

Indonesia's power plant energy storage policy

Will Indonesia build a 100 GW solar power plant?

Jakarta, August 7, 2025 - Indonesia will build a 100 Gigawatt (GW) Solar Power Plant (PLTS). The program plans to build 80 GW of solar power plants and 320 GWh of Battery Energy Storage System (BESS) to be managed by the Merah Putih Village Cooperative (KDMP) in 80,000 villages, and 20 GW of Centralized solar power plants.

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.

Can solar power plants be used in Indonesia?

Indonesia possesses solar energy potential with a capacity ranging from 3,300 GW to 20,000 GW, spanning from Sabang to Merauke. With increasingly affordable, modular, and easy-to-build and operate solar power plant (PLTS) technology, this project could serve as a strategic solution to provide reliable and affordable energy access across Indonesia.

How does Indonesia's electricity system work?

Indonesia's electricity system can be powered predominantly by solar PV, complemented by geothermal and hydroelectric power. Off-river pumped hydro energy storage is identified as a major asset for balancing high solar energy penetration.

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 big is Indonesia's electricity capacity?

In the past ten years, Indonesia has experienced a substantial expansion in its electricity capacity, which has grown from 45.2 GW in 2012 to 79.8 GW by 2022 (Ministry of Energy and Mineral Resources Indonesia, 2023), as shown in Fig. 1. Including off-grid sources, the total capacity reaches 83 GW.

The government of Indonesia has eased import rules for solar power plants in a bid to bolster the development of renewables projects.

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This research offers crucial insights for energy policy and infrastructure development in renewable energy and storage system implementation.

Sembcorp Industries unveils Indonesia's first utility-scale solar and energy storage gem, paving the way for a greener future with 50 MW of solar power and innovative battery ...

Indonesia is planning to develop a vast energy storage system to minimize the carbon pollution and supporting the renewable energy program

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The energy storage and the intermittent RE plant is considered as one integrated RE facility, hence the renewable energy sales between IPP(s) and PLN are calculated based on the ...

Fossil power plants will be retrofitted using Carbon Capture and Storage (CCS) technologies. Additionally, some gas-fired power stations will ...

On March 4, 2025, the Ministry of Energy and Mineral Resources (MEMR) Indonesia ratified the Ministerial Regulation (Permen) ESDM Number 5 of 2025 on Guidelines for Power Purchase ...

JAKARTA -- As much of the world shuts coal power plants and shelves new proposals, Indonesia is bucking the trend -- adding the third-highest volume of coal capacity ...

The plant was inaugurated just a week after Indonesia completed the first draft of its comprehensive investment and policy strategy under the Just Energy ...

IESR's Social, Policy, and Economic Research Coordinator, Martha Jesica Mendrofa, revealed six key regions identified as the most ...

Significant progress has been made in Indonesia's energy storage sector, influenced by various factors including technological innovations, regulatory frameworks, and ...

5 hours ago; Long-Duration Energy Storage (LDES) is crucial for balancing supply and demand over days and seasons, enabling a reliable supply of Indonesia renewable energy.

Indonesia's Energy and Mineral Resources Ministry has officially released the country's 2025-2034 Electricity Supply Business Plan (RUPTL), ...

a hypothesis on the ability of PLN, the Government of Indonesia, and the power sector to cope with early

retirement. The hypothesis that the Government of Indonesia (GOI) is an enabler for ...

The Indonesian government has ratified the PLN Electricity Supply Business Plan (RUPTL) 2025-2034, targeting 42.6GW of new renewable ...

The plant was inaugurated just a week after Indonesia completed the first draft of its comprehensive investment and policy strategy under the Just Energy Transition Partnership ...

Indonesia's coal phase-out requires boosting renewables to 65% by 2040, integrating battery storage, and retiring 3 GW of coal annually.

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PDF | On Sep 3, 2024, Alfian Muhammad Reza and others published Carbon Capture & Storage for Indonesia Coal-Power Plant: Opportunity or Gimmick? | Find, read and cite all the research ...

Indonesia's state-owned utility and battery producer have launched a 5MW battery energy storage system (BESS) pilot project as it ...

Fossil power plants will be retrofitted using Carbon Capture and Storage (CCS) technologies. Additionally, some gas-fired power stations will be converted to run entirely on ...

Accelerating the energy transition is important to bring Indonesia into this circle. Zainal Arifin, EVP of Renewable Energy, PT PLN, said that the ...

The new initiative features plans for 1 MW solar minigrids tied with 4 MWh of accompanying battery energy storage, to be deployed across 80,000 villages, alongside 20 ...

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This seventh edition of the guide has been updated to reflect the regulations issued up to 1 July 2023, including a focus on ESG strategy and disclosure, ...

This solar power plant and its storage system are not merely environmental milestones; they also enhance Indonesia's energy sovereignty by reducing reliance on imported fossil fuels. ...

However, a gap persists in the academic literature focusing on biomass power plants under these new tariffs. This study examines the role of biomass power plants (BPP) in ...

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