

**Industry:** Energy Cooperative

**Location:** North America

**Revenue:** 13 Billion USD

### Challenges

- Customer needed to analyze years of outage data to make infrastructure improvement to increase reliance of their energy grid
- Outage analysis would take several weeks of person hours to compile and complete, and was only available at the end of each year
- Customer was looking to create value from this project through understanding its system more accurately and where continued investments in system hardening would bring the greatest return.

### Benefits

- Delivered a cost effective solution that was designed for governance and scaled to meet variable demands across customer’s data engineers, data stewards, and data scientists
- Provided a collaborative environment that promoted reuse and sharing of data processing capabilities across both data engineering and data science teams
- Deployed and configured a reference architecture supporting the requirements of a data sciences innovation lab focusing on security standards, roles and responsibilities, and success measurement
- Provided proven methodologies and processes that improved innovation lab team collaboration and learning
- Primary KPIs that were available for measurement include causes of outages, affected equipment, count/frequency/duration of outages, number of consumers affected, by power supplier and planned vs. unplanned outages
- Assisted customer to identify obvious outliers within the customer’s power grid system and outliers on their feeders over time

