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Task Force on Climate-related Financial Disclosures Table

About this Disclosure

This disclosure has been prepared by Illumina, Inc ("Illumina" or "the Company") to align with the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) and to comply with the climate-related financial risk disclosure requirements set forth in California's Climate-Related Financial Risk Act (also referred to as Senate Bill 261 or SB 261). Illumina has addressed all four TCFD pillars, providing transparent reporting on our governance, strategy, risk management, scenario analysis, and climate-related metrics and targets. Illumina will continue to refine disclosures over time as data and processes mature, sharing additional progress in our annual Corporate Responsibility (CR) Report and CDP submissions. In alignment with SB 261, this report will be updated at least biennially.

TCFD Category	TCFD Disclosures	Illumina Response
Governance		
Disclose the organization's governance around climate-related risks and opportunities.	a. Describe the board's oversight of climate-related risks and opportunities.	At Illumina, governance of climate-related risks and opportunities is overseen at the highest levels of the organization. **Board Oversight** The Board of Directors provides oversight of climate-related risks and opportunities as part of its governance of the Corporate Responsibility (CR) program. The Nominating/Corporate Governance Committee of the Board assists the Board in overseeing material* CR issues, including climate, as stated in its Charter. The Committee provides at least annual updates on climate performance and strategy to the full Board, with additional updates as needed. The Nominating/Corporate Governance Committee receives annual sustainability updates from our Chief People Officer and/or staff. The Audit Committee of the Board provides oversight of our risk evaluation and mitigation processes. The Committee reviews an annual risk assessment report, which includes key risks, mitigation activities, and relevant trends. *In this disclosure, we use the terms "material" and "materiality" to refer to topics that reflect the meaningful environmental, social, and governance impact of Illumina. The use of such terms shall not be deemed to constitute an admission as to the materiality of any information in this report for purposes of applicable securities laws or any other laws of the United States, nor are we using them as they are used in the context of financial statements and financial reporting.

	b. Describe management's role in assessing and managing climate-related risks and opportunities.	**Management Responsibility** Board oversight of climate-related risks is supported by organizational bodies, including our Executive Leadership team and CR Executive Steering Committee, our CR Functional Group, our cross-functional working groups, and our Enterprise Risk Management function. **Executive Leadership:** The Chief Executive Officer (CEO) is responsible for integrating climate considerations into Company strategy and operations. The Chief People Officer chairs the CR Executive Steering Committee, which is comprised of Illumina's management team and is responsible for climate risk analysis, management, and target setting. The Chief People Officer provides regular updates to the CR Executive Steering Committee. **CR Functional Group:** Reporting to the Chief People Officer, this group, which includes the Global Head of CR, Global Lead for CR strategy, Reporting, and Sustainability, and Global Sustainability Manager, manages the day-to-day implementation of the CR program, specifically climate risk management, sustainability integration, and reporting. **Integration Across the Business:** Sustainability is embedded throughout Illumina, with cross-functional working groups (e.g., Environmental, Health and Safety (EHS) Steering Committee, Sustainable Product Core Team, Net Zero Facilities Team) and employee resource groups supporting implementation. **Enterprise Risk Management:** Illumina integrates climate-related risk management into our broader enterprise risk management framework and EHS framework. Climate risks, including physical, transition, and reputational risks are identified, assessed, and managed through established processes that span our operations, supply chain, and business continuity planning. Board and management receive periodic briefings on climate-related topics, regulatory developments, and scenario analysis to help ensure effective oversight and strategic alignment. We periodically reassess governance structures and Board committee responsibilities to help ensure effective oversight as the sustainability landscape evolves. We also incorporate stakeholder feedback through materiality assessments and ongoing dialogue with customers, suppliers, employees, investors, and community partners.
TCFD Category	**TCFD Disclosures**	**Illumina Response**
Strategy		

