



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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