

Fleet Electrification of Medium and Heavy-Duty Fleets



From planning to deployment, Black & Veatch helps organizations decarbonize their medium and heavy-duty fleets, energize their delivery routes, and build an enduring framework for sustainable, resilient growth.

Plan for Successful Fleet Decarbonization

Organizations want green transport, but they need certainty around their business case and operations. We help you stay ahead of the high-power electrification curve by developing a clear, customized strategy and roadmap that accounts for make-or-break factors such as equipment options, charging strategy, energy reliability, emission reductions, and available incentives. Our in-house advisory experts ask the right questions to guide you through your transition, starting with clean fleet feasibility, through design and execution, to effective operations. We conduct fleet analysis and develop use cases to ensure your infrastructure investment aligns with fleet requirements.

Energize Your Delivery Routes

Organizations often need dedicated charging sites at their depots and along their delivery routes but struggle to find ideal sites in this competitive real estate market. Our in-house team of environmental, land services, civil engineering, and EV planners, engineers, and construction professionals understand siting requirements of depot charging, on-route, shared, and destination/endpoint charging, either alone or in combination. Using digital routing tools, our team locates optimal sites along your delivery routes that support power delivery and charging equipment layout, which minimizes project time and cost.

Manage Your Energy Cost & Risk

Fleet electrification creates a new dynamic around energy that must be managed:

- As fleets electrify, owners become more dependent on power from utilities and energy providers
- Electric fleets require significant power that incurs cost depending on the utility or energy provider's rate structure
- Significant utility upgrades may be necessary, which could take from 12 up to 48 months based on Black & Veatch's experience
- Successful operations hinge on reliable power

To reduce energy costs and risks, more organizations are deploying onsite energy systems to control generation, ensure reliability, and avoid outages, all while reducing costs. A microgrid-solar-storage system with a backup generator can help bridge the gap to get operations up and running and keep them online while waiting for increased distribution capacity from the utility. With a modular, scalable design, you can add clean technologies over time to balance utilization and generation, increase resilience, and decarbonize more of your fleet facility and supply chains.





Why Black & Veatch?

30,134

EV dispensers deployed across 49 states & 6 countries

33%

of U.S. DC Fast Chargers engaged by Black & Veatch

2 GW

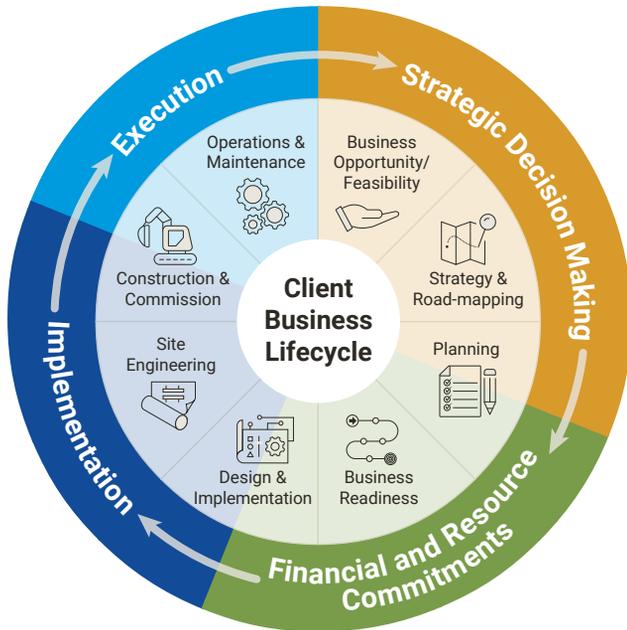
charging capacity deployed

150+

microgrid projects

2.5 GW

of BESS energy



Our process right-sizes your fleet infrastructure, staged in phases to reduce investment risk. You gain a competitive advantage with built-in resilience and stabilized long-term energy and maintenance costs.

Tap Our Unsurpassed Knowledge

For nearly a decade, we've been building the largest and most complex charging networks across the U.S., Canada, and Europe, and helping organizations decarbonize their fleets.

We strategically plan and deploy cleaner versions of essential systems and evolve transportation and facilities into the decarbonized era. We do this by tapping our in-house experts who guide every aspect of your transition to an electric fleet:

- Clean transportation planning, strategy & roadmap
- Climate analytics & sustainability planning
- Site planning & acquisition
- Power delivery & distributed energy resources planning
- Environmental permitting
- Facility design & EPC
- Equipment commissioning & turnover to operations

