

ENER-i®

Power Forward with Confidence.

Operate Reliably, Plan Efficiently, and Embrace the Future Grid

Electric utilities face increasing challenges from maintaining reliability and affordability to integrating emerging technologies like solar and EVs, managing vast data volumes from MDM, AMI, and SCADA, and operating efficiently despite labor and financial constraints. Meeting these demands requires smarter software built on real-world understanding.

With over 40 years of experience and a team of 400+ professionals, Electric Power Engineers (EPE) is a trusted partner for utilities worldwide, solving complex grid challenges on the front lines. That deep, practical expertise forms the foundation of ENER-i®, our Energy Intelligence Platform. Designed by power system engineers, for power system engineers, ENER-i® is built to recognize and tackle the operational challenges you face across all facets of your business.

ENER-i® transforms grid data into actionable insights across departments, empowering your team to achieve efficient and economic decisions for distribution performance, maximize workforce productivity, and deliver exceptional service to all utility stakeholders.



Why Trust ENER-i®?



Built on Experience

Over four decades of EPE consulting insights are embedded into ENER-i®'s DNA.



Engineered for Utility Needs

We understand the unique challenges of co-ops and designed ENER-i® to solve them.



Focus on Practical Value

Delivers tangible improvements in reliability, cost evaluation/economic value, and future-readiness.

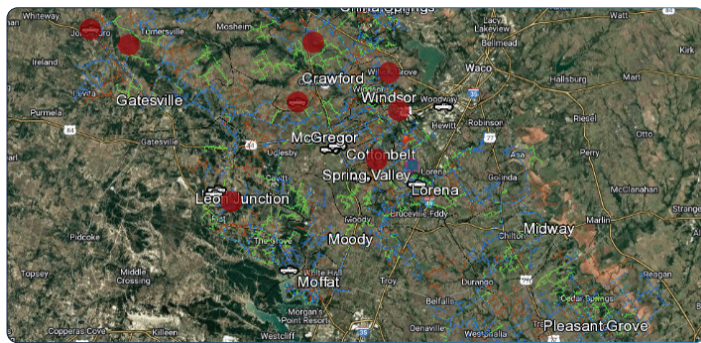
ENER-i

EPE and ENER-i®: Your Partners in Grid Modernization

From Field Expertise to Software Solution

You know EPE as a trusted engineering consulting partner. For years, we've worked alongside utilities like yours, tackling everything from detailed distribution planning and design to DER integration studies and regulatory compliance. ENER-i® was born from that experience.

We recognized the need for a unified, intelligent platform that bridges the real-world data and analysis gaps engineers face daily. With ENER-i® you get more than just software—you get the distilled knowledge and proven approaches of leading power system engineers, embedded directly into your workflow.



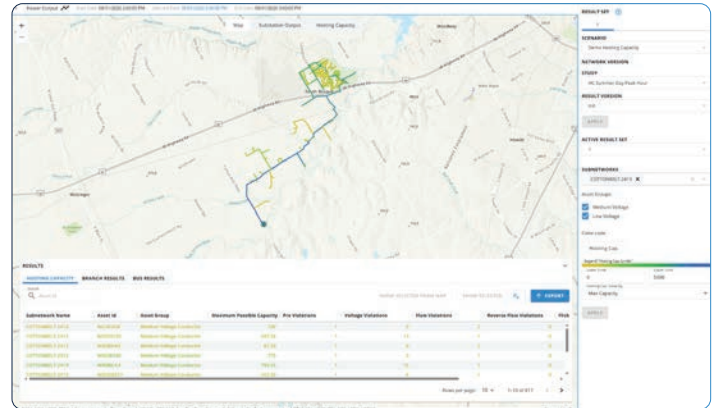
Real-Time Outage and Fleet

Enhance Grid Reliability and Operational Visibility

Stop reacting and start anticipating. Built on EPE's understanding of critical operational needs, ENER-i® delivers a unified, accurate view of your distribution network.

Accurate Digital Twin: Leveraging the robust Esri® Utility Network (UN), ENER-i® ensures correct topology and data quality—essential for the reliable operations EPE consistently champions.

Real-Time Insights: Utilities invest millions in AMI, SCADA, and other data-driven systems to enhance visibility and control over the grid. By integrating these data sources into a single, accessible platform, ENER-i® empowers dispatch, member services, and operations teams to react faster and more efficiently—visualizing outages in real time and gaining valuable insights into system conditions.



Voltage Drop Simulations



Performance Data Visualizations

Proactive Problem Solving: Use embedded engineering intelligence—shaped by countless EPE studies—to identify potential voltage issues or overloading before they impact members.

Improve Engineering and Planning Efficiency

Free your team from manual data wrangling. ENER-i® streamlines workflows and accelerates critical analysis, reflecting EPE's focus on efficiency.

Cloud-Powered Performance: Eliminate the need for costly on-premise hardware, and ease added pressure on your IT labor resources. Our secure, scalable SaaS platform handles massive datasets and complex analyses effortlessly, letting your team focus on operations.

Faster, Deeper Analysis: Perform hosting capacity studies, voltage optimization planning, 8760 analyses, and detailed DER interconnection studies directly within the platform. Leverage powerful analytics designed for interval NWA cost analysis and focus on a lower cost option for system capital investments.

