CASE STUDY

ercot

Receive operational info from Distributed Energy Resources (DERs)

Problem:

- Distributed Energy Resources (DERs), like rooftop solar and batteries, are increasing
- Currently, for ERCOT's grid studies, DERs are netted out of the load forecasting with no visibility of separate generation/load at the distribution level
- As DER penetration increases, planning and operations will become challenging without the ability to forecast and model the impact of distributed load and generation separately
- Mechanism to get DER information will be different from transmission connected resources due to the volume and cost of sending the data using transmission protocols
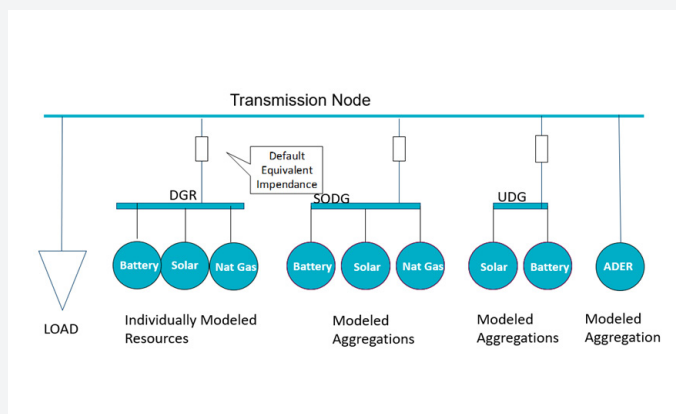
Potential Solution:

- Build a technology platform with an innovation partner to communicate with DERs with low-cost, API-based solutions that can manage volume.
- Use the platform to improving forecasts and situational awareness

Benefit:

- Grid reliability and infrastructure planning

Timeline

White Paper

Define needs and requirements

Proof-of-Concept (POC)

Selected vendor for the platform and open call for sending DER information

Implementation

Production environment with limited partners

NPRR

Possible ERCOT-wide implementation due to penetration levels or compliance

2024   2025   2026   2027   2028