

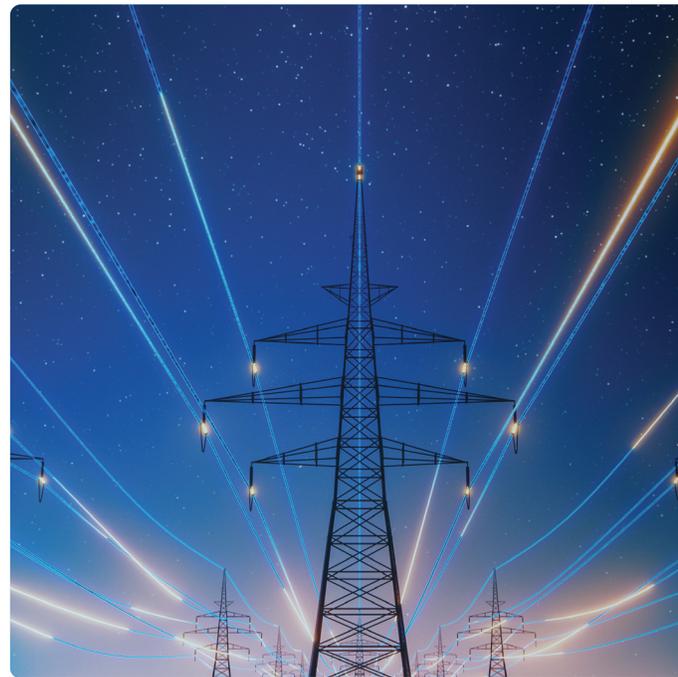
Electrification

Optimizing Electrification and Demand Flexibility

Evolving Grid Dynamics

Utilities are navigating a rapidly evolving energy ecosystem driven by new customer technologies that are reshaping grid behaviors. Distributed energy resources (DERs), bidirectional energy flow, nuclear and hydrogen, and the rise of AI data centers are challenging traditional grid management. Utilities must determine how to integrate demand response and flexible load technologies effectively.

EPE empowers utilities to optimize grid operations and adapt to the dynamic shifts within the industry.



Why EPE



Industry-Leading Expertise

EPE brings industry-leading expertise and deep analytical capabilities to help utilities optimize and analyze their grid operations while collaborating with customers that have flexible energy assets. Our team of experts help utilities identify opportunities to leverage advanced automation and autonomous systems to manage flexible loads.



Customized Solutions for Future-Proof Infrastructure

From transportation to building electrification, EPE delivered customized solutions to support energy efficiency and safeguard your infrastructure for long-term resilience.

Our Focus Areas



Electrification Planning

- Electric vehicle (EV) roadmapping and beneficial electrification plans
- Demand response (DR)/flexibility program design
- EV adoption modeling/forecasting
- Charge point operator/network evaluation and selection
- Site electrification infrastructure analysis
- EV/grid infrastructure optimization
- EV fleet advisory



Program and Pilot Support

- EV, demand side management (DSM), DER, and DR program/pilot design and implementation
- Stakeholder/community engagement and facilitation
- Incentive development and evaluation
- Program implementation
- Program/pilot data collection requirements and evaluation
- Cost-benefit analysis
- Risk assessment
- Technical project management
- Peak demand management strategies



Technical Advisory Services

- Software/technology selection and implementation support
- Distributed energy resource management system (DERMS) requirement and implementation support
- EV and DR tariff benchmarking and evaluation
- EV supply equipment evaluation and selection
- Electrification standards development
- EV charging and DER optimization data assessment and analysis



Regulatory, Research and Development

- Regulatory proceeding support and expert witness testimony
- Stakeholder engagement and facilitation
- Reporting and regulatory compliance
- Support for data request responses
- Regulatory filing support
- Funding source analysis
- Grant concept development
- Grant application development
- Grant reporting and management

Your Trusted Energy Partner

EPE supports clients across the energy ecosystem with end-to-end solutions. Our work spans utility engineering, grid integration, regulatory compliance, and advanced analytics — delivered with the expertise needed to navigate the energy landscape. Acting as an extension of your team, EPE brings decades of experience and a shared commitment to building a resilient, reliable, flexible, and affordable energy future.

Let's Engineer Success Together

Visit epeconsulting.com/solutions/electrification to learn how EPE can accelerate your next project with confidence.

