



FTMRS SOLAR

Indonesia solar power generation system





Overview

The new initiative features plans for 80 GW of 1 MW solar minigrids with accompanying battery energy storage, to be deployed across 80,000 villages, alongside 20 GW of centralized solar power plants. 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.

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.

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.

Will Indonesia's solar power plant demand increase by 2060?

Recently, IESR said the government targets increasing demand for solar power plants reaching up to 108.7 GW by 2060 (see Indonesia's 108.7 GW Solar Goal Needs Industry Plan: IESR). Within H1 2025, Indonesia's installed power generation capacity increased by 4.4 GW year-on-year.



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Indonesia's Solar Future

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Indonesia Announces 100 GW Solar Power Capacity Plan

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Introduction One of the world's largest floating solar photovoltaic (PV) power plants, Cirata, is under ...

Indonesia new programme targets 100GW solar PV, 320GWh ...

Aug 12, 2025 · The government of Indonesia has launched a programme that aims to build 100GW of solar PV and 320GWh BESS in the coming years.

Indonesia: A Nation Rich in Unrealized Solar Energy Potential

Dec 2, 2025 · The remaining 20% is distributed via thousands of isolated systems that are mostly fueled by diesel generators, opening up opportunities to replace them with solar energy ...

Indonesian Solar Panels: Development, Benefits and

May 5, 2024 · Source: Ministry of Energy and Mineral Resource (2024) The above sectors, especially businesses and industries in Indonesia, certainly could contribute more so that the ...

Scaling Up Solar in Indonesia

Sep 7, 2021 · Solar holds the key to power sector decarbonization Accelerating solar build to meet 2025 targets: Indonesia wants renewable energy to account for 23% of primary energy by ...

Indonesia Unveils 100 GW Solar Initiative With Massive ...

Aug 12, 2025 · Indonesia has announced an ambitious plan to deploy 100 GW of solar power nationwide, combining large-scale generation with an unprecedented rural electrification push. ...

Solar Power Plants in Indonesia: Locations, ...

Sep 9, 2024 · Conclusion The growth of solar power plants in Indonesia represents a critical step towards a sustainable energy future. With its ...

Mapping Growth Opportunities for Solar ...

Oct 16, 2024 · Accelerating the energy transition is important to bring Indonesia into this



circle. Zainal Arifin, EVP of Renewable Energy, PT ...

Executive summary - Enhancing Indonesia's ...

5 days ago · The power sector should put renewables, in particular solar PV, at the centre of planning and start adapting operating practices to enable ...

Indonesia unveils plan for 100 GW of solar

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

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Photovoltaic (PV) solar power plants in ...

Mar 2, 2025 · Technological advancements in solar energy are also propelling the growth of solar power plants in Indonesia. The introduction ...

Indonesia targets 100 GW solar capacity, with focus on rural

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ENERGY PROFILE Indonesia

Distribution of wind potential Annual generation per unit of installed PV capacity (MWh/kWp)
Wind power density at 100m height (W/m2)

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Indonesia new programme targets 100GW ...

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Indonesia: Launch of a Solar Power Plant with ...

Dec 4, 2025 · Indonesia takes a significant step in its energy transition with the launch of its first solar power plant integrated with an energy storage ...

Solar Power Plants in Indonesia: Locations, Impacts, and ...

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step towards a sustainable energy future. With its immense solar potential, strategic locations for ...

Enabling High Share of Renewable Energy in Indonesia's ...

Jan 31, 2023 · tions of a higher renewable energy penetration to Indonesia's power system. Renewable energy sources used as candidate power plants in this study were solar, wind, and ...

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