our business, customers, and the communities where we operate. Management activities are embedded into business-as-usual activities within the business and are therefore not additional.

Comment

Identifier

Risk 5

Where in the value chain does the risk driver occur?

Downstream

Risk type & Primary climate-related risk driver

Market	Changing customer behavior
--------	----------------------------

Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Corporate strategies for sustainability and climate change may become critical indicators for customers and investors. If this happens and Micron's corporate performance on these indicators is seen as insufficient, customers may reduce business with the company.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Unknown

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

Micron realizes that there is potential for financial impact, the assessment of which is subject to a number of dynamic variables.

Cost of response to risk

Description of response and explanation of cost calculation

Micron routinely monitors conditions and potential impacts to, and opportunities for, our business, customers, and the communities where we operate. Management activities are embedded into business-as-usual activities within the business and are therefore not additional.

Comment

Identifier

Risk 7

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Chronic physical	Changing temperature (air, freshwater, marine water)
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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

Reduced revenue from decreased production capacity (e.g. employee productivity, equipment degradation, transportation difficulties). Temperature extremes increase cooling costs which can be nonlinear with temperatures; decrease productivity by contributing to heat-related illnesses, increase equipment degradation, and negatively affect transportation infrastructure.

Time horizon

Medium-term

Likelihood

Very likely

Magnitude of impact

Unknown

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

Micron realizes that there is potential for financial impact, the assessment of which is subject to a number of dynamic variables.

Cost of response to risk

Description of response and explanation of cost calculation

Micron routinely monitors conditions and potential impacts to, and opportunities for, our business, customers, and the communities where we operate. Management activities are embedded into business-as-usual activities within the business and are therefore not additional.

Comment

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation	Carbon pricing mechanisms
---------------------	---------------------------

Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Micron operates in some countries where carbon taxes and greenhouse gas regulations apply or are under discussion, specifically Singapore, where the Carbon Pricing Act establishes that the carbon tax rate will be increased to SGD \$25 per tonne CO2e , SGD \$45 per tonne in 2026 and 2027, with a goal to reach SGD \$50-80 per tonne by 2030. With Micron's approximately 1.8 million metric tons of Scope 1 emissions annually in Singapore, this has an estimated potential annual cost of SGD \$36 million (US\$27 million) in 2024-5, SGD \$65 million (US\$49 million) annually in 2026-7, and between SGD \$72-115 million (US\$54-87 million) annually by 2030 onward if emissions remain constant and are not reduced per Micron's new climate goals. This is likely to have a cost impact on our operations and may require additional reporting, planning, and/or time from designated personnel.

Time horizon

Long-term

Likelihood

Very likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

27000000

Potential financial impact figure – maximum (currency)

87000000

Explanation of financial impact figure

This is an annual potential financial cost, calculated by multiplying expected cost/tCO2e minimum (SGD \$25 in 2024-5) and potential maximum (SGD \$80 by 2030) established by the Singapore Carbon Pricing Act by the July 2022 exchange rate and by 80% of Micron's current annual Singapore tCO2e emissions.

Cost of response to risk

Description of response and explanation of cost calculation

Micron is taking action on our greenhouse gas emissions as a company in a way that is responsive to this risk. However, these actions are taken for a range of reasons not specifically related to this risk, and are not included in the cost of response to this risk. Overall management activities are embedded into business-as-usual activities within the business and are therefore not additional.

Comment

Micron routinely monitors greenhouse gas and energy efficiency regulations and policy to understand and evaluate impacts to, and opportunities for, our business, customers, and the communities where we operate.

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Primary potential financial impact

Decreased revenues due to reduced production capacity

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Micron has manufacturing and other operations in locations subject to natural occurrences and possible climate changes, such as drought or other severe and variable weather resulting in increased costs, or disruptions to our manufacturing operations or those of our suppliers or customers. In addition, climate change may pose physical risks to our manufacturing facilities or our suppliers' facilities, including increased extreme weather events that could result in supply delays or disruptions. If production is disrupted for any reason, manufacturing yields may be adversely affected, or we may be unable to meet our customers' requirements and they may purchase products from other suppliers. This could result in a significant increase in manufacturing costs, loss of revenue, or damage to customer relationships, any of which could have a material adverse effect on our business, results of operations, or financial condition.

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

Micron realizes that there is potential for financial impact, the assessment of which is subject to a number of dynamic variables.

Cost of response to risk**Description of response and explanation of cost calculation**

Micron routinely monitors conditions and potential impacts to, and opportunities for, our business, customers, and the communities where we operate. Management activities are embedded into business-as-usual activities within the business and are therefore not additional.

Comment

Micron also engages in local water restoration to mitigate its water risks. As an example, in Taiwan we have for many years been a steward of the Nankan and Dongmen rivers in Taoyuan, Taiwan, where in 2022 we donated \$5 million for ammonia nitrogen removal and water quality improvement in the two rivers. We also donated nearly \$10 million to help fund a dredging project that will restore storage capacity to the Shihmen Reservoir, the region's primary water source.

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

Use of more efficient production and distribution processes

Primary potential financial impact

Reduced indirect (operating) costs

Company-specific description

Micron has a year-on-year track record of implementing projects to improve the energy efficiency of our tools and systems, as well as replacing less efficient equipment with new equipment with higher energy efficiency when appropriate. Identified projects include:

- Manufacturing process efficiency improvement.
- HVAC optimization/upgrade to high efficiency including pressure optimization, make up air unit improvement, and exhaust balance/optimization.
- Replacement of lighting from fluorescent to LED light and installation of light sensors.

- Mechanical upgrades to higher efficiency motors, implementation of advanced control strategies, and optimization.
- Compressed Air system optimization including leak reduction, consumption optimization.
- Use of free cooling during winter season.
- Replacement of old equipment with high efficiency systems, including chillers, pumps, motors, fans.
- Various projects including mechanical upgrades, implementation of advanced control strategies, and optimization.
- Optimization of utilities consumption (power, CDA, heat).

We have taken this opportunity across our manufacturing operations to implement improvements that may have a substantive financial or strategic impact on our business.

Time horizon

Short-term

Likelihood

Very 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

Potential financial impact has not yet been determined

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

Micron continuously identifies energy saving projects and evaluates cost/benefit to allocate necessary resources (capital expenditures).

Comment

Identifier

Opp2

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

A significant portion of Micron's revenue comes from low-carbon (energy efficient) products, such as our low-power LPDDR5 DRAM memory product (see question C4.5a). Climate change regulations and customer interest in these products should maintain or increase the demand for these products and potentially drive innovation in the design of new products.

Time horizon

Short-term

Likelihood

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

Potential financial impact has not yet been determined.

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

Micron routinely monitors market trends in terms of power consumption as well as other conditions and potential impacts to understand and evaluate impacts to, and opportunities for, our business, our customers, and the communities where we operate. These and other management activities are embedded into business-as-usual activities and are not considered an additional cost specific to this opportunity.

Comment

Identifier

Opp3

Where in the value chain does the opportunity occur?

Downstream

Opportunity type

Markets

Primary climate-related opportunity driver

Access to new markets

Primary potential financial impact

Increased revenues through access to new and emerging markets

Company-specific description

The design of low power products could create an opportunity to gain new markets and customers. Improvements in our climate change strategy could be reflected in our customer's scorecards and might increase the demand for our products.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

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

Potential financial impact has not yet been determined

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

Micron routinely monitors market trends in terms of power consumption as well as other conditions and potential impacts to understand and evaluate impacts to, and opportunities for, our business, our customers, and the communities where we operate. These and other management activities are embedded into business-as-usual activities and are not considered an additional cost specific to this opportunity.

