

# TCFD INDEX

Quanta's reporting on climate-related risks and opportunities is guided by the Task Force on Climate-related Financial Disclosures (TCFD). The TCFD recommends disclosures for corporate reporting, categorized by Governance, Strategy, Risk Management, and Metrics and Targets. This index references Quanta's reporting against the voluntary guidelines of the TCFD. We aim to update our analysis annually.

FOCUS AREA	DISCLOSURE	QUANTA'S RESPONSE
<b>GOVERNANCE</b>		
Disclose the organization's governance around climate-related risks and opportunities.	Describe the board's oversight of climate-related risks and opportunities.	Ethics & Integrity: Ensuring Responsible Governance, p. 114 <a href="#">2023 Proxy Statement   Corporate Governance   The Board's Role in Risk Oversight</a>
	Describe management's role in assessing and managing climate-related risks and opportunities.	Building Momentum: Our Sustainability Strategy, p. 14  Ethics & Integrity: Ensuring Responsible Governance, p. 114  <a href="#">2023 Proxy Statement   Corporate Governance   The Board's Role in Risk Oversight</a>
<b>STRATEGY</b>		
Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.	Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.	<a href="#">2022 Annual Report on Form 10-K   Part I, Item 1, Business, &amp; Item 1A, Risk Factors</a>  <a href="#">Quanta Services CDP Climate Response 2023</a>
		<b>Physical Risks:</b> Changes in climate have caused and are expected to continue to cause, among other things, increasing temperatures, rising sea levels, and changes to patterns and intensity of wildfires, hurricanes, floods, winter storms, other severe weather-related events, and natural disasters. Our operating results can be significantly influenced by both the climates in which we operate and by individual severe weather events, which have impacted and could continue to impact our operating results significantly. A greater amount of rainfall, snow, ice, or other less accommodating weather conditions, as well as an increase in severe weather events and natural disasters, reduces our productivity and causes delays and cancellations of our ongoing projects. For example, hurricanes and tropical storms in the U.S. Gulf Coast region have impacted our ability to perform industrial services operations during certain periods.  Physical risks associated with climate change have also increased hazards associated with certain of our operations, which in turn has increased the potential for liability and increased the costs associated with such operations. For example, severe drought and high wind speeds in the western United States, Australia, and other locations have significantly increased the risk of wildfires. This may expose us and other contractors to an increased risk of liability in connection with our operations in those locations, as these events can be started by the failure of electrical power and other infrastructure on which we have performed services. Given the potentially significant liabilities associated with these events, to the extent we are deemed liable for a wildfire event, it could have a material adverse impact on our business. Furthermore, these climate conditions have also resulted in increased costs for wildfire-related third-party insurance and reduced the amount insurance carriers are willing to make available to us under such policies.

