E Source | GRIDINFORM

Leverage the power of data and machine learning to optimize performance across your delivery operations.

A challenging environment

The pressures of flat-to-declining load growth, grid modernization, and COVID-19 result in recurring needs for electric transmission and distribution (T&D) and gas local distribution companies. Our artificial intelligence (AI)-driven approach combines proprietary external data with your internal asset and operational data to create predictive models and algorithms that can help reduce operational costs while maintaining or improving system reliability.

The E Source GridInform solution

Utilities face difficult decisions in maintaining and operating the T&D side of the business—from where to focus vegetation-management efforts to how best to invest in equipment upgrades. E Source GridInform leverages the power of your internal data with algorithms built across thousands of miles of power lines, hundreds of utilities, and billions of customer patterns and usage histories to help you make informed capital decisions, increase reliability, and respond faster to urgent events.

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Our data science team uses proprietary algorithms that incorporate AI and machine learning to help your projects achieve a measurable return on investment (ROI) with short payback periods. Featured modules include:

Vegetation management

Know when and where to trim trees based on millions of data points gathered across your territory and synthesized with our data from peer utilities. Move to highly targeted, pinpoint operations that save you millions while increasing reliability across the grid.

Capital optimization

Your data is likely spread across several platforms. GridInform builds a bridge between these silos and creates new decision-support tools. From deciding when and where to underground powerlines to upgrading components across the T&D footprint, GridInform can highlight dramatic returns on your investments.

Integrated load forecasting

Continued growth in distributed energy resources, along with constantly evolving customer-usage patterns, creates a new need to dynamically manage the distribution grid. GridInform's AI models take into account individual customer usage patterns to provide a system-wide solution that goes beyond traditional capabilities offered by advanced distribution management systems and distributed energy resource management systems in terms of precision and customer usage insights.

Gas leak prediction

Know when and where leaks will occur before they happen. Our proven models gather data such as pipe age, pipe type, and seasonality to provide significant predictive boosts and augment your staffing plans.

Interruption prevention

Everyday power outages occur from preventable causes, including lightning strikes, bird collision, and wildfires. GridInform uses industry-proven machine-learning algorithms to predict these events before they occur. Guide your crews to the right places at the right time and save resources across the board, while maintaining or improving reliability.

Storm-outage prediction

Proactively plan for storms with reliable power-outage forecasts that support crew staffing and positioning based on impact, enabling you to:

- Optimize your storm response to improve safety and reduce costs while still benefiting customers
- Understand the baseline risk of your entire distribution grid
- Gain first-mover advantage and improved accuracy on mutual assistance needs

To schedule a demo, call or email us today.

www.esource.com/gridinform