

PIENAAR ENERGY (PTY) LTD

Malaysia power grid wind and solar energy storage power station



Overview

Malaysia is rapidly expanding solar and other intermittent renewable generation, creating strong momentum for energy storage. The country's first four large-scale grid-connected storage projects have attracted significant interest, with more than 20 companies. Sarawak Energy, commissioner of the 60 MW/82 MWh battery energy storage system (BESS), is one of the biggest utilities serving Sarawak, a Malaysian territory on Borneo island. Malaysian utilities company Sarawak Energy has commissioned what is described as the nation's first utility-scale battery. Malaysia's first homegrown BESS prototype was unveiled in late 2023 by Citaglobal, an engineering, energy and manufacturing conglomerate and Genetec Technology, a leader in industrial automation. The 1MW prototype known as MYBESS was showcased at a Genetec production plant in the town of Bangi. Located at the Sejingkat Power Plant in Kuching and energised in December 2024, the 60MW/82MWh BESS provides essential grid services, including primary spinning reserve (emergency reserve), voltage and frequency regulation and peak demand management, supporting the overall optimisation of power. With the growing demand for reliable electricity supply, Sarawak Energy has recently commissioned the first utility-scale Battery Energy Storage System (BESS) in Malaysia.

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Built on over two decades of global R&D and manufacturing excellence, our solutions bring grid resilience and lower energy costs to homes, industries, and cities across Malaysia.

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Malaysia's energy gets smarter with the rise of grid-scale battery storage

This project, co-located with a retiring coal power station, is Malaysia's first utility-scale deployment, marking a leap forward in reliability and modern grid design.



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Energy Transition Challenges in Malaysia: A focus on

Power generation in Malaysia is primarily from coal, gas and hydro, with the remaining from other renewable energy sources comprising solar and bioenergy (i.e. biomass, biogas, waste-to-energy).

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ALLTOP energy storage power plant solutions help Malaysia's green

The project not only uses ALLTOP's advanced battery technology integration solution, but also plays a key role in the stable operation of the grid, the large-scale deployment of renewable ...

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Malaysia's first large-scale grid storage projects draw over 20 bidders

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Malaysia commissions its first big BESS at coal-fired power plant site

It supports the overall optimization of power generation and grid systems. Sarawak also plans to assess the BESS's ability to integrate intermittent renewable energy sources, such as solar.

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Benefits of energy storage systems and its potential



applications in

The findings include discussions on key opportunities and applicability of energy storage systems in Malaysia's power systems, taking into account the renewable energy development ...

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Malaysia Power Grid Wind and Solar Energy Storage Power Station

This project is to study the feasibility of a hybrid plant as compared standalone solar and wind power plants in areas pertaining to the reliability and sustainability of our energy sources.



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Sarawak Energy Strengthens Grid Resilience With Battery Energy Storage

With the growing demand for reliable electricity supply, Sarawak Energy has recently commissioned the first utility-scale Battery Energy Storage System (BESS) in Malaysia.

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BESS programme: A game changer for the Malaysian energy ...

Essentially, BESS is a collection of batteries to store electrical energy, and a crucial component in balancing fluctuations in RE output, especially solar power, and preventing sudden ...

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