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HITACHI

ECOSTORE MEGA

Fully-Integrated Sub-5MW Battery Energy Storage System (BESS)

Global Technology, Local Intelligence

EcoSTORE MEGA™ is a sub-5MW battery energy storage system integrated in Australia for Australian conditions and delivering a reliable, high-performance solution tailored to local network realities.

Built using high-efficiency LFP batteries and high-performance power conversion and control technology, EcoSTORE MEGA offers proven, predictable operation and

bankable reliability. Its modular, integrated architecture simplifies grid compliance, enables scalable deployment, and allows developers and utilities to expand capacity over time without disruption.

The result is a utility-scale energy storage system purpose-built to meet Australia's unique operational, regulatory, and commercial requirements.



A Bigger, Better Battery

The EcoSTORE MEGA is built around EVE Energy's "Mr Giant" 5 MWh battery containers. Mr Giant is a cutting-edge large-scale energy storage solution designed to meet the growing demand for long-duration, high-capacity battery systems in utility, commercial, and industrial applications.

At its core is a 5 MWh containerised energy storage system that integrates EVE's ultra-large-capacity 628 Ah battery cells into a streamlined architecture that

optimises energy density while simplifying installation and system design. The system has demonstrated stable performance with high round-trip efficiency (greater than 95 %)

This configuration positions Mr Giant as a flagship in EVE's portfolio of energy storage products, helping to support renewable energy integration, peak shaving, and grid stability amid increasing penetration of solar and wind power.

Hitachi Power Plant Controller

The Hitachi Energy Power Plant Controller (PPC) is the intelligent core of the EcoSTORE MEGA. Acting as the central brain of the power plant, the PPC precisely manages active and reactive power, voltage and frequency support, FCAS response, and market dispatch through a

VPP interface. Built on Hitachi Energy's deep power systems expertise, the PPC delivers reliable, future-ready control at the Point of Interconnection (POI), ensuring optimal performance, compliance, and flexibility in even the most demanding grid environments.

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Engineered by EcoJoule

EcoSTORE MEGA™ was designed and engineered in Australia utilising EcoJoule Energy's industry-leading expertise in battery performance, power conversion and control technology.

Built for Performance and Longevity

EcoSTORE MEGA's battery component achieves >95% round-trip efficiency and is designed for ≥96% system uptime in demanding utility applications. Includes seamless communication between battery DC systems and PCS/PPC layers.

Custom commissioning plans

Each EcoSTORE MEGA is supplied with a comprehensive installation and commissioning plan, including detailed operator training.

Reliable, optimised, all-in-one system

Fully integrated, compliant and optimised system designed to deliver predictable, stable performance across a wide range of Australian grid conditions.

Proven Tier-1 Technology Stack

EcoSTORE MEGA combines highly efficient LFP battery containers with Hitachi Energy PCS and PPC control systems to deliver bankable performance with globally proven technology.

Scalable Deployment Platform

EcoSTORE MEGA's modular sub-5 MW configuration supports standardised commissioning and consistent performance across multi-site rollouts.

Scan to learn more about EcoSTORE MEGA
or visit ecojoule.com/ecostore-mega