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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. b. Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy and financial planning.	**Climate-related Risks, Opportunities and their Impacts** We identify and assess climate-related risks and opportunities across physical (acute and chronic) and transition (market, technology, reputation, regulatory) categories. Risks and opportunities are evaluated using defined time horizons (short: 0–5 years, medium: 5–8 years, long: 8–10 years), likelihood, and impact. Illumina defines a substantive financial or strategic impact as one with a potential financial impact greater than 5% of revenue impact. This could be the result of business interruption due to climate-related risk or business operational impact. The following types of risk were identified in line with TCFD terminology: technology; market; reputation; acute physical; and chronic physical. Impact could be the result of business interruption due to climate-related risk or business operational impact. Impact is assessed for financial, operational, and reputational risk. **Time Horizon:** Short (0–5 years), Medium (5–8 years), Long (8–10 years)

Risk	Description	Time Horizon
Acute Physical	Increased severity and frequency of extreme weather	Medium
	Increased severity and frequency of wildfires	Medium
Chronic Physical	Changes in patterns for precipitation and extreme variability in weather	Long
	Rising temperatures and sea levels	Long
Reputation	Increased stakeholder concern or negative stakeholder feedback	Medium
Regulatory	Uncertainty in evolving climate-related laws and disclosure requirements that may increase operational complexity and compliance costs	Short
Market	Carbon or energy tax	Medium
	Supply chain raw material availability and cost	Medium

Opportunities	Description	Time Horizon
Energy Source	Lower emission source of energy	Short
Products & Services	Development of new products or services through R&D and innovation	Medium
Resource Efficiency	More efficient buildings, processes, modes of transport	Short
Markets	Access to new markets	Medium
Resilience	Participation in renewable energy programs and adoption of energy-efficiency measures	Short
Reputation	Customer preferences	Short

The climate change elements that have most influenced our strategy are physical risk to operations, supply chain impact, and reputation.

		These risks have been incorporated into business continuity planning, future product development, redundancy in supply chain where possible, and site selection for future growth. We have implemented redundant planning and maintained safety stock to provide resilience during severe weather events. For financial planning, we include risk and opportunities evaluated through our standard budget planning. Investment in energy-reduction projects that require capital expenditures are evaluated through the Capital Committee planning process. Potential indirect cost associated with supply chain, future tax, or increased operating costs from extreme weather would be evaluated and managed by these internal workstreams. To further integrate climate action into our processes and path to further expand resilience, we have set targets that align with the United Nations Sustainable Development Goals and SBTi methodology for the 1.5°C pathway; set holistic goals to reduce the environmental footprint of our products throughout the life cycle; incorporated Design for Environment principles into our new product design; improved supply chain planning; and taken steps to reduce air emissions. We recognize that our environmental footprint extends beyond our facility walls, and we work with our partners, customers, suppliers, and internal functional groups on projects to decarbonize our value chain. As described in our 2024 Corporate Responsibility Report, our Scope 3 emissions management focuses on: reducing supplier emissions; reducing emissions from upstream and downstream transportation and logistics; reducing our operational waste; providing lower emissions options for business travel and employee commuting; generating returns through more sustainable investments; and enabling our customers to reduce emissions through more efficient products and end-of life options.

c. Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.

Climate Scenario Analysis

Illumina recognizes the importance of scenario analysis in understanding the potential impacts of climate change on our business and informing our strategic response. In 2020, we engaged BSR (Business for Social Responsibility), a third-party consultancy, to develop three 2030 climate scenarios linked to global warming by 2100. Our goal was to better understand the implications of climate change for our business and identify opportunities to build resilience.

Climate scenario analysis was completed using three plausible narrative future representations of our operating environment respectively aligned to a well below 2°C, a 3°C, and a 4°C level of warming. To map assumptions for each trajectory, we utilized standardized third-party climate modeling data, such as the Shared Socioeconomic Pathways (SSPs) and the Intergovernmental Panel on Climate Change (IPCC) Representative Concentration Pathways (RCP).

