

onsemi



TCFD RECOMMENDED DISCLOSURE	LOCATION OF DISCLOSURE	BRIEF DESCRIPTION		
Governance				
Disclose the organization's g	overnance around	climate-related risks and opportunities.		
(a) Describe the board's oversight of climate-related risks and opportunities.	CDP Climate Change, C1.1, C1.1a, C1.1b	Formal responsibility and oversight of matters related to environmental, health and safety (EHS), environmental, social and governance (ESG) and sustainability issues at onsemi, including climate-related risks and opportunities, lies with the board Governance and Sustainability (GS) Committee, as stated in the GS committee charter. The GS committee oversees issues related to the company's governance principles and the GS committee charter including risk and opportunities arising from climate change. The committee also oversees ESG and climate-related and sustainability-related initiatives including oversight of strategy, risk management, opportunities, major capital expenditure and investments. The GS Committee holds at least quarterly meetings per year and is comprised of three or more independent members of the board. Additionally, the entire board reviews progress against climate and sustainability-related goals, and targets including progress towards onsemi's goal to achieve net zero emissions by 2040 (Net Zero 2040) across Scope 1, 2 and 3 and other metrics including energy usage, waste generation and water withdrawal. Progress of the company's sustainability projects is communicated by the Chief Marketing Officer on a quarterly basis for review by the board. In 2022, the company ensured ESG initiatives were a priority by tying aspects of onsemi's 2022 equity compensation program to Scope 1, 2 and 3 emissions.		

TCFD RECOMMENDED DISCLOSURE	LOCATION OF DISCLOSURE	BRIEF DESCRIPTION
		Governance
(b) Describe management's role in assessing and managing climate-related risks and opportunities.	CDP Climate Change, Questions C1.2, C1.2a, C1.3, C1.3a	At onsemi, climate-related risks and opportunities are assessed, managed and realized at the highest level of the organization. We believe that the responsibility of operationalizing mitigation and adaptation strategies in response to climate-related risks and opportunities must be integrated at every level of the company, ensuring the success of our risk management program and giving us the ability to act nimbly at all levels when needed. Our ERM program is overseen by a Risk Committee comprised of the CEO, CLO, CFO, CSO and EVP of Operations & Manufacturing. The Risk Committee is responsible for the identification, management and mitigation of risks faced by onsemi . To maintain accountability at the highest functional level, executive staff members are appointed as risk sponsors for individual risks and work with risk owners who manage the risk on a day-to-day basis. ERM findings are communicated to the Risk Committee quarterly to ensure that this information is communicated to executive staff and our Board of Directors. Climate-related risks and opportunities impact business units (BUs) and functional departments across the organization in unique and nuanced ways. BU and department leaders are responsible for understanding, monitoring and acting as the risk and opportunity landscape changes, ensuring they have the information, capacity and resources needed to respond quickly and effectively to trigger events. Groups engaged in climate-relate risk and opportunity assessment include our three BUs, finance, legal, manufacturing, business continuity, new product development, supply chain, ESG, human resources and customer experience.

TCFD RECOMMENDED DISCLOSURE	LOCATION OF DISCLOSURE	BRIEF DESCRIPTION			
	Strategy				
· ·		nate-related risks and opportunities on the organization's ere such information is material.			
(a) Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.	CDP Climate Change, Questions C2.3, C2.3a, C2.4, C2.4a	At onsemi , we have identified potential climate-related risks and opportunities that could impact our business continuity, strategy and financial planning. Risks identified include transitional and physical risks with the capacity to impact our own operation and value chain including our financials, supply chain, workforce, company disclosure and reputation. Climate-related opportunities identified include transitional and physical opportunities related to increase demand of onsemi products and an increase in tangible and intangible asset values. Our identified climate-related risks and opportunities can impact onsemi over the near, medium and long term depending on the risk or opportunity development and maturity. For a full list of onsemi's climate-related risks and opportunities see the Risk and Opportunity Disclosure tables.			
(b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy and financial planning.	CDP Climate Change, Questions C3.1, C3.1a, C3.3	Identified climate-related risk and opportunities pose potential impacts to our business across different impact categories such as finance, supply chain, customer demand and direct operations. These impacts can be general and applicable across our business and value chain or they can be location-based, requiring specific plans and actions localized to the region or country where the risk or opportunity is realized. Realized potential impacts of the identified climate-related risk and opportunities are to be integrated into strategic decision-making across onsemi in business continuity planning, capital expenditure planning and new product development.			

