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2024 Task Force on Climate-Related Financial Disclosures (TCFD) Framework



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TCFD Recommended Disclosure	Location of Disclosure	Brief Description		
Governance				
Disclose the organization's governance around climate-related risks and opportunities.				
a) Describe the board's oversight of climate- related risks and opportunities.	CDP Corporate Questionnaire: 4.1.1, 4.1.2	As stated in its <u>charter</u> , the Governance and Sustainability (GS) Committee of the Board of Directors is tasked with formal responsibility health and safety (EHS), environmental, social and governance (ESG) and sustainability issues at onsemi . The committee also oversees I 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 comprised of three or more independent members of the Board. A climate and sustainability-related goals and targets, including progress towards onsemi's goal to achieve net zero emissions by 2040 (N near-term targets and other metrics like energy usage, waste generation and water withdrawal. Progress of the company's sustainability Officer and VP of Sustainability and ESG on a quarterly basis for review by the Board.		
 b) Describe management's role in assessing and managing climate-related risks and opportunities. 	CDP Corporate Questionnaire: 4.3, 4.3.1, 4.5, 4.5.1	At onsemi , climate-related risks and opportunities are assessed, managed and realized at the highest level of the organization. We belie mitigation and adaptation strategies in response to climate-related risks and opportunities must be integrated at every level of the comp 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, EVP of Global Manufacturing and Operations is responsible for the identification, management and mitigation of risks faced by onsemi . To maintain accountability at the highest funct as risk sponsors for individual risks and work with risk owners who manage the risk on a day-to-day basis. ERM findings are communicat 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 no responsible for understanding, monitoring and acting as the risk and opportunity landscape changes, ensuring they have the information and effectively to trigger events. Groups engaged in climate-related risk and opportunity assessment include our three BUs, finance, leg development, supply chain, ESG, human resources and customer experience.		

ty and oversight of matters related to environmental, es ESG, climate-related and sustainability-related

d. Additionally, the entire Board reviews progress against (Net Zero 2040) across Scope 1, 2 and 3, SBTi-validated lity projects is communicated by the Chief Marketing

lieve that the responsibility of operationalizing mpany, ensuring the success of our risk management

ns and SVP of Corporate Strategy. The Risk Committee nctional level, executive staff members are appointed cated to the Risk Committee monthly to ensure that this

I nuanced ways. BU and department leaders are ion, capacity and resources needed to respond quickly legal, manufacturing, business continuity, new product

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TCFD Recommended Disclosure	Location of Disclosure	Brief Description			
Strategy					
Disclose the actual and potential impacts of cli	Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy 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 Corporate Questionnaire: 3.1, 3.1.1, 3.6, 3.6.1	At onsemi , we have identified potential climate-related risks and opportunities that could impact our business continuity, strategy and fir and physical risks with the capacity to impact our own operation and value chain, including our financials, supply chain, workforce, comp opportunities identified include transitional and physical opportunities related to increased demand for onsemi products. Our identified 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 Disclosures tables on pages 5-7.			
 b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy and financial planning. 	CDP Corporate Questionnaire: 5.2, 5.3.1, 5.3.2	Identified climate-related risks and opportunities may pose potential impacts to our business across different impact categories such as operations. These impacts can be general and applicable across our business and value chain, or they can be location-based, requiring s 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 ac expenditure planning and new product development.			
c) Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios including a 2°C or	CDP Corporate Questionnaire: 5.1, 5.1.2	Using three plausible, distinctive, consistent, relevant and challenging climate scenarios, onsemi executive leadership, various functiona scenario analysis to inform a climate adaptation and resilience plan for implementation at the company. Scenarios used assume various d technological, economic and political developments considered plausible under each warming trajectory.			
lower scenario.		The three scenarios used to inform the development of a climate action plan for onsemi include:			
		 Failure to Decarbonize: runaway climate change resulting in warming above 3°C by 2100, international cooperation breakdowns and i climate change. 			
		 Orderly Decarbonization: orderly decarbonization resulting in warming limited to 1.5°C by 2100, advancement, development and adopt decarbonization, including carbon pricing. 			
		 Disorderly Decarbonization: disorderly decarbonization resulting in warming around 2°C by 2100, the abrupt and uneven introduction consequences of climate change. 			
		Through this exercise, relevant climate-related risks and opportunities were identified and socialized for inclusion in our overall business			

I financial planning. Risks identified include transitional mpany disclosure and reputation. Climate-related ed climate-related risks and opportunities can impact

as finance, supply chain, customer demand and direct ng specific plans and actions localized to the region or

across **onsemi** in business continuity planning, capital

nal owners and the ESG team participated in a climate s degrees of warming by 2100 and include social,

nd increased potential for irreversible effects of

doption of sustainable technology and global policies for

tion of climate policies and increased financial

ss strategy.

