Case Study

Enable ML Models

for Solar Generation Prediction for US-based
Electric Major

Client

The client is a Fortune 1000 public utility based in the US. It is primarily into a function of energy distribution to customers.

Challenges

- Lack of ability to manage the vast amount of data across different business functions.

- Incapability to scale the current data platform having redundant technologies.

- Inability to churn new business use cases across the current data platform to improve customer experience.

- Automation of ML deployment process to reduce time-to-market.

LTI Solutions

Enable ML models for solar generation prediction and disaggregation from the actual load. The key activities included:

- Developing end state architecture and automated dataflow to ingest data streaming data using snowflake.

- Designing and deployment of PV disaggregation to predict solar generation and disaggregate from actual load.

- Remapping of incorrect meters to calculate correct load at transformer level.

- Enabling automation in ML model deployment process on AWS using AWS Sage maker.

- Creating framework for logging, error-handling, testing, data drift and monitoring on ML assets.

Business Benefits

75-100 million
volume of streaming data handled by unified data platform.

Significant reduction
in deployment process

11% reduction
in outages effective capacity planning at feeder level by pv disaggregation and remapping of meters

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