TCFD RECOMMENDED LOCATION OF DISCLOSURE BRIEF DESCRIPTION	
(c) Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios including a 2°C or lower scenario. CDP Climate Change, Questions C3.2, C3.2b	ve leadership, various ed in a climate in and resilience plan used assume various il, technological, ed plausible under in the properties of a climate in the properties of climate in the pro

TCFD RECOMMENDED DISCLOSURE	LOCATION OF DISCLOSURE	BRIEF DESCRIPTION			
	Risk Management				
Disclose how the organizatio	n identifies, assess	es and manages climate-related risks.			
(a) Describe the organization's processes for identifying and assessing climate-related risks.	CDP Climate Change, Questions C1.2, C1.2a, C2.1, C2.1a, C2.1b, C2.2, C2.2a	onsemi uses scenario analysis to understand the impacts of climate change on our business operations, corporate strategy and value chain. By understanding the presumed operational context of different decarbonization trajectories, we can identify potential climate-related physical and transitional risks that could conceivably pose an impact to our business and strategy. These scenarios are not intended to predict the future, but instead, help us understand our potential risk exposure and build resilience through activities to enhance our preparedness.			
(b) Describe the organization's processes for managing climate-related risks.	CDP Climate Change, Questions C2.2, C2.2a, C2.3, C2.3a	Through our scenario analysis, we have identified various action planning and trigger monitoring activities to build resilience to potential climate-related risks. We're exploring the development of internal controls and procedures, adaptation and mitigation plans and identification of trigger events to inform future action and no-regret actions to be taken in response to the outcomes of our climate scenario analysis. Owners will be assigned to monitor and manage relevant climate-related risks to ensure actions are being taken when appropriate to ensure the resilience of business operations and strategies.			
(c) Describe how processes for identifying, assessing and managing climaterelated risks are integrated into the organization's overall risk management.	CDP Climate Change, Question C2.2, C2.2a	The process of identifying, assessing, and managing corporate risks falls within ERM. Our climate-related risks identified through scenario analysis have been mapped to relevant risk definitions within our current risk registrar for ease of integration into our ERM framework. Risk owners have been identified and assigned to ensure continuous management of identified climate-related risks.			

TCFD RECOMMENDED DISCLOSURE	LOCATION OF DISCLOSURE	BRIEF DESCRIPTION
		Metrics and Targets
Disclose the metrics and ta where such information is r	-	ess and manage relevant climate-related risks and opportunities
(a) Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.	CDP Climate Change, Sections C5, C6, C7, C8 2022 onsemi Sustainability Report	Our scenario analysis detailed important metrics to help us assess and monitor climate-related risks and opportunities in line with our strategy and risk management process. Monitored metrics include: • Product energy, water and emissions intensity • R&D expenditures for low-carbon products • Percentage of expenditure on energy efficiency • Total energy consumption included percentage from renewables • Total greenhouse gas emissions • Investment in climate adaptation measures • R&D expenditure on products that support customer decarbonization
(b) Disclose Scope 1, Scope 2 and, if appropriate, Scope 3 greenhouse gas (GHG) emissions and the related risks.	CDP Climate Change, Sections C5, C6, C7, C8 2022 onsemi Sustainability Report	In Fiscal Year (FY) 2022, our GHG emissions were as follows: Scope 1 – 841,104 MTCO ₂ e Scope 2 – 741,934 MTCO ₂ e Scope 3 – 2,143,211 MTCO ₂ e For a breakdown of Scope 3 by category, see the Energy Consumptions and Emissions section of our 2022 sustainability Report, pg. 24. As regions and nations develop regulations aimed at accelerating local or global decarbonization efforts, onsemi may encounter risks associated with our GHG emissions including carbon prices and carbon border adjustments. These can result in increased operational expenditures if we continue to emit GHG emissions through our business operation activities.

