



Racing to Net-Zero

CHALLENGE

Our client, a mid-sized vertically integrated electric utility, announced one of the most aggressive net-zero carbon emissions goals in the United States. The company embarked on a long-term resource planning effort to meet this goal while maintaining reliability and affordability. The client faced several common challenges in this effort, including the consideration of a multitude of options, technology readiness, context and suitability for their territory, and the absence of a regulatory mandate that would require them to pursue low-carbon options. ScottMadden was engaged to facilitate a long-term resource strategy that could meet ambitious decarbonization goals while maintaining (or improving upon) today's levels of reliability.

PROCESS

- Developed a framework for evaluating technologies which included: technology maturity, scale of potential carbon abatement, overnight and operating costs, capacity factors, risk and dispatchability
- Facilitated workshops to focus on the preferred technologies within the short, intermediate, and long-term plan segments
- Engaged with client's resource planning team using their IRP model to interactively solve for the desired emission levels and understand financial and operational impacts

RESULTS

- A long-term resource plan to achieve aggressive decarbonization goals while maintaining reliability
- Provided a plan that incorporated and identified enablers (e.g., regulatory policy, pilot projects, grid capabilities, etc.) necessary to support the resource plan
- Prepared the leadership team to approach their board and regulators with the financial impact of the plan under varying costs of carbon to help inform decision making

AT A GLANCE



Created plan to achieve more than 15M tons/year of CO₂ reduction by 2050

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different departments engaged, including:

- Delivery-Planning
- Delivery-Operations
- Supply-Fuels
- Supply-Projects
- Supply-Operations
- Regulatory

ScottMadden has worked with a number of utilities to develop and scale their solar strategy. [Contact us](#) to learn how we can help support your renewable projects.

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CONTACT US



404.814.0020



scottmadden.com



info@scottmadden.com