Comment

C3. Business Strategy

C3.1

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

Row 1

Climate transition plan

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

Publicly available climate transition plan

<Not Applicable>

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

<Not Applicable>

Description of feedback mechanism

<Not Applicable>

Frequency of feedback collection

<Not Applicable>

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

<Not Applicable>

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

Micron’s transition plan includes specific goals that align with the objectives of the Paris agreement on climate change, including a net zero target for our scope 1&2 emissions by 2050 and 42% reduction in scope 1 emissions by 2030 vs. 2020. Our scope 2 alignment with a 1.5 degree C world is challenged by availability of renewable energy in certain operating locations, and we have a scope 3 target under development. We continue to review and strengthen our approach over time, including evaluation of how we might fully align with a 1.5 degree C world in the future.

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	Yes, qualitative	<Not Applicable>	<Not Applicable>

C3.2a

(C3.2a) Provide details of your organization’s use of climate-related scenario analysis.

Climate-related scenario	Scenario analysis coverage	Temperature alignment of scenario	Parameters, assumptions, analytical choices
Physical climate scenarios	RCP 4.5 Company-wide	<Not Applicable>	Micron’s strategy, particularly its goals set in May 2022 to achieve net zero GHG emissions in scope 1 and 2 by 2050 as well as a 42% absolute reduction in scope 1 GHG emissions by 2030 from a 2020 baseline, has been informed by the Paris Agreement’s objective to limit global temperature rise to no more than 1.5°C. Additionally, the company has sought inputs on the potential impacts of climate change resulting from warming under business-as-usual, 2°C and 1.5°C scenarios.

C3.2b

(C3.2b) Provide details of the focal questions your organization seeks to address by using climate-related scenario analysis, and summarize the results with respect to these questions.

Row 1

Focal questions

Results of the climate-related scenario analysis with respect to the focal questions

C3.3

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

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	Climate-related risks and opportunities have influenced Micron's product and service strategy primarily as a result of existing and anticipated demand for low-power, energy-efficient memory and storage products. Low-power dynamic random access memory (LPDRAM) is an important product for many of our customers manufacturing servers, computers, cell phones, and other electronic equipment. We currently offer these products to customers and communicate with them about its benefits, and continue to invest in R&D to improve these products (see investment in R&D below) over the next several years.
Supply chain and/or value chain	Yes	Climate-related risks and opportunities have influenced Micron's supply chain strategy in two primary ways. First, our supply chain Scope 3 emissions are significant and suppliers have climate-related risks that may affect Micron's own business, so we expect our suppliers to consider these risks, report to CDP, and supply basic information about emissions, management, and risks to Micron. Second, Micron's capital equipment suppliers play a significant role in Micron's own energy use and emissions through the efficiency of the equipment they sell to Micron, and we expect these suppliers to develop and sell increasingly efficient equipment that helps Micron achieve our environmental goals. In both of these cases, we are expanding communication about these expectations to suppliers in CY2023, gathering relevant information, and evaluating suppliers based on their performance on these criteria. This evaluation has been expanded in CY2022-23 to include establishment of carbon reduction projects, and is included in Micron procurement decisions.
Investment in R&D	Yes	Micron's investments in R&D are influenced by climate-related risks and opportunities in two key areas: manufacturing process development, and product development. In manufacturing processes, Micron's Technology Development (TD) function establishes the processes used to manufacture future generations of Micron products. TD is investing in reducing GHG emissions and increasing energy efficiency of the processes that are being researched for high-volume manufacturing in the medium term (next 3-5 years) and long term (5 years plus). In product development, TD is investing in developing low-power memory and storage products to improve energy efficiency of electronic devices including computers, cell phones, and servers manufactured by our customers in the medium term (next 3-5 years) and long term (5 years plus).
Operations	Yes	Climate-related risks and opportunities have encouraged Micron to focus our operations strategy on developing and implementing significant environmental goals. Specifically, we have set medium term long-term (5 years plus) targets for a 42% absolute reduction in scope 1&2 GHG emissions by 2030 (vs. 2020), 100% renewable energy use in the U.S. by the end of 2025, and aspirational goals for a net zero scope 1&2 GHG emissions by 2050 100% renewable energy use where available, 100% water reuse, recycling, and restoration, and zero waste sent to landfill. We are supporting these goals with significant capital investment amounting to about \$1 billion by 2028.

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	Capital expenditures	Situation: Micron's performance regarding climate change, including our emissions reduction goals and performance as well as management of risks related to materials and water availability, influences growing number of Micron customers, investors, team members in their decisions to buy from, invest in, or work for the company. Task: In 2019, Micron determined that the company should take additional action so that we can continue to meet stakeholder expectations regarding emissions reduction and climate risk management. Action: In early 2020, Micron decided to invest about \$1 billion over the next 5-7 years toward achieving a set of ambitious environmental goals. These long-term aspirational goals include a 40% absolute reduction in Scope 1&2 GHG emissions; adoption of 100% renewable energy where available; 100% water reuse, recycling, and restoration; and zero waste to landfill. Result: As a result of the decision to allocate capital expenditures toward environmental goals, Micron has been able to develop a prioritized list of investment projects that enable us to achieve a set of medium-term environmental targets by the end of 2023, including emissions reduction, energy efficiency, and water reuse projects designed to support the company's time-bound goals of a 55% reduction in Scope 1&2 emissions per unit of production (vs CY18 base) by end of CY22, 75% reduction in Scope 1&2 emissions per unit of production (vs CY18 base) by end of CY30, and 100% renewable energy adoption in the U.S. by end of CY25.

C3.5

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

	Identification of spending/revenue that is aligned with your organization's climate transition	Indicate the level at which you identify the alignment of your spending/revenue with a sustainable finance taxonomy
Row 1	Please select	<Not Applicable>

C4. Targets and performance

C4.1

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

- Absolute target
- Intensity target

C4.1a

(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

Target reference number
Abs 1

Is this a science-based target?

Yes, we consider this a science-based target, but we have not committed to seek validation of this target by the Science Based Targets initiative within the next two years

Target ambition

1.5°C aligned

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2 accounting method

<Not Applicable>

Scope 3 category(ies)

<Not Applicable>

Base year

2020

Base year Scope 1 emissions covered by target (metric tons CO2e)

3281888

Base year Scope 2 emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target (metric tons CO2e)

<Not Applicable>

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

3281888

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

<Not Applicable>

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

<Not Applicable>

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

Target year

2030

Targeted reduction from base year (%)

42

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

1903495.04

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

3478449

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

3478449

Does this target cover any land-related emissions?

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

% of target achieved relative to base year [auto-calculated]

-14.260156987453

Target status in reporting year

New

Please explain target coverage and identify any exclusions

42% absolute reduction in scope 1 emissions by CY30 from the CY20 baseline.

This new goal is a first milestone that supports objectives of the Paris Agreement as we work toward targets to reach net zero GHG emissions in our operations (scope 1) and purchased energy (scope 2) by 2050.

These goals complement our target to achieve 100% renewable energy for existing operations in the U.S. by the end of 2025. They will also contribute to our original long-term climate target to reduce GHG emissions intensity by 75% per unit of production by CY30, compared with a CY18 baseline.

Plan for achieving target, and progress made to the end of the reporting year

Actions included in the plan for achieving the target: reducing direct emissions through efficient abatement of process GHGs and a transition to low global-warming-potential heat transfer fluid, reduction of indirect emissions through design of energy-efficient facilities, smart-controlled systems and transition to renewable electricity where available.