TCFD RECOMMENDED DISCLOSURE	LOCATION OF DISCLOSURE	BRIEF DESCRIPTION
(c) Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.	CDP Climate Change, Questions C4.1, C4.1b, C4.2, C4.2b, C4.3, C4.3a, C4.3b, C4.3c onsemi blog, 2040 Emissions Goal for onsemi	At our Analyst Day in 2021, we announced Net Zero 2040 along with a commitment to use 50 percent renewable energy by 2030 and 100 percent renewable energy by 2040. This commitment will guide how we operate our business over the coming years and is essential to ensuring we operate in a socially thoughtful and environmentally responsible manner. We are working to create a climate transition plan to meet Net Zero 2040. We're exploring the use of available levers for reducing emissions across Scope 1 and 2 internally at our facilities, along with pathways for engaging suppliers and other reduction strategies in the value chain for Scope 3 emissions reductions outside onsemi's direct control. We're determining the appropriate milestone tasks, metrics and key performance indicators to use for our climate transition plan, allowing us to track our progress over time. By identifying and monitoring our climate-related risks and opportunities, we can work to set further targets used to build resilience and reduce potential negative impacts from identified risks and realize potential positive impacts from identified opportunities.

Risk and Opportunity Disclosures

Transition risks

Transition risks were most prevalent under the Orderly Decarbonization and Disorderly Decarbonization scenarios.

RISK	VALUE CHAIN	FINANCIAL IMPACT	TIMEFRAME OF IMPACT	ONSEMI RESPONSE
		Risk Ma	nagement	
Introduction of national carbon pricing schemes and/or carbon border adjustment mechanisms	Own operations	Increased expenditure associated with manufacturing and corporate activity. Potential reduction in product margins. Increased exposure to legal liability.	Negligible impact at present; however, impact increases in the medium term (before 2030) under some scenarios.	onsemi's approach to enhancing the resilience of its own operations to transition risks includes: • Achieving net zero emissions: through energy efficiency projects, renewable energy procurement and reducing greenhouse gas emissions from process gases through
Regulatory limits on carbon-related processes	Own operations	Reduced revenue from the reduction in production capacity. Increased exposure to legal liability.	Negligible impact at present; however, impact increases in the medium term (before 2030) under some scenarios.	 process swaps, gas swaps and abatement technology. Integration with strategic planning and risk management: such as exploration of incorporating an internal carbon price in
Varied availability of renewable energy in locations where onsemi operates	Own operations	Increased expenditure associated with sourcing renewable energy (in order to meet regulation and/or strategic objectives)	Some impact at present, the impact increases into the medium term (before 2030), mostly in the Failure to Decarbonize scenario.	capital expenditure planning. • Enhancing disclosure: through ongoing alignment with global climate-related reporting frameworks and comprehensive data/ information controls.
Increased sustainability reporting and assurance requirements	Own operations	Increased expenditure on staff and data/information systems and controls	Impact is present today and increases in the medium term (before 2030) under some scenarios.	

RISK	VALUE CHAIN	FINANCIAL IMPACT	TIMEFRAME OF IMPACT	ONSEMI RESPONSE
Carbon pricing schemes and/ or carbon border adjustment mechanisms applied to onsemi suppliers and their emissions	Supply chain	Increased expenditure for raw materials, products and services, as suppliers pass costs on to onsemi. Potential reduction in product margins.	Negligible impact at present; however, impact increases in the medium term (before 2030) under some scenarios.	 onsemi's approach to enhancing the resilience of its supply chain to transition risks includes: Understanding emissions: developing a baseline of supplier emissions through our Scope 3 emissions inventory.
Limitations on access or availability to raw materials including but not limited to rare earth minerals due to increasing regulations	Supply chain	Reduced revenue if raw materials cannot be supplied to meet demand, and increased expenditure associated with sourcing alternate suppliers and materials.	Negligible impact at present; however, impact increases in the medium term (before 2030) under some scenarios.	Supplier engagement: we are exploring ways to incorporate public reporting of GHG emissions by our suppliers and other ESG matters into our supplier scorecard, which is used to track and encourage enhancement of supplier performance.
Pressure to demonstrate deforestation-free supply chain	Supply chain	Increased expenditure associated with investigating deforestation in onsemi's supply chain, and potentially switching suppliers.	Negligible impact at present; however, impact increases in the medium term (before 2030) under some scenarios.	

