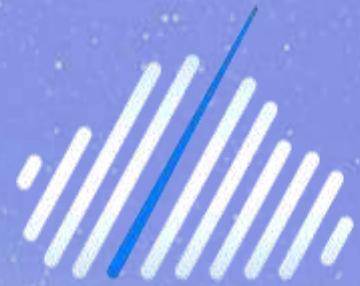


ELECTRIC VEHICLE IDENTIFICATION

Identify location of electric vehicles on the grid using machine learning



Cloud-Sliver
REIMAGINE YOUR APPS

Problem

- + Electric vehicle (EV) charging impacts the grid causing potentially dangerous transformer overloads
- + There is no easy way for utilities to identify these locations
- + Need to know who has electric vehicles so that customer programs can be more targeted

Why Cloud-Sliver



System Oriented Programming delivered identification app in a single business quarter.

Machine learning used to analyze utility electric meter data and create statistically significant "EV identifiers".

System Oriented Programming performance enables application to run in real-time and identify charging events as they occur.

Solution



Electric meter data evaluated for back years and current months to identify load profiles indicative of EV charging



Utility was able to make much more accurate forecasts of electric demand for EVs

Distribution grid hot spots identified and distribution transformer failures avoided



IMPACT



Prevented transformer failures by identifying distribution hot spots and proactively upgrading transformers.



Utility was able to more aggressively roll out EV and distributed generation programs.