Progress in CY22: 6% increase in absolute scope 1 emissions in CY22 compared to CY20 due to production growth and construction. Yet, we started the execution of identified actions that mitigated the expected increase, and reduced annual increase to only 0.5% between CY21-CY22.

List the emissions reduction initiatives which contributed most to achieving this target

<Not Applicable>

Target reference number

Abs 2

Is this a science-based target?

Yes, we consider this a science-based target, but we have not committed to seek validation of this target by the Science Based Targets initiative within the next two years

Target ambition

1.5°C aligned

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

<Not Applicable>

Base year

2020

Base year Scope 1 emissions covered by target (metric tons CO2e)

3281887

Base year Scope 2 emissions covered by target (metric tons CO2e)

3859402

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target (metric tons CO2e)

<Not Applicable>

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

7141289

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

<Not Applicable>

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

Target year

2050

Targeted reduction from base year (%)

100

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

0

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

3478449

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

4132206

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

7610655

Does this target cover any land-related emissions?

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

% of target achieved relative to base year [auto-calculated]

-6.5725669413463

Target status in reporting year

Underway

Please explain target coverage and identify any exclusions

This target covers Micron's global scope 1 and scope 2 emissions.

Plan for achieving target, and progress made to the end of the reporting year

In addition to the steps to achieve ABS 1 target, we are expanding use of renewable energy globally, and signed several agreements in 2022 to increase company renewable energy use globally

List the emissions reduction initiatives which contributed most to achieving this target

<Not Applicable>

C4.1b

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

Target reference number

Int 1

Is this a science-based target?

No, and we do not anticipate setting one in the next two years

Target ambition

<Not Applicable>

Year target was set

2020

Target coverage

Company-wide

Scope(s)

Scope 1
Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

<Not Applicable>

Intensity metric

Metric tons CO2e per unit of production

Base year

2018

Intensity figure in base year for Scope 1 (metric tons CO2e per unit of activity)**Intensity figure in base year for Scope 2 (metric tons CO2e per unit of activity)****Intensity figure in base year for Scope 3, Category 1: Purchased goods and services (metric tons CO2e per unit of activity)**

<Not Applicable>

Intensity figure in base year for Scope 3, Category 2: Capital goods (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 5: Waste generated in operations (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 6: Business travel (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 7: Employee commuting (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 8: Upstream leased assets (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 10: Processing of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 11: Use of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 13: Downstream leased assets (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 14: Franchises (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 15: Investments (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Other (upstream) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Other (downstream) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for total Scope 3 (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for all selected Scopes (metric tons CO2e per unit of activity)

0.000101

% of total base year emissions in Scope 1 covered by this Scope 1 intensity figure

100

% of total base year emissions in Scope 2 covered by this Scope 2 intensity figure

100

% of total base year emissions in Scope 3, Category 1: Purchased goods and services covered by this Scope 3, Category 1: Purchased goods and services intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 2: Capital goods covered by this Scope 3, Category 2: Capital goods intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) covered by this Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution covered by this Scope 3, Category 4: Upstream transportation and distribution intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 5: Waste generated in operations covered by this Scope 3, Category 5: Waste generated in operations intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 6: Business travel covered by this Scope 3, Category 6: Business travel intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 7: Employee commuting covered by this Scope 3, Category 7: Employee commuting intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 8: Upstream leased assets covered by this Scope 3, Category 8: Upstream leased assets intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution covered by this Scope 3, Category 9: Downstream transportation and distribution intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 10: Processing of sold products covered by this Scope 3, Category 10: Processing of sold products intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 11: Use of sold products covered by this Scope 3, Category 11: Use of sold products intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products covered by this Scope 3, Category 12: End-of-life treatment of sold products intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 13: Downstream leased assets covered by this Scope 3, Category 13: Downstream leased assets intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 14: Franchises covered by this Scope 3, Category 14: Franchises intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 15: Investments covered by this Scope 3, Category 15: Investments intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Other (upstream) covered by this Scope 3, Other (upstream) intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Other (downstream) covered by this Scope 3, Other (downstream) intensity figure

<Not Applicable>

% of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this total Scope 3 intensity figure

<Not Applicable>

% of total base year emissions in all selected Scopes covered by this intensity figure

100

Target year

2022

Targeted reduction from base year (%)

55

Intensity figure in target year for all selected Scopes (metric tons CO2e per unit of activity) [auto-calculated]

0.00004545

% change anticipated in absolute Scope 1+2 emissions

% change anticipated in absolute Scope 3 emissions

Intensity figure in reporting year for Scope 1 (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 2 (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 1: Purchased goods and services (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 2: Capital goods (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 5: Waste generated in operations (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 6: Business travel (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 7: Employee commuting (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 8: Upstream leased assets (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 10: Processing of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 11: Use of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 13: Downstream leased assets (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 14: Franchises (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 15: Investments (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Other (upstream) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Other (downstream) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for total Scope 3 (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for all selected Scopes (metric tons CO2e per unit of activity)

0.0000485

Does this target cover any land-related emissions?

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

% of target achieved relative to base year [auto-calculated]

94.5094509450945

Target status in reporting year

Expired

Please explain target coverage and identify any exclusions

Target: reduce total Scope 1 and Scope 2 (market-based) emissions by 55% per unit of production by 2022 from 2018 levels. We achieved 52% intensity reduction. Micron plans to reduce the intensity indicator through the implementation of multiple emission reduction activities, like renewable energy procurement and reduction of process related emissions. In CY22, Micron continued to implement new energy savings projects, actions to increase Heat Transfer Fluids (coolants) use efficiency, installed additional abatement systems for process greenhouse gases by realizing Scope 1 and Scope 2 emissions reduction detailed in section 4.3b.

Plan for achieving target, and progress made to the end of the reporting year

<Not Applicable>

List the emissions reduction initiatives which contributed most to achieving this target

<Not Applicable>

Target reference number

Int 2

Is this a science-based target?

No, and we do not anticipate setting one in the next two years

Target ambition

<Not Applicable>

Year target was set

2020

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

<Not Applicable>

Intensity metric

Metric tons CO2e per unit of production

Base year

2018

Intensity figure in base year for Scope 1 (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 2 (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 1: Purchased goods and services (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 2: Capital goods (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 5: Waste generated in operations (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 6: Business travel (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 7: Employee commuting (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 8: Upstream leased assets (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 10: Processing of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 11: Use of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 13: Downstream leased assets (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 14: Franchises (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Category 15: Investments (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Other (upstream) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for Scope 3, Other (downstream) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for total Scope 3 (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in base year for all selected Scopes (metric tons CO2e per unit of activity)

0.000101

% of total base year emissions in Scope 1 covered by this Scope 1 intensity figure

% of total base year emissions in Scope 2 covered by this Scope 2 intensity figure

% of total base year emissions in Scope 3, Category 1: Purchased goods and services covered by this Scope 3, Category 1: Purchased goods and services intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 2: Capital goods covered by this Scope 3, Category 2: Capital goods intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) covered by this Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution covered by this Scope 3, Category 4: Upstream transportation and distribution intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 5: Waste generated in operations covered by this Scope 3, Category 5: Waste generated in operations intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 6: Business travel covered by this Scope 3, Category 6: Business travel intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 7: Employee commuting covered by this Scope 3, Category 7: Employee commuting intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 8: Upstream leased assets covered by this Scope 3, Category 8: Upstream leased assets intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution covered by this Scope 3, Category 9: Downstream transportation and distribution intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 10: Processing of sold products covered by this Scope 3, Category 10: Processing of sold products intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 11: Use of sold products covered by this Scope 3, Category 11: Use of sold products intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products covered by this Scope 3, Category 12: End-of-life treatment of sold products intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 13: Downstream leased assets covered by this Scope 3, Category 13: Downstream leased assets intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 14: Franchises covered by this Scope 3, Category 14: Franchises intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Category 15: Investments covered by this Scope 3, Category 15: Investments intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Other (upstream) covered by this Scope 3, Other (upstream) intensity figure

