Innovating for a Better Future

2023 Task Force on Climate related Financial Disclosures (TCFD) Framework

ONSEMÍ,



Task Force on Climate-related Financial Disclosures (TCFD) Framework

TCFD RECOMMENDED DISCLOSURE	LOCATION OF DISCLOSURE	BRIEF DESCRIPTION			
Governance	ice				
Disclose the organization's governance 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	As stated in its charter, the Governance and Sustainability (GS) Committee of the Board of Directors is tasked with formal responsibility and oversight of matters related to environmental, health and safety (EHS), environmental, social and governance (ESG) and sustainability issues at onsemi . The committee also oversees ESG, climate-related and sustainability-related initiatives regarding related strategy, risk management, opportunities, major capital expenditure and investments. The GS Committee holds at least four regular meetings per year and is composed 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 Scopes 1, 2 and 3 and other metrics like 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.			

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, C1.3, C1.3a	At onsemi , climate-re managed and realize believe that the resp adaptation strategies opportunities must b ensuring the success the ability to act nimi
		Our ERM program is a CEO, CLO, CFO, CSO Risk Committee is rea and mitigation of risk the highest functiona as risk sponsors for i who manage the risk communicated to the information is commu Directors.
		Climate-related risks and functional depar nuanced ways. BU ar understanding, monit landscape changes, and resources neede events. Groups engat assessment include of business continuity, r

related risks and opportunities are assessed, ed at the highest level of the organization. We ponsibility of operationalizing mitigation and es in response to climate-related risks and be integrated at every level of the company, ss of our risk management program and giving us nbly at all levels when needed.

s overseen by a Risk Committee comprising the O and EVP of Operations & Manufacturing. The esponsible for the identification, management sks faced by **onsemi**. To maintain accountability at nal level, executive staff members are appointed individual risks and work with risk owners k on a day-to-day basis. ERM findings are ne Risk Committee monthly to ensure that this municated to executive staff and our Board of

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-related risk and opportunity assessment include our three BUs, finance, legal, manufacturing, business continuity, new product development, supply chain, ESG, human resources and customer experience.

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Strategy				
	ual and potential impacts of climate-related risks and opportunities on the organization's tegy and financial planning where 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 increased 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, C3.3, C3.4	below. Identified climate-related risks and opportunities may 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 risks and opportunities are to be integrated into strategic decision- making across onsemi in business continuity planning, capital expenditure planning and new product development.		

of the organization's strategy, taking into consideration different climate-related scenarios including a 2°C or lower scenario.	ENDED LOCATION OF DISCLOSURE	LOCATION OF BRIEF DESCRIPTION DISCLOSURE
action plan 1. Failur in wa break clima 2. Order warm and a decar 3. Disor result uneve conse Through thi opportunitie overall busi	ation's Change, g into Questions different C3.2, C3.2b d scenarios	Change, Challenging climate Questions functional owners a C3.2, C3.2b scenario analysis to for implementation
actions to b		The three scenarios action plan for onse 1. Failure to Dec in warming at breakdowns a climate chang 2. Orderly Decal warming limit and adoption decarbonizat 3. Disorderly De resulting in w uneven introc consequence Through this exercis opportunities were overall business stra internal controls and identification of trig actions to be taken scenario analysis.

ble, distinctive, consistent, relevant and e scenarios, **onsemi** executive leadership, various and the ESG team participated in a climate o inform a climate adaptation and resilience plan at the company. Scenarios used assume various g by 2100 and include social, technological, tical developments considered plausible under ectory.

s used to inform the development of a climate **emi** include:

ecarbonize: runaway climate change resulting above 3°C by 2100, international cooperation and increased potential for irreversible effects of age.

arbonization: orderly decarbonization resulting in ited to 1.5°C by 2100, advancement, development n of sustainable technology and global policies for tion, including carbon pricing.

ecarbonization: disorderly decarbonization varming around 2°C by 2100, the abrupt and duction of climate policies and increased financial es of climate change.

ise, relevant climate-related risks and identified and socialized for inclusion in our rategy. We're exploring the development of nd procedures, adaptation and mitigation plans, gger events to inform future action and no-regret in in response to the outcomes of our climate

