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Overview

Why is battery energy storage system important in Indonesia?

However, given the challenge of Indonesia's geological landscape, with many off-grid and remote areas, there is growing intermittency issue that hamper the development of solar and wind generation. Hence, the battery energy storage system (BESS) technologies have a critical role in the development of Indonesia's renewable energy.

Where does Indonesia reliance on coal-based power plants come from?

This reliance on coal-based power plants comes from the coal mining industry in Indonesia. According to Ministry of Energy and Mineral Resources (Indonesia), the country produced around 687.43 million metric tons of coal in 2022, an increase of around 12% in coal production as compared to 2021, i.e., 613.99 million metric tons.

Is Indonesia a market in the energy transition?

Indonesia is a market in the energy transition as the country is moving from fossil fuels to clean energy resources. In 2023, Indonesia derived approximately 60% of its energy from coal, while renewable energy's contribution is estimated at about 15%.

Will Tesla invest in Indonesia's battery energy storage system sector?

There have been talks with Tesla, with plans to invest in Indonesia's Battery Energy Storage System sector. Tesla has an outstanding reputation in its production of technology that is carbon neutral. The BESS produced and used by Tesla has a relatively low negative environmental impact.

How big is the Indonesia power market?

Image © Mordor Intelligence. Reuse requires attribution under CC BY 4.0. The Indonesia Power Market size in terms of installed base is expected to grow from 90.83 gigawatt in 2025 to 113.79 gigawatt by 2030, at a CAGR of 4.61%

during the forecast period (2025-2030).

What is the largest unit capacity of hydropower plant turbine in Indonesia?

The largest unit capacity of hydropower plant turbine which has ever been installed in Indonesia is 175 MW at PLTA Saguling, West Java. Hydropower helps to maintain the power frequency by continuous modulation of active power, and to meet moment-to-moment fluctuations in power requirements.

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