<Not Applicable>

% of total base year emissions in Scope 3, Other (downstream) covered by this Scope 3, Other (downstream) intensity figure

<Not Applicable>

% of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this total Scope 3 intensity figure

<Not Applicable>

% of total base year emissions in all selected Scopes covered by this intensity figure

100

Target year

2030

Targeted reduction from base year (%)

75

Intensity figure in target year for all selected Scopes (metric tons CO2e per unit of activity) [auto-calculated]

0.00002525

% change anticipated in absolute Scope 1+2 emissions

% change anticipated in absolute Scope 3 emissions

Intensity figure in reporting year for Scope 1 (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 2 (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 1: Purchased goods and services (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 2: Capital goods (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 5: Waste generated in operations (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 6: Business travel (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 7: Employee commuting (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 8: Upstream leased assets (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 10: Processing of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 11: Use of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 13: Downstream leased assets (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 14: Franchises (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Category 15: Investments (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Other (upstream) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for Scope 3, Other (downstream) (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for total Scope 3 (metric tons CO2e per unit of activity)

<Not Applicable>

Intensity figure in reporting year for all selected Scopes (metric tons CO2e per unit of activity)

0.0000485

Does this target cover any land-related emissions?

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

% of target achieved relative to base year [auto-calculated]

69.3069306930693

Target status in reporting year

Underway

Please explain target coverage and identify any exclusions

Target: reduce total Scope 1 and Scope 2 (market-based) emissions by 75% per unit of production by 2030 from 2018 levels.

Micron plans to reduce the intensity indicator through the implementation of multiple emission reduction activities, like renewable energy procurement and reduction of process related emissions. In CY22, Micron continued to implement new energy savings projects, actions to increase Heat Transfer Fluids (coolants) use efficiency, installed additional abatement systems for process greenhouse gases by realizing Scope 1 and Scope 2 emissions reduction detailed in section 4.3b

Plan for achieving target, and progress made to the end of the reporting year

Energy savings projects, actions to increase Heat Transfer Fluids (coolants) use efficiency, installed additional abatement systems for process greenhouse gases.

List the emissions reduction initiatives which contributed most to achieving this target

<Not Applicable>

C4.2

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

Target(s) to increase low-carbon energy consumption or production

Other climate-related target(s)

C4.2a

(C4.2a) Provide details of your target(s) to increase low-carbon energy consumption or production.

Target reference number

Low 1

Year target was set

2020

Target coverage

Country/area/region

Target type: energy carrier

Electricity

Target type: activity

Consumption

Target type: energy source

Renewable energy source(s) only

Base year

2018

Consumption or production of selected energy carrier in base year (MWh)

0

% share of low-carbon or renewable energy in base year

0

Target year

2025

% share of low-carbon or renewable energy in target year

100

% share of low-carbon or renewable energy in reporting year

0

% of target achieved relative to base year [auto-calculated]

0

Target status in reporting year

Underway

Is this target part of an emissions target?

Yes, INT 1, ABS 1, ABS 2

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

Micron plans to adopt 100% renewable energy for its U.S. operations by the end of CY25.

Our renewable energy strategy includes a combination of green tariffs, physical and virtual power purchase agreements (PPAs), renewable energy credit (REC) purchase agreements.

We have a clear set of initiatives to aid in the use of renewable energy whenever possible, considering the availability of affordable renewable energy based on the unique landscapes in each country where we operate.

Plan for achieving target, and progress made to the end of the reporting year

In CY22, Micron achieved 100% renewable electricity in Malaysia and initiated onsite PPA (solar) in Singapore by achieving 2% of renewable energy out of total energy consumed in CY22.

While RE in US is 0% in the reporting year, negotiations to develop and procure new renewable energy in the United States continue, we have signed several renewable energy procurement agreements, and we expect first execution in 2023.

Micron is a member of the Clean Energy Buyers Association (CEBA), a membership association for large-scale energy buyers, developers, service providers and nongovernmental organizations.

List the actions which contributed most to achieving this target

<Not Applicable>

C4.2b

(C4.2b) Provide details of any other climate-related targets, including methane reduction targets.

Target reference number

Oth 1

Year target was set

2017

Target coverage

Country/area/region

Target type: absolute or intensity

Absolute

Target type: category & Metric (target numerator if reporting an intensity target)

Energy consumption or efficiency	Other, please specify (Percentage)
----------------------------------	------------------------------------

Target denominator (intensity targets only)

<Not Applicable>

Base year

2016

Figure or percentage in base year

0

Target year

2022

Figure or percentage in target year

10

Figure or percentage in reporting year

12.5

% of target achieved relative to base year [auto-calculated]

125

Target status in reporting year

Achieved

Is this target part of an emissions target?

Yes, INT 1

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

Energy saving target, including fuel and purchased energy (electricity, steam, cooling). % emissions in scope and base year emissions are calculated as total Scope 2 (location based) and Scope 1 from fuel consumption (all energy related sources). Micron defined a multi-year goal to achieve at least 10% energy savings by 2022 compared to 2016 baseline year energy use.

With additional projects implemented in CY2022 (target year), we achieved a cumulative 12.5% energy savings compared to CY2016 total energy consumption (baseline) vs the goal of 10%.

Details of energy savings projects and associated CO2e savings are reported in section 4.3b.

Plan for achieving target, and progress made to the end of the reporting year

<Not Applicable>

List the actions which contributed most to achieving this target

We continue to improve energy efficiency, optimize compressed dry air (CDA) systems and chillers to improve efficiency.

We have been implementing system automation and installing control devices to reduce utility consumption during idle mode.

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*	219	70470
Implementation commenced*	174	1012774
Implemented*	272	143653
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

Low-carbon energy consumption	Solar PV
-------------------------------	----------

Estimated annual CO2e savings (metric tonnes CO2e)

155169

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)

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

Payback period

Please select

Estimated lifetime of the initiative

Ongoing

Comment

CO2 savings based upon electricity consumption associated to Rooftop solar panel, onsite PPA (solar) and Green Electricity Tariff in 2022

Initiative category & Initiative type

Energy efficiency in buildings	Heating, Ventilation and Air Conditioning (HVAC)
--------------------------------	--

Estimated annual CO2e savings (metric tonnes CO2e)

40470

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)

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

Payback period

Please select

Estimated lifetime of the initiative

6-10 years

Comment

Combination of projects on HVAC optimization/upgrade to high efficiency: pressure optimization, make up air unit improvement, exhaust balance/optimization. Including smart controls associated to the upgrade. Lifetime ranges have been determined as the average of projects within this category.

Initiative category & Initiative type

Energy efficiency in buildings	Lighting
--------------------------------	----------

Estimated annual CO2e savings (metric tonnes CO2e)

8340

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)

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

Payback period

Please select

Estimated lifetime of the initiative

6-10 years

Comment

Replaced lighting from Fluorescent to LED light, installation of light sensors and smart control. Lifetime ranges have been determined as the average of projects within this category.