FOCUS AREA	DISCLOSURE	QUANTA'S RESPONSE
<b>STRATEGY, CONTINUED</b>		
		<p><b>Physical Opportunities:</b> An increase in certain of these physical events, such as hurricanes, tropical storms, wildfires, hurricanes, floods, winter storms, other severe weather-related events, and natural disasters, creates opportunities for us to perform a greater amount of emergency restoration services and can increase customer spending on modernization, grid hardening, and other infrastructure improvements, such as fire hardening programs in California and the western United States and storm hardening in coastal regions. For example, in 2021 and 2022, strong hurricanes and other severe weather events resulted in emergency restoration services revenues at or near record levels of emergency restoration services revenues for us. Additionally, changes in climate could result in more accommodating weather patterns for greater periods of time in certain areas, which may enable us to increase our productivity in those areas.</p> <p><b>Transition Risks:</b> The increasing focus on climate change has also impacted markets within our Underground Utility and Infrastructure Solutions segment. Certain services within this segment have experienced challenges and could continue to experience challenges related to a transition toward a carbon-neutral economy. For example, concerns about the impact of certain large pipeline projects on the environment, among other things, have contributed to significant delays and cancellations of certain projects in recent years, and as a result, we have decreased our focus on these service offerings. Furthermore, a longer-term decline in demand for fossil fuels or refined products as a result of climate change concerns and regulation could further negatively impact these projects or negatively impact demand for our midstream and industrial services operations.</p> <p><b>Transition Opportunities:</b> Climate change has also caused, and is expected to continue to cause, changes in the markets in which we operate. For example, in support of the transition to a carbon-neutral economy, utility customers are transitioning toward more sustainable sources of power generation, such as renewables like wind and solar coupled with battery storage technology, and are replacing aging, less efficient electric power infrastructure. Concerns regarding climate change are also leading to the increased electrification of consumer goods, such as electric vehicles, which is expected to provide continued additional demand for new and expanded electric power infrastructure and the re-engineering of existing electric power infrastructure. These market dynamics and technological advances provide significant opportunities for us, including increased demand for our renewable energy infrastructure services, which we have significantly expanded through our acquisition of Blattner, as well as our portfolio of electric power infrastructure services.</p> <p><b>Regulatory &amp; Compliance Cost Risk:</b> New legislation or regulation related to climate change could increase our costs. Most significantly, we maintain a large fleet of vehicles and a significant amount of construction machinery. Our fleet costs could significantly increase as a result of regulations related to vehicle emissions and requirements related to transitioning to electric fleet vehicles.</p>

**FOCUS AREA**

**DISCLOSURE**

**QUANTA'S RESPONSE**

**STRATEGY, CONTINUED**

Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.

Making an Impact: How Quanta Creates Value for Society, p. 8  
 Building Momentum: Our Sustainability Strategy, p. 14  
 How Quanta's Role in the North American Energy Transition Is Gaining Momentum, p. 18  
 Responding to Increasing Extreme Weather & Climate Disasters, p. 28  
 Reducing Our Impact: Our Carbon Footprint, p. 86  
 Collaborating With Industry to Deliver the Hydrogen Economy, p. 94  
 Biodiversity, Environmental & Circular Economy Management: Restoring & Protecting, p. 100

[2023 Proxy Statement | Corporate Governance | The Board's Role in Risk Oversight](#)

[Quanta Services CDP Climate Response 2023](#)

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

[Quanta Services CDP Climate Response 2023](#)

**RISK MANAGEMENT**

Disclose how the organization identifies, assesses, and manages climate-related risks.

Describe the organization's processes for identifying and assessing climate-related risks.

Ethics & Integrity: Ensuring Responsible Governance, p. 114  
[2023 Proxy Statement | Corporate Governance | The Board's Role in Risk Oversight](#)

[Quanta Services CDP Climate Response 2023](#)

Describe the organization's processes for managing climate-related risks.

Ethics & Integrity: Ensuring Responsible Governance, p. 114  
[2023 Proxy Statement | Corporate Governance | The Board's Role in Risk Oversight](#)

[Quanta Services CDP Climate Response 2023](#)

Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management.

Ethics & Integrity: Ensuring Responsible Governance, p. 114  
[2023 Proxy Statement | Corporate Governance | The Board's Role in Risk Oversight](#)

[Quanta Services CDP Climate Response 2023](#)

**FOCUS AREA**

**DISCLOSURE**

**QUANTA'S RESPONSE**

**METRICS & TARGETS**

Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities.

Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.

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

Reducing Our Impact: Our Carbon Footprint, p. 86

[Quanta Services CDP Climate Response 2023](#)

Reducing Our Impact: Our Carbon Footprint, p. 86

[Quanta Services CDP Climate Response 2023](#)

	UNITS	2019	2020	2021	2022
Scope 1 Emissions	Metric tons CO <sub>2</sub> e	656,248	576,626	653,947	836,724
Scope 2 Emissions (Location-Based)	Metric tons CO <sub>2</sub> e	9,429	8,776	8,812	13,276
Scope 2 Emissions (Market-Based)	Metric tons CO <sub>2</sub> e	9,428	8,767	8,797	12,685
Scope 3 Emissions	Metric tons CO <sub>2</sub> e	—	—	—	74,744

Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.

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