

Climate Change Solutions



As a world leader in sustainable engineering and construction, Jacobs brings unique expertise to implement systematic, creative solutions to position your business to become more carbon smart and climate resilient.

The need for immediate action to protect our planet from the impacts of climate change is urgent.

Business leaders across the globe are in the spotlight to reduce the greenhouse gas (GHG) footprint of their operations and ensure their facilities and supply chain are resilient to the risks of a changing climate. With mounting pressure from shareholder and investors, semi-voluntary requirements for disclosure of climate risks, the growing call from customers for a greater commitment to corporate social responsibility, and a changing regulatory environment, the need to proactively address climate change risks has never been greater.

Jacobs is here to help. As a world leader in sustainable engineering and construction, we bring unique expertise to implement systematic, creative solutions to position your business to become more carbon smart and climate resilient.

Our climate change solution professionals have extensive experience supporting clients in virtually all industrial sectors with inventory, management, and reporting of GHG emissions from their companies, projects, and programs. We support quantitative and qualitative analysis and disclosure of the financial impacts of physical, regulatory, and market risks related to climate.

Our fully integrated teams can deliver customized solution-based support anywhere in the world in renewable energy development, biofuels, process and building energy efficiency, chemical and industrial process modifications, biogas capture and utilization, upstream methane emissions reduction, solid waste management, wastewater treatment process engineering, forestry, wetlands, and other relevant sectors.

▶ **#1**

Top 500 Design Firms (ENR)

▶ **#2**

Top 200 Environmental Firms (ENR)



On April 22, 2020, with the release of the company's [Climate Action Plan](#), Jacobs commits to help solve the climate crisis by achieving and maintaining 100% renewable energy, net zero carbon for the company's operations and business travel in 2020 and carbon negative for its operations and business travel by 2030.

"From the way we operate our business, to the work we perform with clients and other organizations, Jacobs' Climate Action Plan details how we will continue to make a positive environmental, societal and economic difference for businesses, governments and communities around the world."

Jacobs Chair and Chief Executive Officer Steve Demetriou

Contact us

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Climate Change Solutions

GHG Management & Reporting Strategy

- Science-based target analyses
- Regulatory/market assessment
- Enterprise energy and resource program development and deployment
- Carbon footprint and climate risk disclosure

Climate Change Scenario Planning

- Assessment of risks to resource management and infrastructure upstream and downstream
- Decision and implementation support

Mitigation of GHG Impacts

- Reduction of fossil energy use- efficiency programs, alternative energy and vehicles
- Carbon sequestration, compression, and long-term storage or beneficial use
- Renewable energy credits (RECs) and carbon offsets

Adaptation and Resiliency Strategies

- Downscale modeling of variations in climate
- Mitigation projects (e.g., flood protection, water supply, power supply, supply chain resiliency)
- Design standard analyses

Project Examples

Confidential Food Processing Client, Setting Science Based Targets

Jacobs supported a global food supplier with development of goals for reduction of their Scope 1, 2 and 3 GHG footprint, in line with the Science Based Targets Initiative (SBTi). We began by conducting a global emissions inventory to prioritize reduction efforts across the value chain involving thousands of suppliers and customers. We then collaboratively worked through the SBT setting and target validation processes. It is expected that management towards this SBTi goal will reduce costs through improved supply chain efficiency and reduction of material, resource, and energy use, and help improve corporate reputation and investor attractiveness.

Newmont Climate Change Risk Analyses

Jacobs supported Newmont Mining in its efforts to identify, assess, and manage change related risks. Initially, the work was focused on climate and hydrological modeling of potential changes to water available for power generation in a developing nation; the company recently experienced unplanned challenges in this location when power curtailments interrupted mining operations, and detailed climate modeling demonstrated that power shortages were likely to become more problematic as temperatures increase, seasonality and annual magnitude of rainfall change, and competition for water increase in the future. Subsequent efforts included development and "road testing" of a guidance manual and management procedures to be applied to identify and mitigate the various risks that climate change could represent for supply chains, product transport, mining operations, power and water supplies, workforce availability, and closure and post closure obligations across the company's worldwide portfolio.

About Jacobs

At Jacobs, we're challenging today to reinvent tomorrow by solving the world's most critical problems for thriving cities, resilient environments, mission-critical outcomes, operational advancement, scientific discovery and cutting-edge manufacturing, turning abstract ideas into realities that transform the world for good. With \$13 billion in revenue and a talent force of more than 55,000, Jacobs provides a full spectrum of professional services including consulting, technical, scientific and project delivery for the government and private sector.