Initiative category & Initiative type

Energy efficiency in buildings	Building Energy Management Systems (BEMS)
--------------------------------	---

Estimated annual CO2e savings (metric tonnes CO2e)

1048

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

Please select

Estimated lifetime of the initiative

6-10 years

Comment

Combination of mechanical upgrades to higher efficiency motors, implementation of advanced control strategies, and optimization. Lifetime ranges have been determined as the average of projects within this category.

Initiative category & Initiative type

Energy efficiency in production processes	Process optimization
---	----------------------

Estimated annual CO2e savings (metric tonnes CO2e)

108605

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

Please select

Estimated lifetime of the initiative

6-10 years

Comment

Combination of projects - optimization of uptime, operational parameters adjustments. Optimization of utilities consumption (power, CDA, heat), optimization of process duration. Lifetime ranges have been determined as the average of projects within this category.

Initiative category & Initiative type

Energy efficiency in production processes	Machine/equipment replacement
---	-------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

25201

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

Please select

Estimated lifetime of the initiative

6-10 years

Comment

Replacement of old equipment with high efficiency systems: chillers, pumps, motors, fans. Lifetime ranges have been determined as the average of projects within this category.

Initiative category & Initiative type

Energy efficiency in production processes	Compressed air
---	----------------

Estimated annual CO2e savings (metric tonnes CO2e)

3671

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)

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

Payback period

Please select

Estimated lifetime of the initiative

6-10 years

Comment

Compressed Air system optimization: leak reduction, consumption optimization. Lifetime ranges have been determined as the average of projects within this category.

Initiative category & Initiative type

Non-energy industrial process emissions reductions	Other, please specify (Refrigerant leakage reduction)
--	---

Estimated annual CO2e savings (metric tonnes CO2e)

67190

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

Scope 1

Voluntary/Mandatory

Voluntary

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

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

Payback period

Please select

Estimated lifetime of the initiative

Ongoing

Comment

Leakage reduction of refrigerants used in chillers.

Initiative category & Initiative type

Non-energy industrial process emissions reductions	Other, please specify (Abatement)
--	-----------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

331929

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

Scope 1

Voluntary/Mandatory

Voluntary

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

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

Payback period

Please select

Estimated lifetime of the initiative

Ongoing

Comment

Additional installation of abatement units for process greenhouse gases (only new units installed in 2022 are considered). ROI not applicable.

Initiative category & Initiative type

Non-energy industrial process emissions reductions	Process material substitution
--	-------------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

49965

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

Scope 1

Voluntary/Mandatory

Voluntary

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

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

Payback period

Please select

Estimated lifetime of the initiative

Ongoing

Comment

Replacement of conventional refrigerants/heat transfer fluids with lower GWP alternatives.

Initiative category & Initiative type

Non-energy industrial process emissions reductions	Process material efficiency
--	-----------------------------

Estimated annual CO2e savings (metric tonnes CO2e)

44799

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

Scope 1

Voluntary/Mandatory

Voluntary

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

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

Payback period

Please select

Estimated lifetime of the initiative

6-10 years

Comment

Optimization of HFC/PFC process gases consumption

C4.3c

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

Method	Comment
Lower return on investment (ROI) specification	Micron defined internal Sustainability ROI and NPV guidelines to prioritize reduction opportunities.
Other	Benchmarking on emission reduction solutions in the industry sector

C4.5

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

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products.

Level of aggregation

Group of products or services

Taxonomy used to classify product(s) or service(s) as low-carbon

Other, please specify (Power consumption by application)

Type of product(s) or service(s)

Power	Other, please specify (electronic components)
-------	---

Description of product(s) or service(s)

Lower power usage and higher performance is the driver in the evolution of our entire product line. As an example, products for the mobile market require dense optimized power efficient solutions while memory and storage solutions for the compute centric markets drive more efficient workload management compared with alternate technologies. Energy efficiency is a key competitive advantage to our products and will continue to be an integral part of the R&D, design and manufacture of our core products. While we continue to focus on energy efficiency in products both across the board and in specific categories such as low power DRAM, we are in the process of updating our definitions and do not currently have a specific revenue estimate for 2022.

Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

No

Methodology used to calculate avoided emissions

<Not Applicable>

Life cycle stage(s) covered for the low-carbon product(s) or services(s)

<Not Applicable>

Functional unit used

<Not Applicable>

Reference product/service or baseline scenario used

<Not Applicable>

Life cycle stage(s) covered for the reference product/service or baseline scenario

<Not Applicable>

Estimated avoided emissions (metric tons CO2e per functional unit) compared to reference product/service or baseline scenario

<Not Applicable>

Explain your calculation of avoided emissions, including any assumptions

<Not Applicable>

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

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	No	<Not Applicable>

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

Scope 1

Base year start

January 1 2018

Base year end

December 31 2018

Base year emissions (metric tons CO2e)

2945735

Comment

Scope 2 (location-based)

Base year start

January 1 2018

Base year end

December 31 2018

Base year emissions (metric tons CO2e)

2672875

Comment

Scope 2 (market-based)

Base year start

January 1 2018

Base year end

December 31 2018

Base year emissions (metric tons CO2e)

3177990

Comment

Scope 3 category 1: Purchased goods and services

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 2: Capital goods

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 4: Upstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 5: Waste generated in operations

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 6: Business travel

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 7: Employee commuting

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 9: Downstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 15: Investments

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (downstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.3

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

IPCC Guidelines for National Greenhouse Gas Inventories, 2006
The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

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)

3478449

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

Micron Scope 1 emissions are related to process GHG gases (PFC, HFC, SF6, NF3, N2O), Heat Transfer Fluids, stationary fuel combustion, mobile fuel combustion (owned vehicles) and refrigerants.

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

We are reporting both location-based and market based figures.
Location-based calculated by using the most recent factors published by relevant agencies for each location/country.
Market-based calculated using Supplier specific emission rates where applicable/available.
Whenever the market-based factor is not available we considered the location-based EF for the calculation of equivalent CO2 emissions.

C6.3

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

Reporting year

Scope 2, location-based

3864514

Scope 2, market-based (if applicable)

4132206

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

Micron Scope 2 emissions include: purchased electricity, purchased steam, purchased cooling.

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1, Scope 2 or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure?

Yes

C6.4a

(C6.4a) Provide details of the sources of Scope 1, Scope 2, or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure.

Source of excluded emissions

Non-manufacturing locations: sales offices and design centers, in multiple countries

Scope(s) or Scope 3 category(ies)

Scope 1

Scope 2 (market-based)

Relevance of Scope 1 emissions from this source

Emissions are not relevant

Relevance of location-based Scope 2 emissions from this source

<Not Applicable>

Relevance of market-based Scope 2 emissions from this source

Emissions are not relevant

Relevance of Scope 3 emissions from this source

<Not Applicable>

Date of completion of acquisition or merger

<Not Applicable>

Estimated percentage of total Scope 1+2 emissions this excluded source represents

0.5

Estimated percentage of total Scope 3 emissions this excluded source represents

<Not Applicable>

Explain why this source is excluded

Sales and design offices in America, Asia and Europe have multiple locations even within the same country. The most significant GHG source would be Scope 2 from purchased electricity consumption that is less than 1% of total Scope 2 emissions

Explain how you estimated the percentage of emissions this excluded source represents

The above estimated percentage is calculated by using Scope 1 and 2 from non-manufacturing sites compared to manufacturing locations included in the reporting. Data collected for non-manufacturing sites include electricity consumption, fuel consumption and refrigerants where Micron has operational control.

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)

2387737

Emissions calculation methodology

Hybrid method

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

81

Please explain

Scope 3 emissions are calculated by using the annual spend CY22/supplier and emission intensity factor (tCO2e/mUSD) reported by the suppliers through CDP Supply Chain 2022.

