E Source

Utility improves storm outage prediction accuracy by 20%

Data science case study

October 14, 2024

Key takeaways

- A Northeastern utility wasn't prepared for severe storms due to limited forecast data
- E Source implemented its purpose-built solution that combines practical experience with AI-powered insights
- The utility improved outage prediction accuracy by 20% and reduced storm response costs by 25%

The challenge

A Northeastern utility's storm preparation plans were affected by inaccurate [outage prediction](#) and reactive planning because of limited forecast data that didn't account for utility infrastructure or [vegetation conditions](#). Unreliable response plans and delayed mutual assistance requests meant the utility risked financial penalties, wasted resources, a longer estimated time of restoration, and customer complaints

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Improve outage prediction with Storm Insight

Contact our team to learn more about our expertise and how we can help.

The solution

The utility chose E Source's GridInform Storm Insight, a solution designed specifically to help utilities enhance their [storm preparedness](#) through AI-powered predictive analytics.

E Source reviewed and cleaned the utility's existing data, including infrastructure data, before blending it with a comprehensive range of third-party variables to generate accurate and dynamic predictive insights.

The results

GridInform Storm Insight improved the utility's outage prediction accuracy by 20% three days before a storm.

Additionally, it reduced storm response costs by 25% and helped the utility exceed its goal of restoring power to 95% of customers within 24 hours of a storm.

The utility has now implemented GridInform Storm Insight across its other operating companies to enhance storm readiness and operations.

Effectively manage storm-related outages with Storm Insight