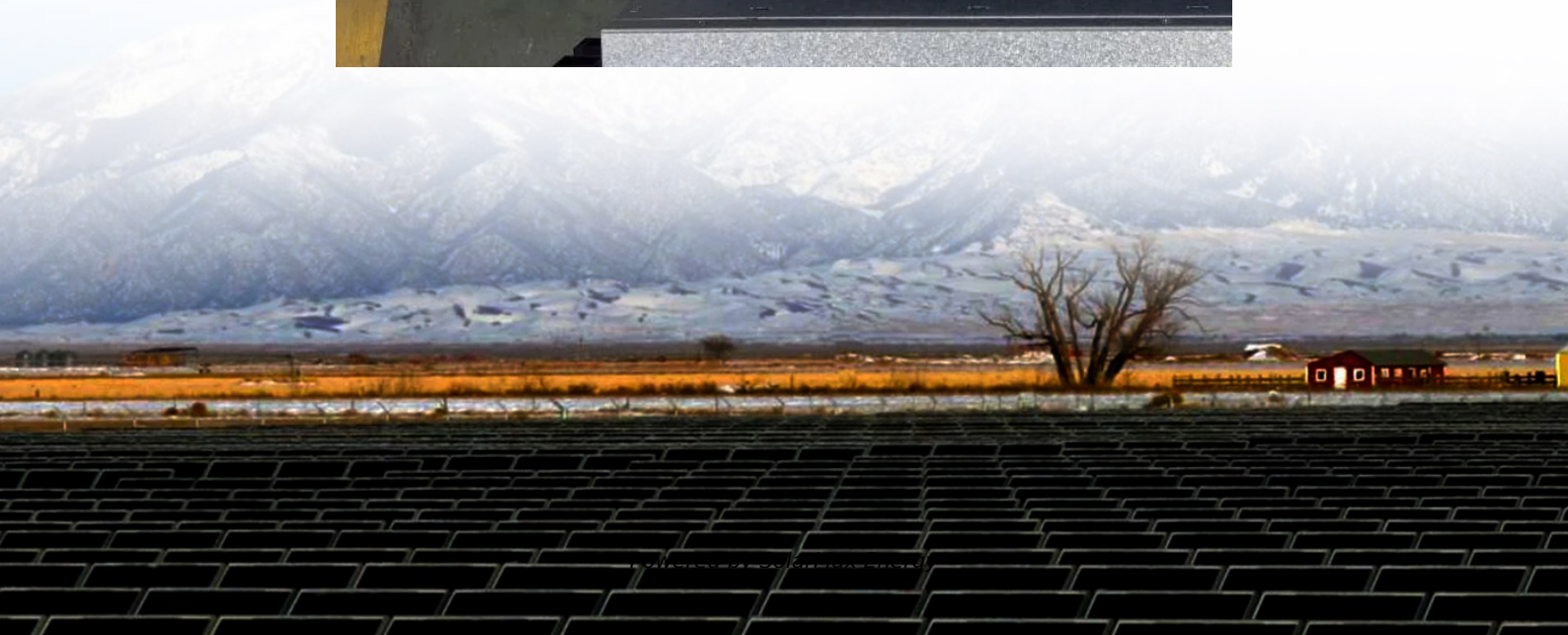
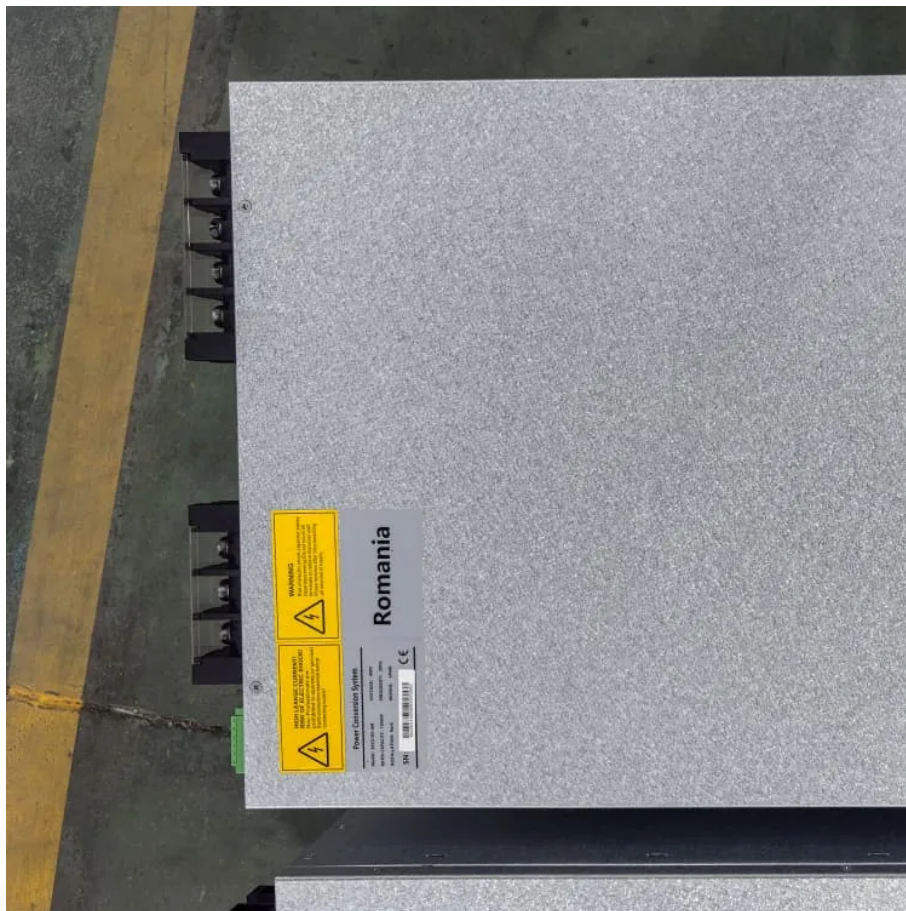