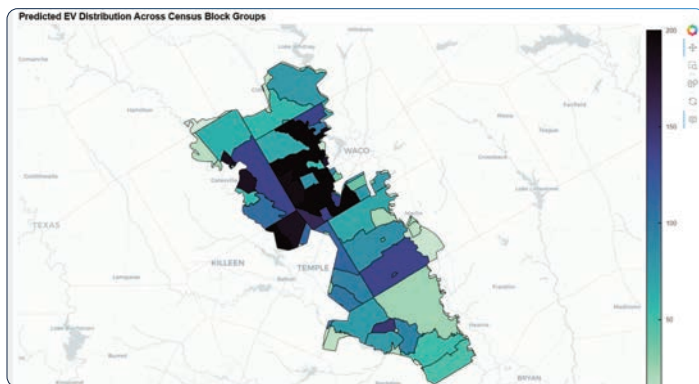
Seamless Data Integration: Effortlessly integrate data from multiple underutilized sources right at your fingertips, unlocking insights previously buried in disconnected systems.

Integrate New Technology and Future-Proof Your Grid

Confidently navigate the transition to a more distributed and dynamic grid. ENER-i® provides the tools—developed from EPE’s extensive DER integration experience—to plan for and manage DERs effectively.

Understand DER Impact: Accurately model and simulate the effects of solar, storage, EVs and more on your VPPs.

Optimize Investments: Produce reliable hosting capacity maps to guide interconnection policies and infrastructure upgrades. Analyze non-wires alternatives or optimize battery placement and sizing.



Spatial Data Visualizations

Flexible Modeling: Adapt to new technologies and grid configurations with flexible equipment databases and profiling engines.

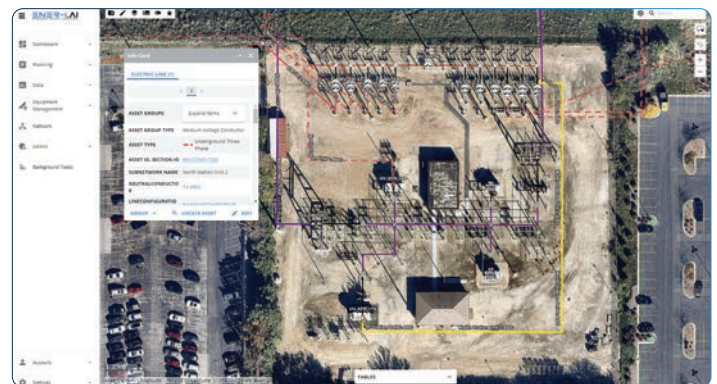
Empower Your Entire Team

ENER-i® isn’t just for engineers. Its intuitive interface provides value across your infrastructure, reflecting EPE’s holistic approach to utility challenges.

Actionable Dashboards: Configurable maps and charts turn complex data into easy-to-understand insights for operations, member services, and management.

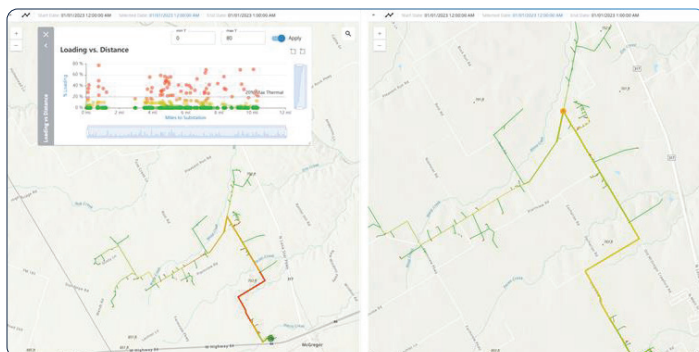
Improved Member Service: Quickly locate members, check service status, estimate line distances, and identify the correct certificated utility, directly from the map interface.

Enhanced Dispatch: Get instant outage visibility, differentiate between overhead/underground lines, and make faster, more informed crew assignments.



Detailed Network Representations

ENER-i



Hosting Capacity Studies

ENER-i® helps utilities operate more reliably, plan more efficiently, and transition to the future grid—without increasing headcount or overhead. It’s the trusted, field-tested intelligence platform built to meet your needs today and tomorrow.

How ENER-i® Delivers Value

ENER-i® saves utilities time and money by delivering trusted, engineering-grade insights—faster.

Developed from decades of real-world utility experience, ENER-i® turns complex grid data into reliable, actionable results. For electric utilities operating with lean teams and increasing demands, this means:



Faster, Smarter Planning

No more starting from scratch. ENER-i® comes pre-configured with proven modeling practices, saving significant setup time compared to traditional methods.

Accuracy with built-in validation and topology checks that ensure your results are trusted from the start.

Visibility by integrating SCADA, AMI, and DER data to give your team a single source of truth for planning, operations, and member service.



Time Savings Through Automation

Automate complex studies like 8760 load flow, voltage profiles, and hosting capacity maps without scripting.

Curate dashboards and data prep tools to streamline data visualizations and analyses which once took days.

Eliminate data silos by integrating all relevant sources—no more stitching together spreadsheets.



Cost Efficiency Through Smarter Planning

Capital cost savings with optimized DER interconnection and battery siting tools.

Reduce operational spend by identifying issues before they escalate—voltage violations, transformer overloads, etc.

Support grant funding and regulatory reporting with standardized, auditable outputs.



Your Partner for a Smarter, More Reliable Grid

With ENER-i®, you gain more than software — you gain a partnership with EPE. We provide comprehensive support backed by decades of power systems expertise, including seamless data migration services, tailored platform training, and ongoing expert consultation to ensure ENER-i® delivers maximum value for your cooperative.

Let's Power Smarter Grids Together

Visit epeconsulting.com/ener-i to schedule a personalized demo of ENER-i® and discover how it can empower your utilities.