Where supplier specific data was not reported, emissions are calculated by using the relevant industry sector intensity average consolidated by CDP Supply Chain.

The selected Purchased goods/services and Capital goods suppliers contribute to about 70% of total spend 2022.

Percentage of data obtained from suppliers is calculated by considering emissions calculated from intensity emission factors reported by suppliers through CDP Supply Chain compared to total emissions.

Contribution of suppliers impacting Scope 2 (such as electricity providers) and suppliers contributing to other Scope 3 categories (such as business travel and transportation/distribution) are not counted under this category to prevent double counting.

Capital goods

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

1213032

Emissions calculation methodology

Hybrid method

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

92

Please explain

Scope 3 emissions are calculated by using the annual spend CY22/supplier and emission intensity factor (tCO2e/mUSD) reported by the suppliers through CDP Supply Chain 2022.

Where supplier specific data was not reported, emissions are calculated by using the relevant industry sector intensity average consolidated by CDP Supply Chain.

The selected Purchased goods/services and Capital goods suppliers contribute to about 70% of total spend 2022.

Percentage of data obtained from suppliers is calculated by considering emissions calculated from intensity emission factors reported by suppliers through CDP Supply Chain compared to total emissions.

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

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

747018

Emissions calculation methodology

Average data method

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

0

Please explain

This category includes upstream emissions from purchased fuels and electricity, including generation, transmission & distribution (T&D) and any other losses.

Emissions due to fuel and energy related activities are calculated by using actual fuel and electricity consumption in CY2022 along with latest UK DEFRA emission factors published in April 2023 for fuel and steam, while for purchased electricity WTT and T&D factors UK DEFRA 2019

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

147115

Emissions calculation methodology

Hybrid method

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

41

Please explain

Included upstream transportation of: purchased goods, capital goods, transfer of products/materials between Micron sites.

Data source: emissions reports from suppliers where available, remaining calculated from Micron report with activity data (by carrier, transportation mode, total kg/distance).

Emission factors source: US EPA for ground and ocean transportation mode (updated version 18 April 2023) and UK DEFRA for Freight Flights (version 2022)

Emissions from outbound logistics services (reported as downstream transportation/distribution previously) have been included in this upstream category because outbound services are also paid by Micron (GHG Protocol guideline for Corporate Value Chain, page 44)

Waste generated in operations

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

7555

Emissions calculation methodology

Average data method

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

0

Please explain

Calculated CO2 emissions based on tonnage of CY2020 hazardous and non-hazardous waste sent to incineration (with and without energy recovery), recycle, landfill, composting, chemical treatment. Significant reduction of waste sent to Landfill compared to 2021, driving emissions down. Sources of emission factors: UK DEFRA Waste disposal (2022)

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

14891

Emissions calculation methodology

Supplier-specific method

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

100

Please explain

Emissions from business travel (including flights, hotel, and car rentals) are calculated using actual data that is tracked and reported by Micron's travel agencies based on actual CY2020 business travels data. GHG emissions are then calculated by using EPA emission factors. 2022 emissions higher as a consequence of relaxed travel restrictions post COVID-19.

Employee commuting

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

1563

Emissions calculation methodology

Fuel-based method

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

100

Please explain

Emissions from the commuter buses used by our employees in Singapore, Japan, Taiwan and China. Transportation vendors provided distance/fuel consumption data for all relevant locations. Emissions calculated by using fuel consumption in CY2022 as provided by the bus service providers, source of emission factors for relevant fuels EPA 2022 update.

Upstream 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

Micron does not have relevant leased asset for the reporting year

Downstream transportation and distribution

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

In completing a Scope 3 screening and inventory, we have determined that emissions from outbound logistics services (reported as downstream transportation/distribution previously) have to be included in the "Upstream transportation and distribution" category because outbound services are paid by Micron (GHG Protocol guideline for Corporate Value Chain, page 44). Total emissions from distribution and transportation upstream and downstream are then reported in "Upstream transportation and distribution".

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

As per WBCSD/WRI Greenhouse Gas Protocol (GHGP), "If the eventual end use of sold intermediate products may be unknown, companies may disclose and justify the exclusion of downstream emissions from categories 9, 10, 11, and 12 in the report." In completing a scope 3 screening and inventory, we have determined that our sold products should be classified as 'intermediate products' per the GHGP because Micron does not sell any finished/ final products and it is very difficult to estimate the processing, end use and end of life treatment of our products given the range of application types and products which use memory and storage. Thus, we have determined that categories 9, 10, 11 and 12 are not relevant for Micron.

Use 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

As per WBCSD/WRI Greenhouse Gas Protocol (GHGP), "If the eventual end use of sold intermediate products may be unknown, companies may disclose and justify the exclusion of downstream emissions from categories 9, 10, 11, and 12 in the report." In completing a scope 3 screening and inventory, we have determined that our sold products should be classified as 'intermediate products' per the GHGP because Micron does not sell any finished/ final products and it is very difficult to estimate the processing, end use and end of life treatment of our products given the range of application types and products which use memory and storage. Thus, we have determined that categories 9, 10, 11 and 12 are not relevant for Micron.

End of life treatment 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

As per WBCSD/WRI Greenhouse Gas Protocol (GHGP), "If the eventual end use of sold intermediate products may be unknown, companies may disclose and justify the exclusion of downstream emissions from categories 9, 10, 11, and 12 in the report." In completing a scope 3 screening and inventory, we have determined that our sold products should be classified as 'intermediate products' per the GHGP because Micron does not sell any finished/ final products and it is very difficult to estimate the processing, end use and end of life treatment of our products given the range of application types and products which use memory and storage. Thus, we have determined that categories 9, 10, 11 and 12 are not relevant for Micron.

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

Micron does not lease assets to others

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

Micron does not have franchises

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

Micron does not have investments

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

not applicable

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

not applicable

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

0.00028

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

7610655

Metric denominator

unit total revenue

Metric denominator: Unit total

27156000000

Scope 2 figure used

Market-based

% change from previous year

12

Direction of change

Increased

Reason(s) for change

Change in output
Change in revenue

Please explain

Main driver of the increased intensity figure is the significant decrease in revenue compared to last year. Note that the unit total revenue in the metric denominator reflects Micron's fiscal Q2 2022 through fiscal Q1 2023 (that is, December 2021 through November 2022) as the audited fiscal data that comes closest to reflecting the time period of the environmental data reported in this questionnaire, representing a very small (est <1% difference) from full calendar revenue.

