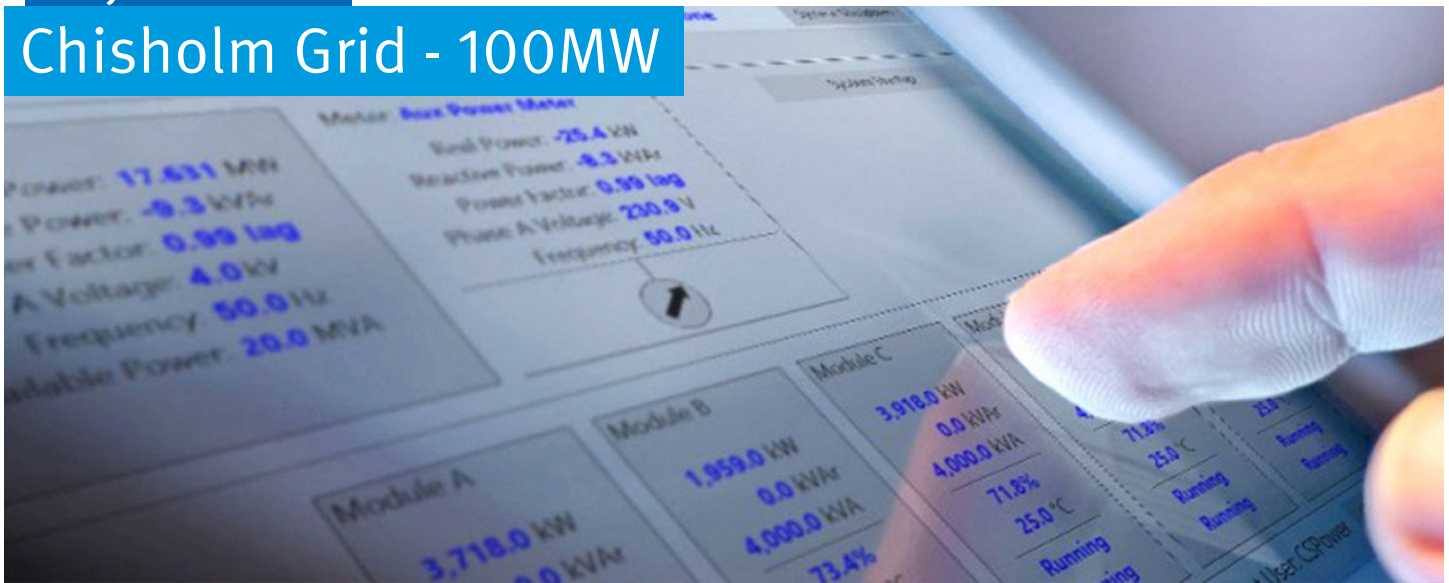


PROJECT PROFILE

Chisholm Grid - 100MW



ABLE GRID

Outcome:

Deploy a comprehensive energy management system (EMS) to provide rapid response and advanced grid services.

Challenge

Able Grid Energy Solutions selected Doosan GridTech's Intelligent Controller software platform to operate its 100MW Chisholm Grid battery energy storage system (BESS) in Fort Worth, Texas. Owned by Astral Electricity, this facility is the largest standalone storage system participating in the ERCOT market (Electricity Reliability Council of Texas).

Requiring a cost-effective, advanced power resource to supplant costlier and less flexible thermal generating units, Chisholm Grid's engineers sought an independent EMS provider with a rapid-response controls platform. This platform needed to optimize arbitrage, ancillary services, and fast frequency response.

Doosan GridTech® Solution

Doosan's winning solution paired its on-premise Intelligent Controller platform with its cloud-based Performance Analyzer module. This system is built on open standard communication interfaces and has proven its ability to meet the rigorous 250ms ramp requirements of ERCOT's Fast Frequency Response market.

Under the operation of Doosan's Intelligent Controller, the Chisholm Grid BESS will meet its high-performance requirements through:

- State-of-the-art control architecture for sub-cycle processing and accurate power targets
- Highly reliable, self-healing software with zero downtime updates
- Predictive maintenance and battery warranty management

With Doosan's Performance Analyzer module, Chisholm Grid system operators can create custom key performance indicators, benchmarks, and visualizations through a flexible user interface. This module gives them secure visibility into the current and expected status of assets or fleet of assets in real-time. Using historical data and sophisticated models underscored by artificial intelligence, the Performance Analyzer also provides meaningful predictions to assist operational decision-making.