Physical risks

Physical risks were most prevalent under the Failure to Decarbonize scenario.

RISK	VALUE CHAIN	FINANCIAL IMPACT	TIMEFRAME OF IMPACT	ONSEMI RESPONSE
Production disruption from extreme weather (including indirect impacts such as government- imposed power restrictions and/ or impacts to surrounding infrastructure)	Own	Reduced revenue from lost production and increased expenditure associated with restarting production.	Impact already occurs in some locations, frequency and severity of impact increases in the medium term under all scenarios.	onsemi's approach to enhancing the resilience of its own operations to physical risks includes: • Enhanced business continuity planning: we are exploring incorporating future scenarios into existing business continuity planning, prioritizing sites at higher risk of climate-related impact.
Damage to onsemi facilities	Own operations	Increased expenditure to repair facilities, increased insurance costs	Impact already occurs in some locations, frequency and severity of impact increases in the medium term under all scenarios.	Infrastructure planning: exploring the consideration of climate scenarios when planning for facility and/ or equipment upgrades or acquisitions. Accelerate resource
Limits to energy and water availability in specific locations at specific times of year	Own operations	Reduced revenue from lost production. Increased expenditure is associated with higher energy and water costs.	Impact already occurs in some locations, frequency and severity of impact increases in the medium term under all scenarios.	efficiency: adopting energy conservation and efficiency measures and increasing water recycling practices, reducing the number of resources needed to operate effectively.
Extreme weather impacts employee health, safety and productivity	Own operations	Increased expenditure and liability risk. Potential reduced revenue associated with lost production from absenteeism.	Impact already occurs in some locations, frequency and severity of impact increases in the medium term under all scenarios.	

RISK	VALUE CHAIN	FINANCIAL IMPACT	TIMEFRAME OF IMPACT	ONSEMI RESPONSE
Extreme weather impacts onsemi supplier locations and/or supply chain logistics	Supply chain	Reduced revenue from lost production	Impact already occurs in some locations, frequency and severity of impact increases in the medium term under all scenarios.	 onsemi's approach to enhancing the resilience of its supply chain to physical risks includes: Existing suppliers: Exploring incorporation of future scenarios into supplier engagement, including audit specifications. Prospective suppliers: Exploring incorporation of future scenarios into business continuity requirements.

Climate-related opportunities

Climate-related opportunities are most prevalent under the Orderly Decarbonization and Disorderly Decarbonization scenarios.

OPPORTUNITY	VALUE CHAIN	FINANCIAL IMPACT	TIMEFRAME OF IMPACT	ONSEMI RESPONSE
onsemi products supporting electrification of transport, infrastructure and wider renewable	Customer/ market demand	Increased revenue associated with increased market demand for electrification technologies.	Impact already occurs in some locations and sectors; impact may increase within existing geographies/sectors and expand to new	onsemi's approach to capitalizing on climate-related opportunities includes: • Triple bottom line product offering: onsemi's strategy targets the use of our products in decarbonization
onsemi products supporting solutions for energy, water and other resource efficiency	Customer/ market demand	Increased revenue associated with increased market demand for technology solutions that increase resource efficiency.	geographies/sectors under some scenarios. Impact already occurs in some locations and sectors; impact may increase within existing geographies/sectors and expand to new geographies/sectors under some scenarios.	and efficiency applications such as electric vehicles, factory automation and renewable energy infrastructure. • Integration into strategic planning: onsemi incorporates climate-related opportunities, including market developments in decarbonization technology,
onsemi products supporting technology for avoided emissions and carbon removals	Customer/ market demand	Increased revenue associated with increased market demand for avoided emissions and carbon removal technology.	Negligible impact at present; however impact increases in the medium term (before 2030) under some scenarios.	in its processes for new product development, expansion of manufacturing capacity, and other strategic planning processes.

Report Revision History

VERSION	DESCRIPTION OF REVISION AND REASON	EFFECTIVE DATE
0	2022 Sustainability Report Document Initial Release	27 June 2023



2022 Sustainability Report

onsemi

Investor Relations and Corporate Development

5/01 N. Pima Road

Scottsdale, Arizona 85250

investor@onsemi.com

www.onsemi.com

