

Modelling consulting

A dedicated team performing the following activities to support our customers in the initial steps of projects evaluation

- 1 Preliminary Plant level design for interconnection request submittal
- 2 Preliminary PSSE, PSLF, PSCAD, ASPEN models for interconnection package
- 3 Model Quality Test and Benchmarking between Electromagnetic and Electromechanical domain
- 4 2800 Compliance test- Model and Product
- 5 Grid Forming Inverters, Capabilities and Offerings
- 6 Grid Code Review

Grid forming

System Stability/Strength improvements

Operates as virtual synchronous machine	Power and Voltage closed loop regulators	Inertial response based on ROCOF
Phase angle jump power	Fast fault current response (< 1ms)	Sink for harmonics and unbalance
Prevents adverse control interaction	Provides damping	Capable of operation at low short circuit ratio

System Restoration Service

Black start/system restoration capability

Other

Capability of grid-tied and islanded operation, with seamless transition between these modes

Case studies



El Centro 30MW/20MWh



Perryville 7.4MW/6.6MWh