

Indonesia Energy Storage Power Station Investment Plan





Overview

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.

Will Indonesia increase its power capacity by 71gw?

Credit: FarisFitrianto/Shutterstock. Indonesia plans to increase its power capacity by 71GW up to 2034 with a significant focus on private investment. The government, together with PT PLN (Persero), will prioritise the development of transmission lines to support renewable energy generation, according to Energy Minister Bahlil Lahadalia.

What is Indonesia's energy storage capacity?

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 PV generation. Installed energy storage capacity could exceed 30 GWh by 2030, based on announced projects.

How big is Indonesia's solar energy potential?

Despite the vast potential of solar energy power generation across Indonesia, the scale of the sector has been mostly untapped, with approximately 150 MW of solar capacity installed by end 2019. Solar has an estimated potential of more than 200 GW (footnote 17).

How much power does Indonesia have?

According to the report, Indonesia currently has an installed power capacity of 101GW, with 75GW managed by PLN. Renewables comprise 15% of the energy mix, while coal dominates more than half. Indonesian officials indicate



that 70% of the new power plants will utilise renewable energy, potentially including nuclear and hydrogen sources.

How many power plants will be built in Indonesia?

The plan includes 48,000km of circuit transmission lines, equivalent to 8,000km in a straight line. The lines will support 60% of the new power plants to be developed by the private sector. The announcement was made during the launch of 26 power plants that recently began operations across Indonesia.



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[Advancing Renewable Energy in Indonesia: A ...](#)

Indonesia's commitment to the early retirement of coal-fired power plants (CFPPs) underscores the urgent need to transition to renewable energy ...

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Vision for Indonesia's 2050 power generation: Scenarios of ...

Abstract Indonesia's energy sector faces critical challenges due to its heavy reliance on coal as the dominant power source, which contributes to environmental degradation and ...

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Indonesia Unveils 2025-2034 Power Plan, Eyes Expansion of ...

Under the plan, state-owned electricity company PLN aims to add 69.5 gigawatts (GW) of new power capacity by 2034. Of that total, 42.6 GW (or roughly 61%) will come from ...

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[Indonesia Clean Energy Battery Storage System](#)

This wind power project plans to generate 70 MW in Tanah Laut, Kalimantan utilizing 10 MW of BESS technology. PLN and Indonesia Battery Corporation (IBC), the state ...



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[Indonesia plans 71GW power plant expansion](#)

Indonesia plans to increase its power capacity by 71GW up to 2034 with a significant focus on private investment. The government, together ...

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[INDONESIA ENERGY SECTOR ASSESSMENT, ...](#)

This energy sector assessment, strategy, and road map (ASR) updates the state of the energy sector in the Republic of Indonesia since the 2016 publication of Indonesia Energy Sector ...

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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's Aggressive Renewable Energy Policies ...

However, development in the renewable energy industry is a small victory, and more effort is needed to put Indonesia on a low-carbon emission path. Efforts ...

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Indonesia plans 69.5 GW of new power capacity by 2034

Although the plan outlines substantial investment prospects, the financing mechanisms remain to be detailed. The government relies on significant private sector participation to meet its ...

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CIF ACT Investment Plan (IP)

In FY21-24, IFC will focus on supporting private sector on the development projects such as wind power and battery storage, floating solar project, hydro power plant, and waste-to-energy ...

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Indonesia ratifies plans for 42.6GW of renewable ...

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

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Indonesia defies global trend, expands captive coal power capacity

At this rate, Indonesia is teetering on the edge of energy transition failure," he added. Indonesia also plans to extend coal plant lifespans through expensive retrofitting with ...

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Mapping Growth Opportunities for Solar Energy and ...

This achievement shows that solar energy growth can be a key strategy for reducing emissions in the electricity sector.

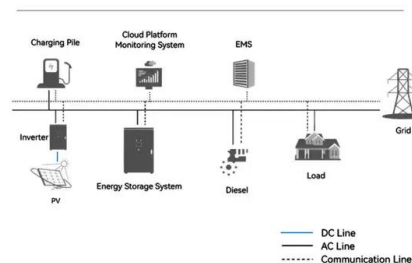
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Final Report: Wind Energy Development in Indonesia

This Final Report is based on the Wind Energy Development in Indonesia: Investment Plan project initiated by the Ministry of Energy and Mineral Resources, managed ...

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System Topology



Indonesia building 5MW pilot battery storage

The country's state-owned utility PLN has signed a memorandum of understanding with another state-owned body, the Indonesia Battery ...

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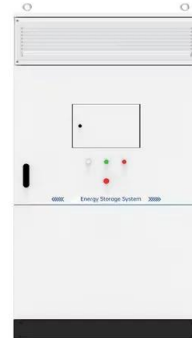




Indonesia aims to add 69.5 GW of new power capacity between ...

The Ministry of Energy and Mineral Resources of Indonesia has unveiled the Electricity Supply Business Plan (RUPTL) of the national power utility PT PLN over the 2025 ...

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Optimal energy storage configuration to support 100 % renewable energy

This study presents a renewable energy (RE) optimization study to model the pathway to achieve 100 % carbon abatement, focussing on options for storage, using ...

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Indonesia Unveils 2025-2034 Power Plan, Eyes ...

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Indonesia ratifies plans for 42.6GW of renewable energy capacity ...

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

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[Indonesia building 5MW pilot battery storage](#)

The country's state-owned utility PLN has signed a memorandum of understanding with another state-owned body, the Indonesia Battery Corporation (IBC), to build the BESS ...

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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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Indonesia trims gas and backs renewables in latest power plan

Indonesia aims to boost the buildout of renewable energy in its latest national power plan, scaling back gas additions to the grid. Southeast Asia's largest economy will look ...

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50KW modular power converter



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

Indonesia has recently launched a 5 megawatt Battery Energy Storage System (BESS). The new energy storage system is a device that ...

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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 ...

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[Indonesia plans 71GW power plant expansion](#)

Indonesia plans to increase its power capacity by 71GW up to 2034 with a significant focus on private investment. The government, together with PT PLN (Persero), will ...

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Indonesia's new power development plan: Highlights from the ...

In brief, the 2025-2034 RUPTL calls for a considerable amount of investment in new power generation (69.5GW) and transmission assets with a focus on new and renewable ...

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Indonesia plans 69.5 GW of new power capacity by 2034

Energy mix and source diversification The 2025-2034 plan includes 42.6 GW of new capacity from renewable sources such as solar, hydropower, and geothermal energy. It also comprises ...

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