

SolarInnovate Energy Solutions

Indonesia Solar Power 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. 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 deploy 100 GW of solar?

The Indonesian government has revealed a new initiative aiming to deploy 100 GW of solar. The distributed solar for energy self-sufficiency program encompasses 80 GW of solar that will be deployed as 1 MW solar arrays with 4 MWh of accompanying battery energy storage systems (BESS).

How much solar energy does Indonesia have?

The initiative is still under development, with Indonesia's Ministry of Energy and Mineral Resources, Coordinating Ministry of Economic Affairs and Coordinating Ministry of Food responsible for its preparation. IESR has estimated Indonesia has a potential solar energy capacity ranging from 3,300 GW to 20,000 GW.

Does Indonesia have solar PV?

Solar PV has not scaled as fast in Indonesia as in some of its regional peers. In 2022, the country had 0.3 GW of installed capacity—low compared to the 3.1 GW and 18.5 GW of Thailand and Vietnam, respectively (Exhibit 2).

Is solar energy a key resource for Indonesia?

In 2021, Indonesia has identified solar energy as a key resource for the nation,

with the Ministry of Energy and Mineral Resources (MEMR) estimating a vast potential of 3,294 GW. Other data from the Institute of Essential Services Reform (IESR) suggests an even larger potential, totaling 7,715 GW.

How much solar power will Indonesia have by 2025?

To maximize this potential, Indonesia has set ambitious targets, as outlined in Presidential Regulation No.22/2017 on the General Plan for National Energy (RUEN). By 2025, the country aims to achieve a solar power installed capacity of 6.5 GW, to be further escalated to 17.6 GW by 2035.

Indonesia Solar Power System



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

5 days ago · Indonesia takes a significant step in its energy transition with the launch of its first solar power plant integrated with an energy storage system. Located in Nusantara, the project ...

Pathway towards 100% renewable energy in Indonesia power system by 2050

Oct 1, 2021 · Solar PV utility-scale and nuclear are installed at 211 GW and 121 GW in 2050. Total emission is reduced to 251 million tonnes CO2-eq or 82% from BAU in 2050. Electricity ...



Contact Us

For catalog requests, pricing, or partnerships, please visit:
<https://institut3i.fr>