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Risk Management				
Disclose how the organizatio	lose how the organization identifies, assesses and manages climate-related risks.			
(a) Describe the organization's processes for identifying and assessing climate-related risks.	CDP Climate Change, Questions C1.2, 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, 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 climate- related risks are integrated into the organization's overall risk management.	CDP Climate Change, Questions 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 relev
(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	Our scenario analysis and monitor climate- strategy and risk man • Product energy, w • R&D expenditures • Percentage of exp • Total energy cons • Total greenhouse • Investment in clim • R&D expenditure • decarbonization
b) Disclose Scope I, Scope 2 and, if appropriate, Scope 3 greenhouse gas (GHG) emissions and the related risks.	CDP Climate Change, Sections C5, C6, C7, C8	In Fiscal Year (FY) 20 Scope 1 – 828,620 M Scope 2 – 727,464 M Scope 3 – 1,573,417 I For a breakdown of S of Energy Consumpt Sustainability Report As regions and nation local or global decart associated with our 0 carbon border adjust expenditures if we co business operation a

vant climate-related risks and opportunities

is detailed important metrics to help us assess e-related risks and opportunities in line with our anagement process. Monitored metrics include:

water and emissions intensity

es for low-carbon products

penditure on energy efficiency

sumption included percentage from renewables

e gas emissions

mate adaptation measures

on products that support customer

2023, our GHG emissions were as follows: MTCO₂e MTCO₂e 7 MTCO₂e Scope 3 by category, see the Annual Inventory otion and Emissions section of our 2023 rt, pg. 25.

ons develop regulations aimed at accelerating rbonization efforts, **onsemi** may encounter risks GHG emissions including carbon prices and stments. These can result in increased operational continue to emit GHG emissions through our activities.

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(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	 We have a goal of achieving net zero emissions by 2040 (Net Zero 2040) across Scopes 1, 2 and 3, along with using 50 percent renewable energy by 2030 and 100 percent renewable energy by 2040. This goal 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 Scopes 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 Tables Continue on pg. 97

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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 Management				
Introduction of national carbon pricing schemes and/or carbon border adjustment mechanisms	Own operations		 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 	
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.	 through process swaps, gas swaps and abatement technology. Integration with strategic planning and risk
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.	 management: such as exploration of incorporating an internal carbon price in capital expenditure planning. Enhancing disclosure: through ongoing alignment with global climate-related reporting frameworks
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.	and comprehensive data/ information controls.

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 such as 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 operations	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.	continuity planning: we are exploring incorporating future scenarios into existing business continuity planning, prioritizing sites at higher risk
infrastructure) Damage to onsemi facilities	Own operations	Increased expenditure to repair facilities and increased insurance costs.	Impact already occurs in some locations, frequency and severity of impact increases in the medium term under all scenarios.	 of climate-related impact. Infrastructure planning: exploring the consideration of climate scenarios when planning for facility and/ or equipment upgrades or
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.	 acquisitions. Accelerated resource efficiency: adopting energy conservation and efficiency measures and increasing water recycling practices, reducing the number of
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.	resources needed to operate effectively.

FRAME OF IMPACT ONSEMI RESPONSE

act already occurs ome locations, npact increases in medium term under cenarios.

onsemi's approach to enhancing the resilience of its supply chain uency and severity 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 energy onsemi products supporting solutions for energy, water and other resource efficiency	Customer/ market demand Customer/ market demand	Increased revenue associated with increased market demand for electrification technologies. Increased revenue associated with increased market demand for technology solutions that increase resource efficiency.	ithin some locations and sectors; impact may increase within existing geographies/sectors and expand to new geographies/sectors under some scenarios.venueImpact already occurs in some locations and sectors; impact may increase within existing olutionsolutionsgeographies/sectors and expand to new geographies/sectors and expand to new sectors; impact already occurs increase within existing olutions	 onsemi's approach to capitalizing on climate-related opportunities includes: Sustainable product ecosystem: onsemi's strategy targets the use of our products in decarbonization and efficiency applications such as electric vehicles, factory automation and renewable energy infrastructure Integration into strategic planning: onsemi incorporates climate-related
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.	opportunities, including market developments in decarbonization technology, in its processes for new product development, expansion of manufacturing capacity and other strategic planning processes.

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Report Revision History

VERSION	DESCRIPTION OF REVISION AND REASON	EFFECTIVE DATE
А	2023 Sustainability Report Document Initial Release	26 June 2024

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