TCFD Recommended Disclosure	Location of Disclosure	Brief Description		
Risk Management				
Disclose how the organization identifies, assesses and manages climate-related risks.				
 a) Describe the organization's processes for identifying and assessing climate- related risks. 	CDP Corporate Questionnaire: 2.1, 2.2.1, 2.2.2, 4.3, 4.3.1	onsemi uses scenario analysis to understand the impacts of climate change on our business operations, corporate strategy and value cl context of different decarbonization trajectories, we can identify potential climate-related physical and transitional risks that could conc These scenarios are not intended to predict the future, but instead help us understand our potential risk exposure and build resilience th		
 b) Describe the organization's processes for managing climate-related risks. 	CDP Corporate Questionnaire: 2.2.2, 3.1, 3.1.1	Through our scenario analysis, we have identified various action planning and trigger monitoring activities to build resilience to potential monitor and manage relevant climate-related risks to ensure actions are being taken when appropriate to ensure the resilience of busine		
c) Describe how processes for identifying, assessing and managing climate-related risks are integrated into the organization's overall risk management.	CDP Corporate Questionnaire: 2.2.2	The process of identifying, assessing and managing corporate risk falls within ERM. The ERM team completes a yearly risk identification with key leaders across all company functions, including ESG, business continuity, manufacturing, etc. Outputs from these interviews are yearly risk mitigation plans.		
Metrics and Targets				
Disclose how the organization identifies, asse	sses and manages climate-related risl	KS.		
 a) Disclose the metrics used by the organization to assess climate-related 	CDP Corporate Questionnaire: Sections C7, C9	We monitor various quantitative metrics as disclosed throughout the report, as well as take actions to respond to identified transition an opportunities, including:		
risks and opportunities in line with its strategy and risk management process.		Total greenhouse gas emissions		
		Total energy consumption, including percentage from renewables		
		Total water withdrawal		
		Energy, emissions and water intensity		
b) Disclose Scope 1, Scope 2 and, if	CDP Corporate Questionnaire: Section C7	In Fiscal Year (FY) 2024, our GHG emissions were as follows:		
appropriate, Scope 3 greenhouse gas (GHG) emissions and the related risks.		Scope 1: 776,500 MTCO2e Scope 2: 705,200 MTCO2e Scope 3: 952,200 MTCO2e		
		For a breakdown of Scope 3 by category, see the Annual Inventory of Energy Consumption and Emissions section of our 2024 Sustain		
		As regions and nations develop regulations aimed at accelerating local or global decarbonization efforts, onsemi may encounter risks as prices and carbon border adjustments. These can result in increased operational expenditures if we continue to emit GHGs through our		
 c) Describe the targets used by the organization to manage climate-related risks and opportunities and performance 	CDP Corporate Questionnaire: 7.54, 7.54.1, 7.54.3, 7.55, 7.55.1, 7.55.2, 7.55.3	We have a goal of achieving net zero emissions by 2040 (Net Zero 2040) across Scope 1, 2 and 3, along with meeting our near-term targ using 50 percent renewable energy by 2030 and 100 percent renewable energy by 2040. This goal will guide how we operate our busing we operate in a socially thoughtful and environmentally responsible manner.		
against targets.		We are exploring available levers for reducing emissions across Scope 1 and 2 internally at our facilities, along with pathways for engagin value chain for applicable Scope 3 emissions. We will track our decarbonization progress over time to ensure we meet our goals.		
		By identifying and monitoring our climate-related risks and opportunities, we can work to build resilience and reduce potential negative positive impacts from identified opportunities.		

e chain. By understanding the presumed operational neceivably pose an impact to our business and strategy. through activities to enhance our preparedness.

ial climate-related risks. Owners have been assigned to iness operations and strategies.

on and prioritization cycle that includes risk interviews are used by the Executive Risk Committee to create

and physical risks and capitalize on climate-related

ainability Report, pg. 26.

associated with our GHG emissions including carbon ur business operation activities.

