

# **Indonesia Independent Energy Storage Project**





## Overview

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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 GW of centralized solar power plants. The Indonesian government has revealed a new initiative aiming to deploy 100 GW of solar. Is energy storage developing in Indonesia?

IESR has issued a report for the first time assessing the development of energy storage in Indonesia in *Powering the Future: An Assessment of Energy Storage Solutions and The Applications for Indonesia*.

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 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.

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.

Can solar energy be a strategy to meet Indonesia's energy goals?

Solar energy can be a strategy to meet this target," said Deon Arinaldo,



Program Manager of Energy System Transformation, at the launch of the Indonesia Solar Energy Outlook 2025 study report – Breaking the Walls: The Future of Indonesia’s Solar Energy and Energy Storage Innovations (15/10/2024).

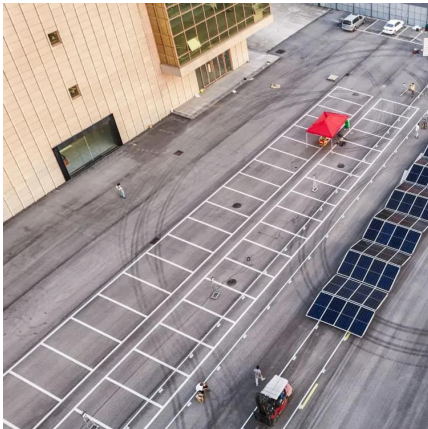
What are some potential energy storage projects in ASEAN?

Other potential energy storage projects are the Cirata projects—the largest floating solar planned for ASEAN at 145 MW in Purwakarta region, West Java and eastern parts of Indonesia such as 2x50 MW in Bali and 70MW in the new capital, the city of Nusantara, East Kalimantan.



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### PLN tenders ESIsAs for Grindulu and Sumatra pumped-storage projects

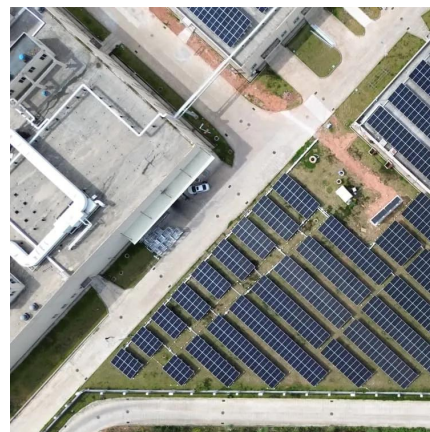
Indonesia's state-owned, vertically-integrated power utility, PT Perusahaan Listrik Negara (PT PLN) invites expressions of interest by 5 September from eligible consulting firms ...

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### Sembcorp and PLN Nusantara Power Launches First Utility-Scale

The NSSE Power Plant, built on approximately 87 hectares of land, is the first utility-scale integrated solar and energy storage project in Nusantara, Indonesia.

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### Sembcorp launches Indonesia solar-plus-BESS project with state ...

PT Sembcorp Renewables Indonesia, a wholly owned subsidiary of Singapore-headquartered engineering firm Sembcorp, and state-owned PT PLN Nusantara Renewables ...

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### Choosing the Best Long-Duration Energy Storage Solution for Indonesia

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.

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### Enabling Renewable Energy through Lower Cost and Longer ...

Redox Flow Battery (RFB) global deployment history and present barrier Redox flow battery energy storage systems (RFB-BESS) have been deployed worldwide since their ...

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### Indonesia announces bold 320 GWh distributed battery storage plan

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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### TotalEnergies and RGE Ink Co-Investment Agreement to ...

Indonesia & Singapore, 28 May, 2025:  
TotalEnergies and RGE, through their equally-owned joint venture Singa Renewables (Singa), have entered into a Co-Investment ...

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## What are the energy storage projects in Indonesia? , NenPower

Recognizing the importance of this sector, Indonesia has initiated several prominent energy storage projects that not only support its sustainability goals but also ...

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## [Sembcorp cancels Indonesia solar-plus-storage project](#)

Energy-Storage.news' publisher Solar Media will host the 1st Energy Storage Summit Asia, 11-12 July 2023 in Singapore. The event will help give clarity on this nascent, yet ...

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## RENEWABLE ENERGY IN INDONESIA:

In the past, fuel subsidies and low electricity tariffs, logistical challenges, complex regulations, legal uncertainties and, not least, the abundance of cheap coal, deterred potential investors ...

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## Optimal energy storage configuration to support 100 % renewable energy

Presents findings that are applicable for strategic planning by governments and utility companies, particularly for energy storage and renewable energy expansion in Indonesia.

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### Mapping Growth Opportunities for Solar Energy and Energy Storage ...

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### 100 GW Solar Power Plant for Indonesia's Energy Self ...

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 ...

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### Indonesia launches first containerised energy storage system

The CBESS solar energy system operates off-grid, making it independent of the national electricity grid. Solar energy generated during the day is stored in batteries and ...

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