

Indonesia s solar power generation





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.

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.

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.

Will Indonesia add more solar power to its electricity supply business plan?

Under its Electricity Supply Business Plan for 2025-2034, Indonesia aims to add 17.1 GW of solar capacity (see Indonesia To Add 42.6 GW Renewables By 2034 Under RUPTL). Additionally, IESR adds that the country also plans to export a capacity of 3.5 GW AC to its neighbor, Singapore.



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Indonesia Unveils 100 GW Solar Initiative With Massive ...

Aug 12, 2025 · Indonesia Unveils 100 GW Solar Initiative With Massive 320GWh Battery Storage Rollout Indonesia has announced an ambitious plan to deploy 100 GW of solar power ...

Indonesia's Vast Solar Energy Potential

Sep 6, 2024 · Importantly, Indonesia has a vast maritime area that almost never experiences strong winds or large waves that could host floating ...

Indonesia's Solar Future

Oct 24, 2025 · Indonesia is the world's largest exporter of thermal coal, and the state grid, Perusahaan Listrik Negara (PLN), relies on domestic supplies to power two-thirds of electricity ...

Indonesia targets 35% renewable energy led by solar, hydro, ...

Feb 12, 2025 · Indonesia has unveiled its updated National Power Supply Plan (RUPTL), projecting an additional 71GW of installed capacity over the next decade, with a focus on solar, ...

Indonesia unveils plan for 100 GW of solar

Aug 11, 2025 · The new initiative features plans for 80 GW of 1 MW solar minigrids with accompanying battery energy storage, to be deployed ...

100 GW Solar Power Plant for Indonesia's ...

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Indonesia's Vast Solar Energy Potential

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Indonesia ratifies plans for 42.6GW of ...

Jun 2, 2025 · Indonesia has ratified the PLN Electricity Supply Business Plan 2025-2034, targeting 42.6GW of renewable energy generation.



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Indonesia's 108.7 GW Solar Goal Needs Industry Plan: IESR

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