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	494288	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	220	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	279163	IPCC Fourth Assessment Report (AR4 - 100 year)
HFCs	150646	IPCC Fourth Assessment Report (AR4 - 100 year)
PFCs	1708708	IPCC Fourth Assessment Report (AR4 - 100 year)
SF6	64025	IPCC Fourth Assessment Report (AR4 - 100 year)
NF3	376222	IPCC Fourth Assessment Report (AR4 - 100 year)
Other, please specify (Heat Transfer Fluid)	405177	IPCC Fourth Assessment Report (AR4 - 100 year)

C7.2

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

Country/area/region	Scope 1 emissions (metric tons CO2e)
United States of America	322848
Singapore	1791764
Taiwan, China	460513
Japan	844172
China	49621
Malaysia	9532

C7.3

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

By activity

C7.3c

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

Activity	Scope 1 emissions (metric tons CO2e)
Manufacturing process	2557642
Combustion	494777
Refrigeration/Cooling	426030

C7.5

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

Country/area/region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
United States of America	295456	328607
Singapore	1167031	1167031
Taiwan, China	1663491	1955107
Japan	425498	522335
China	159125	159125
Malaysia	153912	0

C7.6

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

By business division

C7.6a

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

Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Wafer fabrication	3262024	3683628
Assembly and Test	602490	448578

C7.7

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

Not relevant as we do not have any subsidiaries

C7.9

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

Increased

C7.9a

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

	Change in emissions (metric tons CO2e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	155169	Decreased	2.2	In CY22, Micron operated full capacity rooftop solar in Japan and Singapore, initiated onsite PPA in Singapore and supplied all sites in Malaysia with renewable electricity. Change in emissions has been calculated by considering the power generated and consumed onsite multiplied by the grid emission factor (market based). Percentage has been calculated as ratio of emissions avoided in CY2022 compared to combined Scope 1 and 2 (market based) in calendar year 2021
Other emissions reduction activities	681218	Decreased	9.5	CO2 emissions avoided from energy saving projects, refrigerant leak reduction, process gases abatement implemented during CY21 (detailed breakdown reported in 4.3b). %change = [(total CO2 emissions avoided in CY22)/(CY21 Scope1+2 market-based as reported in CDP2022)]*100
Divestment	0	No change	0	not applicable
Acquisitions	0	No change	0	not applicable
Mergers	0	No change	0	not applicable
Change in output	189672	Increased	2.7	Increased production output of manufacturing sites in CY2022. Emission Value % = (CY22 Scope 1 + Scope 2 emissions)/(Scope 1+Scope 2 CY2021) *100. Reduction activities implemented in CY22 mitigated the increase.
Change in methodology	0	No change	0	not applicable
Change in boundary	0	No change	0	not applicable
Change in physical operating conditions	0	No change	0	not applicable
Unidentified	0	No change	0	not applicable
Other	0	No change	0	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	Yes
Consumption of purchased or acquired cooling	Yes
Generation of electricity, heat, steam, or cooling	Yes

C8.2a

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	LHV (lower heating value)	0	2401140	2401140
Consumption of purchased or acquired electricity	<Not Applicable>	200141	8342669	8542810
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	0	87345	87345
Consumption of purchased or acquired cooling	<Not Applicable>	0	108524	108524
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	223	<Not Applicable>	223
Total energy consumption	<Not Applicable>	200141	10939678	11140042

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

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

<Not Applicable>

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

0

Comment

not applicable

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

<Not Applicable>

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

0

Comment

not applicable

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

<Not Applicable>

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

0

Comment

not applicable

Coal

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

0

Comment

not applicable

Oil

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

0

Comment

not applicable

Gas**Heating value**

LHV

Total fuel MWh consumed by the organization

2376848

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

1022347

MWh fuel consumed for self-generation of steam

212255

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

1142246

Comment

Natural gas consumption

Other non-renewable fuels (e.g. non-renewable hydrogen)**Heating value**

LHV

Total fuel MWh consumed by the organization

24292

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

14173

MWh fuel consumed for self-generation of steam

737

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

9382

Comment

Other non-renewable fuels (diesel, LPG)

Total fuel**Heating value**

LHV

Total fuel MWh consumed by the organization

2401140

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

1036520

MWh fuel consumed for self-generation of steam

212992

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

1151628

Comment

Total Natural Gas, Diesel, LPG used in CY2022

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	549730	549730	223	223
Heat	431888	431888	0	0
Steam	378218	378218	0	0
Cooling	0	0	0	0

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

Country/area of low-carbon energy consumption

Malaysia

Sourcing method

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

Energy carrier

Electricity

Low-carbon technology type

Renewable energy mix, please specify (Hydropower and solar)

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

153960

Tracking instrument used

I-REC

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

Malaysia

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

Yes

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

1997

Comment

Commissioning of generating facilities varies from 1997 to 2020 (entered the year of the oldest project in the above field)

Solar: 2018, 2019, 2020

Hydro: 1997, 2009

Country/area of low-carbon energy consumption

Malaysia

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Solar

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

14000

Tracking instrument used

I-REC

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

Malaysia

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

Yes

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

2014

Comment

Commissioning of generating facilities (solar) varies from 2014 to 2021 (entered the year of the oldest project in the above field)

Country/area of low-carbon energy consumption

Malaysia

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Solar

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

29364

Tracking instrument used

TIGR

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

Malaysia

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

Yes

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

2013

Comment

Commissioning of generating facility (solar) - 2013

Country/area of low-carbon energy consumption

Singapore

Sourcing method

Purchase from an on-site installation owned by a third party (on-site PPA)

Energy carrier

Electricity

Low-carbon technology type

Solar

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

2817

Tracking instrument used

TIGR

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

Singapore

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

Yes

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

2021

Comment

Onsite PPA installation commissioned in 2021

C8.2g

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

Country/area

Taiwan, China

Consumption of purchased electricity (MWh)

3209600

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

87345

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

0

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

3296945

Country/area

Singapore

Consumption of purchased electricity (MWh)

2858020

Consumption of self-generated electricity (MWh)

44

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

108524

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

0

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

2966588

Country/area

United States of America

Consumption of purchased electricity (MWh)

1020690

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

1020690

Country/area

Japan

Consumption of purchased electricity (MWh)

978156

Consumption of self-generated electricity (MWh)

549686

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

1527842

Country/area

Malaysia

Consumption of purchased electricity (MWh)

197324

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

197324

Country/area

China

Consumption of purchased electricity (MWh)

279020

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

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

0

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

0

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

279020

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	No third-party verification or assurance

C10.1a

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

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Micron 2023 Assurance Statement.PDF

Page/ section reference

Pages 1-3

Relevant standard

ISAE3000

Proportion of reported emissions verified (%)

100

C10.1b

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

Scope 2 approach

Scope 2 market-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Micron 2023 Assurance Statement.PDF

Page/ section reference

1-3

Relevant standard

ISAE3000

Proportion of reported emissions verified (%)

100

C10.2

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

Yes

C10.2a

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

Disclosure module verification relates to	Data verified	Verification standard	Please explain
C4. Targets and performance	Year on year emissions intensity figure	ISAE 3000	Limited assurance was conducted on Micron's 2021 emissions intensity decrease vs. 2018
C8. Energy	Energy consumption	ISAE 3000	Limited assurance was conducted on Micron's 2021 total energy consumed, purchased renewable electricity, renewable electricity generated on-site, percentage grid electricity, percentage of total electricity from grid, and percentage renewable.

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)?

Yes

C11.1a

(C11.1a) Select the carbon pricing regulation(s) which impacts your operations.

Singapore carbon tax

C11.1c

(C11.1c) Complete the following table for each of the tax systems you are regulated by.

Singapore carbon tax

Period start date

January 1 2022

Period end date

December 31 2022

% of total Scope 1 emissions covered by tax

79

Total cost of tax paid

6200000

Comment

Singapore Carbon Tax applies to Micron manufacturing sites in Singapore and first year of application was calendar year 2019. Sites shall report emissions by June every year.

In calendar year 2022, 79% of total greenhouse gas emissions reported to Singapore authority (NEA) is taxable under the Carbon Pricing Act.

Tax amount will be confirmed by the National Environmental Agency after the review and approval of the emission report. Total cost of tax (estimated 8.5M SGD) will be paid by September 2023 in Singapore dollars. Total cost reported above is estimated based upon Carbon Pricing at SGD \$5/ tCO₂e and average exchange rate in 2022. Emissions sources within scope and accounting/calculation methodology differ from Micron GHG inventory.

C11.1d

(C11.1d) What is your strategy for complying with the systems you are regulated by or anticipate being regulated by?

