Data center energy storage australia

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As the world shifts to renewable energy, the importance of battery storage becomes more and more evident. Intermittent sources of generation - wind and solar - are playing an increasing role during the transition, and as dispatchable plants leave the market, battery storage, along with pumped hydro and gas-fired generation, will become more critical to the grid. So, what does Australia"s storage capabilities look like, and what will be needed to meet our net zero targets? We take a look.

The growth in data centres brings with it increased energy demands and as a result the use of power has become the number one issue for their operators globally. Australia is seen as a country that will continue to see growth in data centres and Morgan Stanley Research has taken a detailed look at both the anticipated growth in data centres in Australia and what it might mean for our grid. We take a closer look.

Carbon Capture and Storage (CCS) is increasingly being seen as a vital piece to our emissions reduction puzzle, with governments and industry seeing it as viable way to reach Net Zero. Australia currently has 18 CCS projects at various stages of progress, with only one operational - Chevron"s Gorgon Gas Plant in Western Australia, which has been plagued with problems since the start. We take a deep dive into CCS and whether it can be a feasible option for the future.

Send an email with your question or comment, and include your name and a short message and we"ll get back to you shortly.

GE Vernova said it has been chosen by investment manager Quinbrook Infrastructure Partners to integrate 250 MW/1,000 MWh of battery energy storage into a major data center complex in Queensland, Australia.

Quinbook, with U.S. headquarters in Houston, Texas, and offices in the UK and Australia, is a specialist investment manager focused on the energy transition through renewables, energy storage, and grid infrastructure. The company’s Supernode project involves creation of a battery energy storage system (BESS) and data center. The BESS is expected to be among the largest such installations in Australia.

The 250-MW/1,000-MWh BESS (four-hour duration) is the second stage of a proposed three-stage project. GE Vernova earlier was awarded the contract for integration of a 250-MW/500-MWh BESS (two-hour duration) for the first phase of Supernode, which already is underway.

Quinsbrook Infrastructure Partner’s Supernode project involves the creation of a battery energy storage system (BESS) and data center complex in Queensland, Australia. The 750-MW (two- to four-hour duration) BESS site is expected to be one of the largest battery storage installations in the Australian national electricity market. Source: Quinbrook Infrastructure Partners

“We believe GE Vernova’s product portfolio, engineering expertise, and project delivery capabilities align perfectly with the needs of the Supernode project,” said Ed Torres, business leader of GE Vernova’s Solar & Storage Solutions business. “This project is a testament to the strength of our value proposition and capabilities in this space. We expect to continue to be a valued and trusted collaborator for large grid-scale integrated BESS projects in the region and around the world. We thank Quinbrook for their continued trust in GE Vernova as a technology partner for the Supernode project.”

GE Vernova is responsible for the supply and commissioning of the power conditioning systems, power plant controller SCADA systems, and capacitor bank/harmonic filter as well as integration engineering and GPS connection support.

800 MW Capacity Campus Set to Become One of the Largest in the Southern Hemisphere

BRISBANE, QUEENSLAND - 8th July 2022 - Quinbrook Infrastructure Partners ("Quinbrook"), a specialist investment manager focused exclusively on the new infrastructure needed for the energy transition, announced today the launch of one of the largest permit-approved data storage campus projects in the Southern Hemisphere.

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