



Fleet Electrification and Infrastructure Planning

CHALLENGE

ScottMadden was engaged to develop a fleet electrification strategy and implementation plan for a large, Mid-Atlantic electric and gas utility to support their transportation electrification goals. The company had committed to electrifying 100% of its light-duty vehicles by 2030 and 100% of its heavy-duty vehicles by 2037 but lacked a robust plan that optimized vehicle replacement and charging infrastructure deployment while balancing costs and operational requirements. This meant cross-department collaboration (e.g., facilities, transportation, engineering, etc.), requiring groups that typically don't work together to become familiar with new processes and technologies.

PROCESS

- Developed a model that allowed the client to predict future charging infrastructure needs based on expected electric vehicle use and location
- Gathered and analyzed available fleet vehicle telematics to model duty cycles that electric vehicles would be expected to meet, including storm response situations
- Modeled potential electric vehicle usage, energy consumption, and charging behavior under multiple use cases (e.g., blue-sky days, high-utilization seasons, emergency operations) to determine estimated charging requirements for each facility

RESULTS

- Created an integrated fleet and facilities electrification plan that charts a path toward the client's electrification goals
- Enabled the client to identify which vehicle types and duty cycles were most suitable for electrification and prioritized vehicle replacement and charging infrastructure investments accordingly
- Assisted the client in prioritizing and planning for capital investments to ensure alignment with vehicle electrification goals

AT A GLANCE



Developed fleet electrification plan optimizing vehicle charging infrastructure



Helped to identify suitable vehicle types and duty cycles



Modeled electric vehicle usage, energy consumption, and charging behavior

ScottMadden understands the need for creating an effective fleet electrification strategy to meet requirements. [Contact us](#) to learn how we can help your organization.

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