Affected Micron sites started an assessment since the proposed rule was issued and evaluated cost impact and possible reduction solutions.

There is a dedicated multi-disciplinary team working on identifying opportunities to reduce emissions (and thus GHG emissions taxes) and establish the execution plan by prioritizing actions that have the most significant impact. Micron has been working on optimizing the use of process gases and install additional dedicated abatement units in our manufacturing sites in Singapore. This effort will help with reducing process emissions covered by the carbon tax.

C11.2

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

No

C11.3

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

No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

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

Yes, our suppliers

Yes, our customers/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

Other, please specify (Collection of Emissions data, targets, risks and opportunities through CDP Supply Chain)

% of suppliers by number

3

% total procurement spend (direct and indirect)

70

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

100

Rationale for the coverage of your engagement

Micron began piloting information collection from suppliers in early 2020, and joined CDP's supply chain program in early 2021. We chose large, strategic suppliers that have the potential for significant greenhouse gas emissions that may contribute to Micron's upstream Scope 3 emissions. CDP conducted outreach to suppliers and shared completed questionnaires with Micron. Micron reviewed responses and engaged with suppliers based on completeness and accuracy of response. We used data collected through CDP Supply Chain to calculate category 1 and 2 of Scope 3 for Calendar Year 2022, direct data from suppliers for Transportation and Distribution/Business Travel/Employee Commuting. We have expanded the number of suppliers included in the Supply Chain program 2023 compared to last year and expect to see improved data quality and completeness.

100% of scope 3 emissions are related to suppliers' goods and services (100% upstream emissions)

Impact of engagement, including measures of success

Measures of success include total number and percent of suppliers engaged, response rate, and number that improve their performance because of Micron's engagement. Total number of suppliers engaged through CDP's supply chain program in 2022 was 112 (compared to 67 in 2021), with response rate of 84% (compared to 79% of previous year)

Comment

Improved response rate and quality of the data compared to last year, despite the significantly increased number of suppliers engaged.

Type of engagement

Innovation & collaboration (changing markets)

Details of engagement

Run a campaign to encourage innovation to reduce climate impacts on products and services

Other, please specify (Engage with suppliers to encourage deployment of projects to reduce their GHG emissions)

% of suppliers by number

3

% total procurement spend (direct and indirect)

70

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

100

Rationale for the coverage of your engagement

This engagement covers our largest suppliers of capital equipment and purchased goods and services, whose products play a key role in Micron's greenhouse gas emissions and energy use. Projects and progress have been reviewed during annual supplier business review and responses are scored on their products' support of Micron's aspirational environmental goals, including greenhouse gas emissions and energy efficiency goals, as well as whether they have adopted GHG emissions reduction projects. Micron use this score as a component of the sustainability portion of scorecards provided regularly to suppliers.

Impact of engagement, including measures of success

Measures of success include projects progress and completion, and calculated reductions in greenhouse gas emissions and energy use based on these engagements. We have measured reductions in GHG emissions based on these engagements.

Comment

Direct and indirect suppliers have been targeted for engagement.

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
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% of customers by number

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

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

We routinely share information with our customers about Micron's products and performance including climate and sustainability performance, and meet with key customers to discuss this information and understand how we are performing from their perspective. Cross-functional teams review the outcomes of those conversations, as well as written customer requirement documents, and assess opportunities for improvement. A semi-monthly meeting of executives, senior leaders and subject leads drives accountability for the improvements we undertake in response to key customer expectations and requirements. We also engage in several industry organizations (such as SEMI, Responsible Business Alliance, the Semiconductor Industry Association, Clean Energy Buyers Association, and others) alongside our customers, building consensus across a range of social and environmental issues specific to our industry, including on climate-related matters. Additionally, our System Power Calculator is an online tool available to our customers to help them estimate memory power requirements when making important system and architecture and design decisions. This information helps our customers make choices that can influence the overall energy footprint of the end devices our products enable. The % of customer-related scope 3 is not applicable - emissions from the use of our products in the final applications is not relevant (refer to 6.5 for explanation)

Impact of engagement, including measures of success

Measures of success include percentage of key customers engaged (estimated at 90%, as noted above), and percentage of low-power products in Micron's sales mix. We recognize that the energy demand of our products contributes to the global environmental impact of technology. This is why we partner with our customers to deliver memory solutions that meet tightening requirements and expectations for energy efficiency.

C12.2

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

No, but we plan to introduce climate-related requirements within the next two years

C12.3

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

Row 1

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

Yes, our membership of/engagement with trade associations could influence policy, law, or regulation that may impact the climate

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

No, and we do not plan to have one in the next two years

Attach commitment or position statement(s)

<Not Applicable>

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

We review policy and industry association stances internally with relevant sustainability and executive leadership as needed, taking into account consistency with our climate commitments.

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

<Not Applicable>

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

<Not Applicable>

C12.3b

(C12.3b) Provide details of the trade associations your organization is a member of, or engages with, which are likely to take a position on any policy, law or regulation that may impact the climate.

Trade association

Other, please specify (Clean Energy Buyers Association)

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

Yes, we publicly promoted their current position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

In early 2021, CEBA called on the federal government to transition to zero-carbon energy, in a statement signed by Micron. See <https://www.businesswire.com/news/home/20210125005130/en/America%E2%80%99s-Largest-Energy-Buyers-Call-on-Federal-Government-to-Transition-to-Zero-Carbon-Energy>

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify (Semiconductor Industry Association)

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

Yes, we publicly promoted their current position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

Micron is an active member of the Semiconductor Industry Association (SIA) representing the semiconductor industry. SIA and its members have been engaged in ongoing proactive efforts to reduce industry GHG emissions. SIA and its members have participated in the efforts of the World Semiconductor Council (WSC) to voluntarily reduce emissions of PFC since 1995 by continuously implementing best practices for new semiconductor fabs and expansions to existing fabs. While PFCs are a continued focus of the WSC, the WSC has a goal of expanding its efforts to broader GHG emissions reductions. WSC and SIA members commitment is in line with Micron's GHG emissions reduction goal.

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

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

2023_micron_sustainability_report (1).pdf

Page/Section reference

10, 11, 23, 26-30, 41, 71, 74-5, 76-7

Content elements

- Governance
- Strategy
- Risks & opportunities
- Emissions figures
- Emission targets
- Other metrics

Comment

Publication

In mainstream reports

Status

Complete

Attach the document

MU 10-K 2023.pdf

Page/Section reference

14, 17-18, 27, 30, 33

Content elements

- Risks & opportunities

Comment

C12.5

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

	Environmental collaborative framework, initiative and/or commitment	Describe your organization's role within each framework, initiative and/or commitment
Row 1	Japan Climate Leaders' Partnership (JCLP) Other, please specify (Semiconductor Climate Consortium)	Participating member of JCLP, founding member of Semiconductor Climate Consortium

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	Please select	<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	Please select	<Not Applicable>	<Not Applicable>

C15.3

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

Impacts on biodiversity

Indicate whether your organization undertakes this type of assessment

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

Dependencies on biodiversity

Indicate whether your organization undertakes this type of assessment

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

C15.4

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

Not assessed

C15.5

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

	Have you taken any actions in the reporting period to progress your biodiversity-related commitments?	Type of action taken to progress biodiversity- related commitments
Row 1	Please select	<Not Applicable>

C15.6

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

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
Row 1	Please select	Please select

C15.7

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

Report type	Content elements	Attach the document and indicate where in the document the relevant biodiversity information is located
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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	Vice President, EHS & Sustainability	Chief Sustainability Officer (CSO)