

# Storm Insight: Outage management

Case study

*E Source can help utilities develop and implement a real-time, data-driven outage prediction system using data on weather, infrastructure, and vegetation conditions.*

## The challenge

During a storm, it can be expensive and slow to move crews from one region to another. The longer an outage lasts, the more customer frustration grows, especially when there's a lack of meaningful communication.

And delays in initiating or responding to mutual aid offers from other utilities costs time and money.

## The approach

E Source can help utilities develop and implement a real-time, data-driven outage prediction system using data on weather, infrastructure, and vegetation conditions.

As forecast data is refreshed, the models execute, providing hourly updates to the predicted count of weather- and nonweather-induced power outages.

## The impact

Utilities get location and impact predictions up to five days ahead with more accuracy and less variance than predictions from utility analysts, which underpredict 55% of the time.

The E Source solution enables utilities to deploy resources to the areas that will have the most storm damage, speeding restoration time.