



AUWAHI WIND'S ENERGY STORAGE SYSTEM

Auwahi Wind paved the way to utility-scale battery storage for the industry with its 11-megawatt (MW) battery energy storage system (BESS). In operation since 2012, Auwahi's Wind's BESS provides greater grid stability and reliability by managing the intermittency of wind generation.

Auwahi Wind's BESS was designed to store electricity generated by the 21 MW wind project in Maui and manage the energy at the point of interconnection through ramp rate control. Sempra Renewables' experience in grid-scale batteries, inverters, state of the art monitoring and control features has contributed to the safe and reliable operation of the project.

This early success into innovative battery storage management has since given rise to Sempra's PXiSE technology. PXiSE gives grid operators, energy managers and customers active power control software that can be applied to nearly every power grid anywhere in the world.

KEY BENEFITS OF ENERGY STORAGE

- Improve grid stability and reliability
- Potential to provide ancillary services
- Provide new capacity that could be deployed quickly
- Provide dependable frequency response
- Mitigate intermittency "firming" of renewables

LOCATION

Maui, Hawaii



BATTERY TYPE

Grid Battery Storage - High rate lithium Ion (LiFePo4)

INVERTER

Dynapower Bi-Directional (3)
4.5MVA Power Conditioning System (PCS)

CAPACITY

Power: 11 MW
Energy: 4.4 MWh

PRIMARY USE

Ramp rate control

SECONDARY USE

Inertial Response