

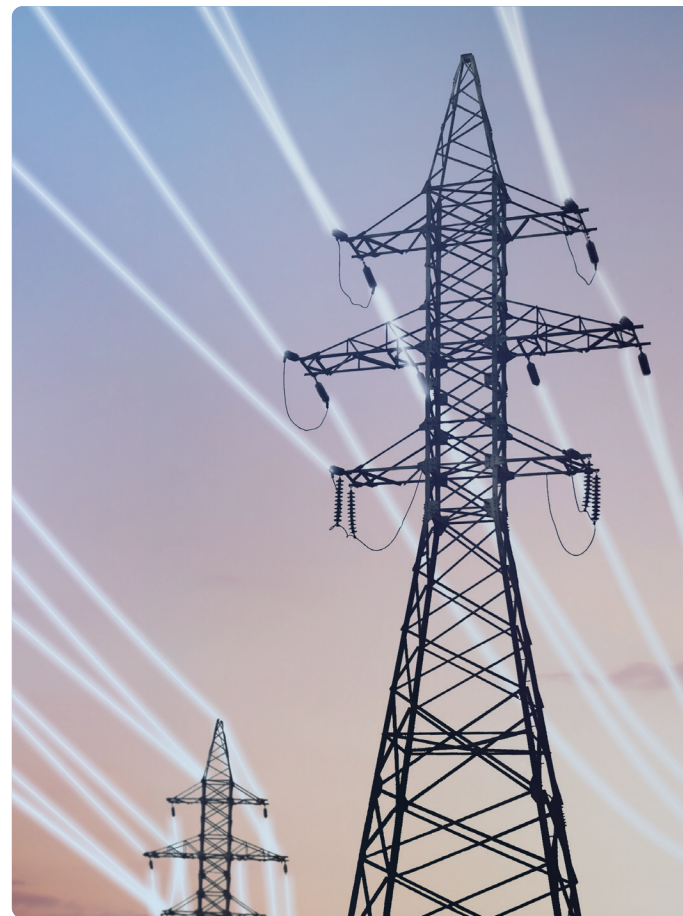
Grid Modernization

Preparing Utilities for the Future

An Evolving Energy Landscape

Grid modernization is driven by the rise of distributed energy resources (DERs), electrification, and the broader energy transition. At the same time, resiliency is a key focus and technology is evolving rapidly. While new innovations show promise, many lack clear guardrails or best practices. Stakeholders have high expectations, and utilities must justify significant upfront investments in advanced distribution management system (ADMS) and distributed energy resource management system (DERMS). In some cases, these systems have been purchased but remain underutilized, leading to implementation challenges. Navigating these complexities is essential for utilities to stay ahead.

EPE provides a range of solutions to support grid modernization and help utilities transition to a more resilient and adaptive network.



Why EPE



Industry-Leading Expertise

Our team of experts specializes in strategy, planning, operations, and regulatory support. As your partner in grid modernization, we offer a range of innovative solutions to help utilities adapt to a changing grid.



Advanced Technologies

By implementing advanced technologies like smart sensors, automation, and real-time analytics, EPE helps utilities enhance operational efficiency, improve reliability, and prepare for renewable integration.

Our Focus Areas



Planning & Studies

- Voltage optimization studies
- Distribution automation and reliability improvement studies
- Distributed energy resources (DER)/distributed generation (DG) value studies
- Non-wires alternative analysis
- DER regulatory support
- Proactive planning framework development
- Flexible interconnection process and requirements development



Electric Vehicle (EV) Services

- EV system impact studies and planning



ADMS/DERMS and Operational Services

- Technology roadmap development
- Technical and regulatory implementation
- ADMS/DERMS operational support
- Advanced application support
- DERMS selection requirement and implementation and support
- Voltage operations support
- Operations data analytics, including advanced metering infrastructure (AMI)
- Fault location, isolation and service restoration (FLISR)
- Voltage optimization (VO)



Regulatory Support

- Technical advisory assistance
- Expert witness support
- General regulatory support – compliance



Strategic Roadmapping

- DER integration
- Distribution system operator (DSO) strategy
- Resiliency roadmaps
- Strategy development



Resiliency

- Project valuation
- Wildfire resiliency and planning
- Cost/benefit analysis
- Risk assessment
- Development of resiliency metrics
- Investment strategy

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. As consultants, engineers, and technologists, we act as an extension of your team, bringing 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/grid-modernization to learn how EPE can accelerate your next project with confidence.

