

INCORPORATING BEHIND-THE-METER DER INTO A TOPOLOGY-AWARE DER CONTROL SCHEME



PROBLEM

Utilities face the challenge of an increasingly diverse mix of assets, including Front-of-the-Meter (FTM) large scale distributed energy resources (DER) and Behind-the-Meter (BTM) assets such as those from customers through demand response (DR) programs. While BTM management can provide network-wide DR services, more granular constraint management must be cognizant of local network conditions where grid topology is a key factor.

SOLUTION

Topology-Aware Control of BTM DER through Strata Grid is a method used to manage and optimize the operation of DER within an electrical network that exhibits multiple operational topologies. Strata Grid is the only DERMS to coordinate both FTM and BTM assets. With Strata Grid you can control and optimize the operation of DER within a dynamic network, preventing grid constraint violations.

OUTCOME

The sophisticated control provided through Topology-Aware Control of BTM DER can be finely tuned for maximum utilization - which is crucial in congested networks. The utility will achieve grid and topology-aware control of the BTM DER in their network, allowing them fast-acting and highly granular control to resolve local network issues and optimize the value to the grid. It is also a pathway to faster and cheaper improvement of grid capacity and reliability than traditional grid reinforcement.

KEY BENEFITS

- Optimized Grid
- Capacity Increased
- Powerful control over topology of all DER including BTM assets on the network

