



Grid-forming battery energy storage system

HITACHI
Inspire the Next



e-mesh PowerStore

Enabling resilient and
cost-effective access
to power

 **Hitachi Energy**

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e-mesh PowerStore

Hitachi Energy's e-mesh™ PowerStore™ grid-forming battery energy storage systems are designed for both grid-connected and off-grid applications, ensuring reliable power, seamless renewable integration and grid stability whilst reducing operating costs and complying with main grid codes and standards.

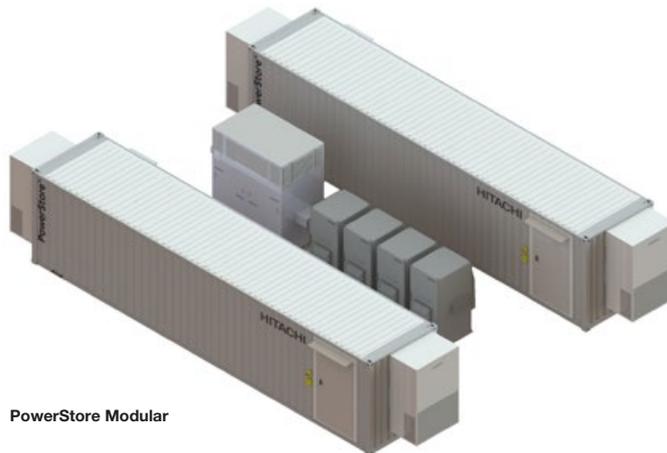
e-mesh PowerStore is available in different sizes and configurations and as integrated and modular versions. In the integrated version, the power conversion system (PCS) and battery modules are integrated into a single outdoor enclosure. In the modular version, the PCS and battery are housed in separate enclosures to achieve flexible power and energy ratings.

Covering a wide range of power ratings, from 250kW up to MW scale, the two versions are designed to provide grid stabilisation with added energy storage benefits for installations across utilities, remote communities, independent power producers, oil & gas and mining companies, defense and commercial and industrial establishments.





PowerStore Integrated



PowerStore Modular

Key automation features of the e-mesh PowerStore systems include:

Peak shaving

Reduce peak demand from your facility or power system.

Renewable shifting

Store excess renewable production to be used during peak demand hours.

Frequency and voltage support

Proprietary Virtual Generator Mode algorithms manage frequency and voltage excursions.

Renewable smoothing

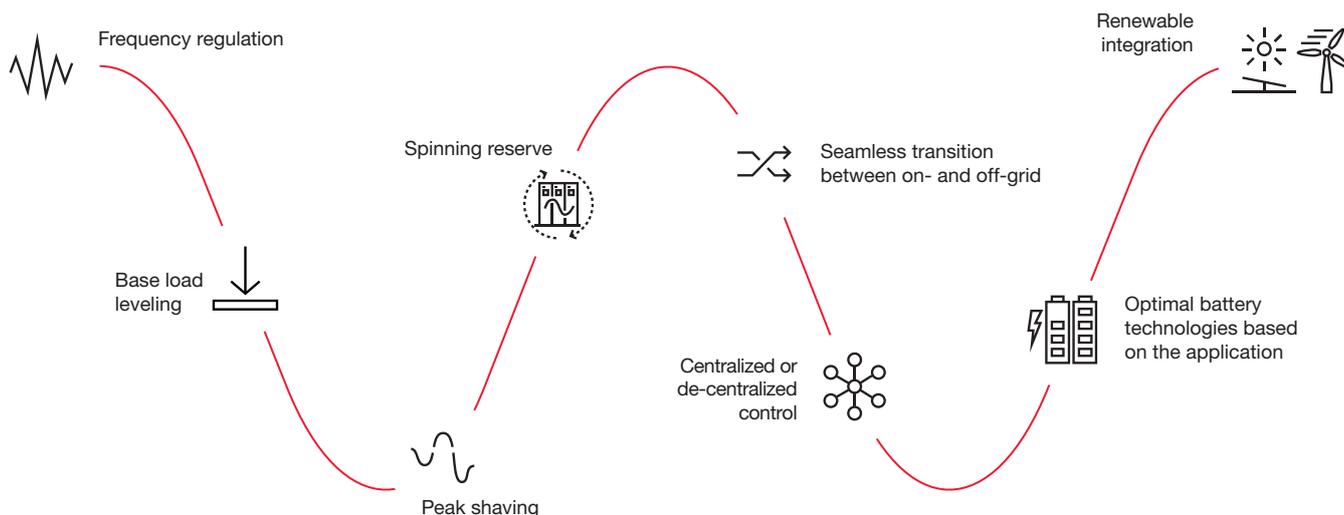
Smooth out the rapid fluctuations in power output from renewable generators and dynamic loads.

Microgrid/islanding

Grid-forming, seamless transition and black start capabilities to provide power in the event of utility disruption.

Cybersecurity

Ensures high level of cybersecurity according NERC-CIP and IEEE 1686.



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