argets validated by SBTi. We have also committed to iness over the coming years and is essential to ensuring

ging suppliers and other reduction strategies in the

ve impacts from identified risks and realize potential

Risk and Opportunity Disclosures

Transition Risks

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

		Risk	Financial Impact	Timeframe of Impact	onsemi Response
Value Chain		Introduction of national carbon pricing schemes and/or carbon border adjustment mechanisms	Increased expenditure associated with manufacturing and corporate activity. 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 transition risks includ
			Increased exposure to legal liability.		Achieving Net Ze
	rations	Regulatory limits on carbon-related processes	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.	renewable energy emissions from p abatement techno
	Own Ope	Varied availability of renewable energy in locations where onsemi operates	Increased expenditure associated with sourcing renewable energy (in order to meet regulation and/or strategic objectives).	Some impact at present; the impact increases in the medium term (before 2030), mostly in the Failure to Decarbonize scenario.	Integration With as exploration of expenditure plann
		Increased sustainability reporting and assurance requirements	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.	Enhancing Discler climate-related re information contrelated re
	upply Chain	Carbon pricing schemes and/or carbon border adjustment mechanisms applied to onsemi suppliers and their emissions	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 transition risks includ Understanding E emissions through Supplier Engage reporting of CUC
		Limitations on access or availability to raw materials such as rare earth minerals due to increasing regulations	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.	
	S	Pressure to demonstrate deforestation-free 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.	reporting of GHG into our supplier s enhancement of s

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h to enhancing the resilience of its own operations to ludes:

Zero Emissions: through energy efficiency projects, rgy procurement and reducing greenhouse gas process gases through process swaps, gas swaps and nnology.

th Strategic Planning and Risk Management: such of incorporating an internal carbon price in capital anning.

closure: through ongoing alignment with global I reporting frameworks and comprehensive data/ htrols.

n to enhancing the resilience of its supply chain to udes:

g Emissions: developing a baseline of supplier ugh our Scope 3 emissions inventory.

gement: we are exploring ways to incorporate public HG emissions by our suppliers and other ESG matters er scorecard, which is used to track and encourage of supplier performance.

Physical Risks

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

		Risk	Financial Impact	Timeframe of Impact	onsemi Response
Value Chain		Production disruption from extreme weather (including indirect impacts such as government-imposed power restrictions and/or impacts to surrounding infrastructure)	Reduced revenue from lost production and increased expenditure associated with restarting production.	Impact already occurs in some locations; frequency and severity of impact increase in the medium term under all scenarios.	 onsemi's approach to physical risks include Enhanced Busine incorporating future
	perations	Damage to onsemi facilities	Increased expenditure to repair facilities and increased insurance costs.	Impact already occurs in some locations; frequency and severity of impact increase in the medium term under all scenarios.	 Infrastructure Plassenarios when planning, prioritizi Infrastructure Plassenarios when planning, prioritizions. Accelerate Resolation and efficiency mereducing the number planning prioritize planning prioritize planning, planning, prioritize planning, prioritize planning, prioritize planning, prioritize planning, planning
	lo umo	Limits to energy and water availability in specific locations at specific times of year	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 increase in the medium term under all scenarios.	
		Extreme weather impacts employee health, safety and productivity	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 increase in the medium term under all scenarios.	
	ain	Extreme weather impacts onsemi supplier locations and/or supply chain logistics		Impact already occurs in some locations; frequency and severity of impact increases in the medium term under all scenarios.	onsemi's approach to physical risks include
	ply Ch				Existing Supplier supplier engagem
	ldns				Prospective Supplication into business contained

n to enhancing the resilience of its own operations to des:

iness Continuity Planning: we are exploring uture scenarios into existing business continuity tizing sites at higher risk of climate-related impact.

Planning: exploring the consideration of climate n planning for facility and/or equipment upgrades

source Efficiency: adopting energy conservation measures and increasing water recycling practices, umber of resources needed to operate effectively.

to enhancing the resilience of its supply chain to des:

iers: Exploring incorporation of future scenarios into ement, including audit specifications.

uppliers: Exploring incorporation of future scenarios ontinuity requirements.

Climate-Related Opportunities

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

		Risk	Financial Impact	Timeframe of Impact	onsemi Response
Value Chain	mand	onsemi products supporting electrification of transport, infrastructure and wider renewable	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 geographies/sectors under some scenarios.	 onsemi's approach to Sustainable Prod use of our produc
	larket De	onsemi products supporting solutions for energy, water and other resource efficiency	Increased revenue associated with increased market demand for technology solutions that increase resource efficiency.	Impact already occurs in some locations and sectors; impact may increase within existing geographies/sectors and expand to new geographies/sectors under some scenarios.	 such as electric ve energy infrastruct Integration Into S
	Customer/ N	onsemi products supporting technology for avoided emissions and carbon removals	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.	climate-related op in decarbonization development, exp strategic planning
	Own Operations	Extreme weather impacts employee health, safety and productivity	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 increase in the medium term under all scenarios.	

to capitalizing on climate-related opportunities includes:

roduct Ecosystem: onsemi's strategy targets the ducts in decarbonization and efficiency applications vehicles, factory automation and renewable ucture.

Strategic Planning: onsemi incorporates opportunities, including market developments tion technology, in its processes for new product expansion of manufacturing capacity, and other ng processes.