Climate Trajectory	SSP Scenarios	RCP	Variables Assessed
4°C	SSP–3 baseline	RCP 8.5	GHG emissions, energy consumption, carbon price; physical impacts including temperature change, drought likelihood, heat wave probability, and maximum rainfall. Physical climate impact models used The World Bank Climate Change Knowledge Portal.
3°C	SSP 4-45	RCP 6.0	
Well below 2°C scenario	SSP 1-26	RCP 2.6	

Scenario Narratives:

- **Under the 4°C scenario,** global warming reaches 4°C by 2100, relative to pre-industrial temperatures. In 2030, we assume a geopolitically fragmented world with limited flows of goods or knowledge, and a challenging economic situation, worsened by disinformation and general mistrust. Limited action on climate policy will be taken and a doubling down on fossil-based energy sources will result. More frequent climate-related weather events impact most regions by 2030. This scenario utilizes data from RCP 8.5 and SSP 3 (high challenges to mitigation and adaptation).
- **Under the 3°C scenario,** we assume a world in 2030 facing a slow global economy with fraught geopolitical alliances. Accelerating automation with uneven benefits leads to a focus on inequality. Society is slow to react to climate impacts, distracted by larger economic concerns. Carbon emissions have started to decline slightly: energy efficiency and renewable gains are easily offset by increased use of energy-intensive tech. This scenario causes some physical climate impacts by 2030. This model utilizes data from RCP 6.0 and SSP 4 (low challenges to mitigation, high challenges to adaptation).
- **Under the well below 2°C scenario,** we assume a world in which global cooperation leads to economic recovery that fully embraces the low-carbon transition, with strong climate policy and regulatory action. Some severe climate impacts felt spur coordinated risk-containment efforts. While some physical impacts are already locked in, the pace of change slows and by 2050 the world is on a well below 2°C trajectory. This model utilizes data from RCP 2.6 and SSP 1 (low challenges to mitigation/adaptation).

The scenarios were reviewed in a cross-functional workshop that included key stakeholders across various business units. The implications for each scenario were discussed, and participants identified risk and opportunity hot spots to help direct further integration of resilience planning and embed climate into our developing enterprise risk management program. We will be utilizing the climate scenario insights to expand influence on our climate planning evolution and business continuity plans.

Sample hot spots identified for further consideration included:

Hot Spot	Description
Supply Chain	Raw material availability, cold chain, and supplier community climate resilience
Physical Risks	Risk of acute and chronic physical risks to Illumina's operations and employees
Energy	Energy pricing and availability, renewables, customer expectations, and product energy efficiency
New Products/Markets	Opportunities generated by climate change in agriculture, human health, and climate science
Geopolitical & Trade Dynamics	Availability of materials and feasibility of current operating model
Employee Demographics	Changing workforce demographics and culture, including implications of remote work
Social License to Operate	Perceptions of genomics, data privacy and security, and ethics of product use

Note: Our 2020 scenario analysis was based on a "well below 2°C" trajectory, reflecting the prevailing climate science and policy targets at that time. Illumina's current science-based targets, verified by SBTi, are aligned with the more ambitious 1.5°C pathway.