# Indonesia s key energy storage projects in 2025





## Overview

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Indonesia is currently building on its storage capacity through the planned/ongoing installation of 5 MW battery energy storage systems (BESS), linked to PLN's renewable sites. Indonesia is also building its first utility-scale integrated solar and energy storage project in Nusantara. What is Indonesia doing with its energy storage capacity?

Indonesia is currently building on its storage capacity through the planned/ongoing installation of 5 MW battery energy storage systems (BESS), linked to PLN's renewable sites. Indonesia is also building its first utility-scale integrated solar and energy storage project in Nusantara.

Does Indonesia have a battery energy storage system?

To work around this, electricity can be generated during the country's windy or sunny periods, and the excess can be stored for use in latent periods. Indonesia is currently building on its storage capacity through the planned/ongoing installation of 5 MW battery energy storage systems (BESS), linked to PLN's renewable sites.

How can renewables improve Indonesia's energy security?

Raising renewables will improve Indonesia's energy security, with solar become the most cost effective solution to supply electricity beyond 2030 (based on IESR's IETO model). Reinforcing grid infrastructure and operation is crucial with a higher RE share, especially post-2030. future system with high shares of renewable energy.

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 is Indonesia's potential for solar energy?

Indonesia's technical potential for solar ranges from 3,300 GW to 20,000 GW, according to IESR estimates, while the country's long-term energy policy targets up to 108.7 GW of solar by 2060. If implemented effectively, the program could redefine Indonesia's energy landscape and serve as a global benchmark for large-scale distributed renewables.

Why is accelerating the energy transition important in Indonesia?

Accelerating the energy transition is important to bring Indonesia into this circle. Zainal Arifin, EVP of Renewable Energy, PT PLN, said that the combination of VREs and energy storage systems such as batteries will be a game changer for overall energy supply.



## Indonesia s key energy storage projects in 2025

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### [Realizing Indonesia's ambitious renewable energy ...](#)

Indonesia's current approach to renewable energy development through the state utility PT Perusahaan Listrik Negara (PLN) - based on ...

