



# Nordic energy storage Indonesia

Does Indonesia need battery storage?

Indonesia aims to convert 250MW of diesel-generated power to renewable energy this year and will need battery storage to do this successfully. Image: PLN. Indonesia's state-owned utility and battery producer have launched a 5MW battery energy storage system (BESS) pilot project as it seeks to move away from diesel-generated power.

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.

Does Indonesia have a grid-connected energy storage system?

There, the global system integrator Fluence recently turned on a 20MW/20MWh grid-connected BESS as part of a 1,000MW portfolio in development and construction for power company SMC Global Power. Indonesia's current pipeline of energy storage projects is mostly pumped hydro, totalling 4,063MW according to IHS Markit.

How will Norway contribute to Indonesia's energy transition?

The partnership aims to mobilize USD 20 billion to accelerate Indonesia's energy transition, of which half should be through mobilized private finance. Norway's contribution was a pledge that up to 250 million USD could be invested by the Climate Investment Fund in the country.

Does Indonesia need solar & wind energy storage?

Although, there is no policy mandating the installation of energy storage in solar or wind projects in Indonesia, the abundance of solar and wind resources in Indonesia's archipelago and increased potential demand across industries indicate that BESS demand is poised to grow substantially in the near future.

Are Norway & Indonesia collaborating on energy?

"Norway and Indonesia have had close energy cooperation over the past thirty years. The Climate Investment Fund contributes to further strengthening this collaboration.

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In 2023, Indonesia derived approximately 60% of its energy from coal, while renewable energy's contribution is estimated at about 15%. By 2025 and 2030, the Indonesia government aims to achieve the target of 23% and 30% ...

Indonesia has recently launched a 5 megawatt Battery Energy Storage System (BESS). The new energy storage system is a device that enables energy from renewables to be stored and then released based on the needs of the customer.

Indonesia berencana membangun beberapa pumped storage dalam 10 tahun ke depan. Perencanaan dan pembangunan pumped-storage Cisokan, Bandung Barat, kapasitas 1.040 MW di Indonesia telah dimulai...

Pelbagai solusi ditawarkan untuk mengatasi permasalahan ini diantaranya menggunakan energy storage (ES), interkoneksi antar pembangkit, smart grid, maupun manajemen energi di sisi demand [4].

This paper, on the long-term planning of energy storage configuration to support the integration of renewable energy and achieve a 100 % renewable energy target, combines multiple energy storage capacity options while also determining the timing and location and using the Indonesian electricity system as the test case.

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