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TCFD Category	TCFD Disclosures	Illumina Response
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.	Illumina has established a multi-layered approach to identifying, assessing, and managing climate-related risks across our global operations and value chain. Illumina integrates climate-related risk management into our broader enterprise risk management and Environment, Health & Safety frameworks. Climate risks, including physical, transition, and reputational risks are identified, assessed, and managed through established processes that span our operations, supply chain, and business continuity planning. In addition, we regularly review climate-related risks as part of our materiality assessments, scenario analysis, and ongoing monitoring of regulatory and market developments. **Risk Prioritization Through a Materiality Assessment** Illumina identified and assessed climate-related risks and opportunities as part of a prior materiality assessment conducted by a third-party consultancy. Environmental sustainability has been a core CR focus area since 2020 and was reaffirmed in a separate 2024 materiality review. The earlier assessment, performed in accordance with Global Reporting Initiative (GRI) guidelines, identified potentially material sustainability topics relevant to our business strategy and stakeholder interests. An internal cross-functional team refined the preliminary list of topics, and we engaged key stakeholders through qualitative interviews and a quantitative survey to prioritize each topic. Risk types and criteria considered included acute and chronic physical risks (e.g., extreme weather events and long-term climate shifts) and transition risks related to policy, technology, market dynamics, and stakeholder expectations. **Climate Scenario Analysis** As described above, in 2020, Illumina conducted an organization-wide climate scenario analysis, applying both qualitative and quantitative methods. The analysis employed IPCC Representative Concentration Pathways combined with Shared Socioeconomic Pathways to help the Company better understand the implications of climate change for our business and identify opportunities to build resilience.

	b. Describe the organization's processes for managing climate-related risks	**Managing Climate-Related Risks** As detailed in the Governance section above, both the Board and management oversee and mitigate risks facing the company, including those related to climate change. Climate-related risks are managed by our CR Functional Group in partnership with executive leadership and supported by cross-functional working groups and employee resource groups. Climate risks are incorporated into our business continuity and resilience planning, supply chain risk reviews, and site selection processes. We maintain safety stock and redundant planning to mitigate potential disruptions from severe weather or supply chain interruptions. We have implemented redundant planning and maintained safety stock to provide resilience during severe weather events. To further integrate climate into our processes and path to further expand resilience, we have set targets that align with the United Nations Sustainable Development Goals and SBTi methodology for the 1.5°C pathway; set holistic goals to reduce the environmental footprint of our products throughout the life cycle; incorporated Design for Environment principles into our new product design; improved supply chain planning; and taken steps to reduce air emissions. Our Scope 3 emissions management focuses on: reducing supplier emissions; reducing emissions from upstream and downstream transportation and logistics; reducing our operational waste; providing lower emissions options for business travel and employee commuting; generating returns through more sustainable investments; and enabling our customers to reduce emissions through more efficient products and end-of life options.
	c. Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management.	Illumina integrates climate-related risk management into our broader enterprise risk management and Environment, Health & Safety frameworks. Climate risks, including physical, transition, and reputational risks are identified, assessed, and managed through established processes that span our operations, supply chain, and business continuity planning. As our enterprise risk management program evolves, we are assessing further embedding climate-related risk as a core component to help ensure that climate-related risks and opportunities are considered in strategic decision-making.
TCFD Category	**TCFD Disclosures**	**Illumina Response**
Metrics and Targets		

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<tr>
<td>Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities where such information is material.</td>
<td>a. Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.

b. Disclose Scope 1, Scope 2, and if appropriate, Scope 3 greenhouse gas (GHG) emissions and the related risks.

c. Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.</td>
<td>
Illumina has set a Net Zero Target by 2050. Our target and approach have been verified by the Science-Based Target Initiative (SBTi) and are aligned with the 1.5°C pathway. Within this overall target, we have established renewable energy and Scope 1, 2 and 3 emissions targets (from a 2019 baseline) listed in the table below that also have been verified by SBTi. We also have sustainability targets that focus on energy, water, and waste at our facilities, and we are integrating Design for Environment principles into our products and packaging. We disclose our approach, focus areas, and performance in the 2024 Illumina CSR Report.
<table>
<tr><th>Metrics</th><th>2030 Targets* from 2019 baseline</th><th>FY2024 Performance Against Targets</th></tr>
<tr><td>Sustainable Facilities</td><td>• Achieve LEED certification elements or regional equivalent for our facilities and My Green Lab certifications for our global labs</td><td>• LEED Certified Cites: San Diego, CA (Gold); Foster City, CA (Gold); Madison, WI (Gold); Beijing, China (Gold); Shanghai Commercial, China (Silver); Shanghai Manufacturing, China (Gold); Singapore (Gold)
• My Green Lab certified 5 global labs</td></tr>
<tr><td>Scope 1, 2 and 3 GHG Emissions</td><td>• Reduce absolute GHG emissions from material Scope 3 categories 46% by 2030 from 2019 baseline;
• Reduce absolute GHG emissions from direct operations by 46% by 2030 from 2019 baseline;
• Reduce Scope 1 and 2 absolute GHG emissions 90% by 2050 from 2019 baseline;
• Reduce absolute GHG emissions from material Scope 3 categories 90% by 2050 from 2019 baseline.</td><td>
<table>
<tr><th colspan="2">FY 2024 GHG Emissions</th></tr>
<tr><td>GHG Scope</td><td>Metric Tons CO_2e</td></tr>
<tr><td>Scope 1</td><td>18,836</td></tr>
<tr><td>Scope 2 – Market-Based</td><td>0</td></tr>
<tr><td>Scope 2 – Location-Based</td><td>21,224</td></tr>
<tr><td>Scope 3</td><td>241,938</td></tr>
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<u>2024 Performance Against Targets</u>
• 45% decrease of Scope 1, 2 emissions from 2019 baseline*
• 2% decrease of Scope 3 emissions from 2019 baseline; 19% decrease YoY</td></tr>
<tr><td>Renewable Electricity</td><td>• Increase annual sourcing of renewable electricity to 100% from 2019 baseline</td><td>• 100% renewable electricity achieved since 2022 through onsite generation, purchased renewable electricity, and renewable energy credits</td></tr>
<tr><td>Water Intensity</td><td>• Reach 10% reduction in water intensity at core sites</td><td>• 1.2% decrease in water intensity from 2019 baseline; 4.2% decrease YoY</td></tr>
<tr><td>Landfill Diversion</td><td>• Reach 90% landfill diversion at core sites</td><td>• 54% landfill diversion at core sites</td></tr>
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		Sustainable Product Design	• All new product development includes Design for Environment principles	• Completed a streamlined life-cycle assessment (LCA) of the new MiSeq i100 Series demonstrating a 35%** reduction in climate impact
		Packaging Reduction	• Achieve a 75% reduction in packaging from 2019 baseline; 90% of our secondary and tertiary packaging will be recyclable, reusable, or compostable	• 80% reduction of packaging from 2019 baseline; 83% of our secondary and tertiary packaging is recyclable, reusable, or compostable
		Supplier Engagement	• 100% of our strategic suppliers have a commitment to reduce their environmental footprint	• As of 2024, 100% strategic suppliers committed to reducing their environmental footprint

*In addition to 2030 Targets, we have set 2050 GHG emissions targets, which have been verified by SBTi.
**Based on comparison of MiSeq reagent kits to MiSeq i100 reagent kits per 1 gigabase (Gb) of genetic code; measured in Global Warming Potential through an LCA aligned with the methodological requirements and guidelines of the ISO standards ISO 14040 (2006a) and ISO 14044 (2006b) on LCA and the GHG Protocol Product Life Cycle Accounting and Report Standard (WRI/WBCSD, 2011). However, as it is a streamlined LCA study, it does not fulfill all of the reporting requirements of these standards.

Key climate-related data (including GHG emissions, energy, water, and waste metrics) are subject to third-party limited assurance in accordance with ISAE 3000 and ISAE 3410, supporting transparency and data quality. Our 2024 assurance statement can be found here. Additional details on current energy, emissions, water, and waste metrics can be found in the performance summary of our annual Corporate Responsibility Report found here.

Limitations and Forward-Looking Statements

This disclosure contains forward-looking statements based on current assumptions, scenario analysis, and available data. Actual results may differ due to uncertainties inherent in climate modeling, regulatory developments, and business conditions. Data is subject to third-party assurance. In addition to this disclosure, Illumina complies with the California Voluntary Carbon Market Disclosure Act (VCDMA), providing transparent reporting on our use of carbon credits and offsets as part of our net zero strategy.