### [Singapore and Indonesia deepen green energy ...](#)

Singapore and Indonesia have inked three key agreements to strengthen cooperation in clean energy and sustainable development, in a ...



### [Key Facts about Indonesia's Energy Storage System](#)

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

## Powering Indonesia's future: Key takeaways from the 2025-2034 ...

Strategic engagement, policy clarity, and regulatory reform will be critical to unlocking the full potential of Indonesia's energy transition.

Authored by Matt Bubbs, Mochamad ...





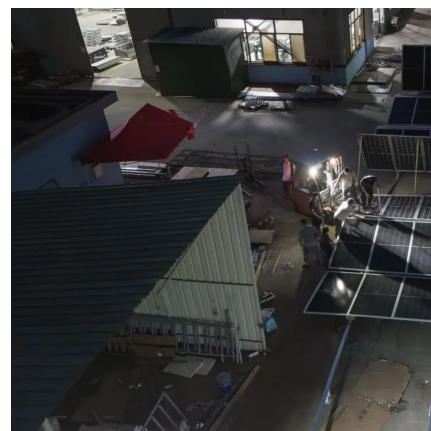
## [Session 2A\\_100% Renewable Energy Island Indonesia\\_IESR](#)

Indonesia's total cumulative installed energy storage capacity has reached around 35 MWh by mid-2024, primarily from BESS installations in distributed, isolated systems supporting solar ...



## **Energy Storage Rides a Wave of Growth but Uncertainty ...**

Continued expansion of intermittent renewable energy, ESG-focused investments, the growing versatility of storage technologies to provide grid and customer services, and declining costs ...



## **PPT ESS 2024**

Recommendation Energy storage is a critical component to decarbonize power systems. Energy storage enables high level integration of variable renewable energy and could make the ...





## Indonesian President Prabowo Subianto Announces ...

Jakarta, March 18, 2025 - The Europe Today: Indonesian President Prabowo Subianto has announced that his government plans to launch 30 strategic ...



## **Indonesia's RUPTL outlines faster growth in fossil fuel use, ...**

Key findings Indonesia's new RUPTL 2025-2034 outlines an increase of more than 40% in power generation from coal and gas from 2024 to 2034. By 2030, fossil power ...

## The Future Of Renewable Energy In Indonesia: 2025 ...

Indonesia is currently building on its storage capacity through the planned/ongoing installation of 5 MW battery energy storage systems (BESS), ...



## **Indonesia plans to invest 40bn USD in energy projects in 2025**

Indonesia, the largest economy in Southeast Asia, has revealed its intention to invest 40 billion dollars (38.1 billion euros) in 2025 in 21 major energy projects.



## Indonesia plans to invest 40bn USD in energy projects ...

Indonesia, the largest economy in Southeast Asia, has revealed its intention to invest 40 billion dollars (38.1 billion euros) in 2025 in 21 major energy projects.



## The Future Of Renewable Energy In Indonesia: 2025 And Beyond

Indonesia is currently building on its storage capacity through the planned/ongoing installation of 5 MW battery energy storage systems (BESS), linked to PLN's renewable sites. Indonesia is ...

## Indonesia Unveils Electricity Supply Business Plan ...

The 2025-2034 Electricity Supply Business Plan aligns with Indonesia's National Energy Policy and General Plan for Electricity, and forms ...



## CREA\_[EN] IDN Briefing

1 day ago· Furthermore, RUPTL 2025-2034 includes more geothermal, hydro, wind, and bioenergy projects from the JETP CIPP compared to RUPTL 2021-2030, but less for solar ...



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

IESR has issued a report for the first time assessing the development of energy storage in Indonesia in Powering the Future: An ...



