Utility companies need weather-related data to know when—and when not to mobilize.

Collect data and confirm understanding
- Gathering utilities data and key performance metrics is key part of this activity:
  - Three years of outage data history including outage counts, duration, severity, and associated costs.
  - Access The Weather Company® forecast data for the utility service territories to match the same time period.
  - Gather insights from utility subject matter expert to understand mobilization strategy and associated costs.

Tune and test model with new data
- Multi-model approach accounts for all types and sizes of weather and potential impact.
  - Train model to the utility service territory.
  - Work with the utility to match outage counts to mobilization strategy.
  - Utilize multiple verification techniques designed to simulate real-time predictive skill.

Results summarized
- Model skill based on combined 0–72 hour results.
- Model predictions compared to actual utility mobilization and mobilization level.
- Estimated cost savings based on model predictions and past utility storm response expenses.

Outage prediction in mobilization accuracy

<table>
<thead>
<tr>
<th>Time Range</th>
<th>Mobilization Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–24 hour</td>
<td>83%</td>
</tr>
<tr>
<td>24–48 hour</td>
<td>80%</td>
</tr>
<tr>
<td>48–72 hour</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

Proven results
While working with a US-based, investor-owned utility, the Outage Prediction model identified over 20 mobilizations that did not need to happen during a 12-month period by using the Outage Prediction model in real-time, which can result in over USD 3–6 million* annual savings by optimizing costly mobilizations.

Learn how the Outage Prediction model gives critical insight to operations teams a head-start on extreme weather.

Annual savings: USD 3–6 million*

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