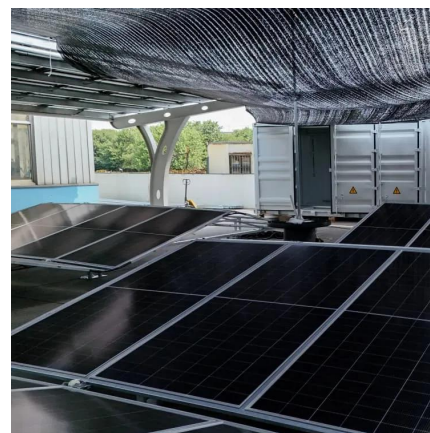
## **Indonesia announces bold 320 GWh distributed battery storage plan**

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 ...



## **Indonesia Unveils 100 GW Solar Initiative With Massive 320GWh ...**

Operated by the village cooperative Merah Putih, these solar-plus-storage mini grids aim to provide affordable, reliable power while reducing dependence on costly diesel ...



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

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 ...





## [Indonesia to Offer Energy Projects Worth \\$40 Billion ...](#)

The Energy Minister said Indonesia seeks to boost coal gasification projects using funding from its newly launched sovereign wealth fund Danantara.

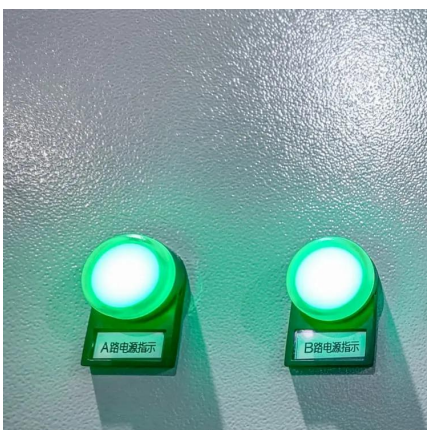
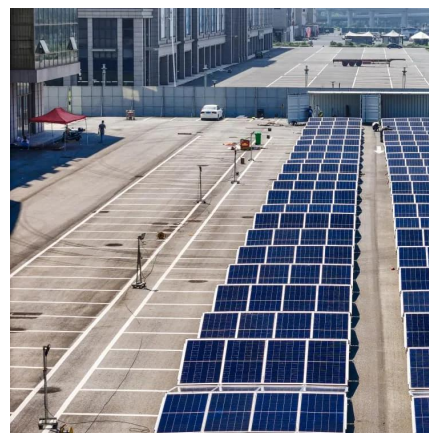


## [Full Summary of Indonesia's RUPTL 2025-2034](#)

Of this, 76% will come from renewable energy sources such as solar, hydro, wind, and geothermal, supported by energy storage systems like ...

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

PT Sembcorp Renewables Indonesia, part of Sembcorp, and PT PLN Nusantara Renewables have launched a solar-plus-storage project in Indonesia.



## **Indonesia and Singapore Sign Strategic Green Energy MoUs ...**

On June 13, 2025, Indonesia and Singapore signed a landmark set of three Memoranda of Understanding (MoUs) aimed at strengthening bilateral cooperation in renewable energy ...



## [Powering Indonesia's future: Key takeaways from the ...](#)

Strategic engagement, policy clarity, and regulatory reform will be critical to unlocking the full potential of Indonesia's energy transition. Authored ...



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

5 hours ago · In the context of CIIC 2025's Energy Transition track, prioritizing proven gravity-storage projects while continuing to explore thermal storage pilots offers the best balance. By ...



## [Full Summary of Indonesia's RUPTL 2025-2034](#)

Of this, 76% will come from renewable energy sources such as solar, hydro, wind, and geothermal, supported by energy storage systems like batteries and pumped-storage ...



## [Indonesia Has 333 GW of Financially Viable ...](#)

These factors can enhance the attractiveness of renewable energy projects for investors," said Martha. Pintoko Aji, Research Coordinator of ...



## [Indonesia RUPTL 2025-2034: Impact on Energy Projects](#)

Indonesia RUPTL 2025-2034 outlines renewable targets and major investment opportunities. Learn what this means for energy projects.



## **Choosing the Best Long-Duration Energy Storage Solution for ...**

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