

# **Mobile solar station project ROI in Indonesia**





## Overview

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Where is the best place to get solar energy in Indonesia?

On average Indonesia receives between 1500 kWh and 2200 kWh per m<sup>2</sup> of annual solar energy on a horizontal surface (Global Horizontal Irradiance, GHI). Java, Sulawesi, Bali, and East and West Nusa Tenggara are the best locations for solar PV, while Kalimantan, Sumatra and Papua are less good.

Could solar and wind be the backbone of Indonesia's energy transition?

However, advancements in energy storage technology, such as battery energy storage systems and grid-forming inverters, could enable solar and wind, together boasting a technical potential of 3.4 TW, to serve as the backbone of Indonesia's energy transition.

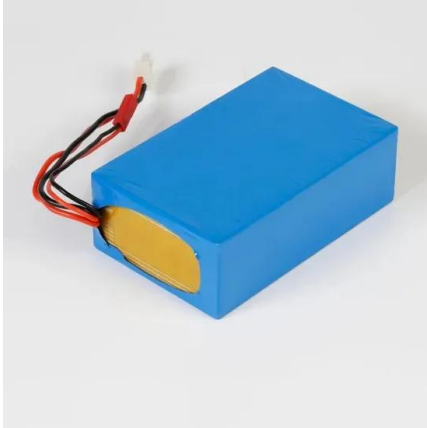
What are the LCR requirements for solar power in Indonesia?

solar power (40%), bioenergy (40%), and geothermal (35%).<sup>44</sup> Even though the LCRs target for solar projects is 40% in 2024, there is a requirement of 41% for centralized on-grid solar and 44% for centralized off-grid solar (Figure 16) © IRENA. Renewable Energy Prospects: Indonesia. March 2017. <sup>41</sup> IRENA.



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### ACWA Power signs PPA for floating solar PV project in Indonesia

Jakarta, Indonesia; 14 August 2024: Saudi-listed ACWA Power, the world's largest private water desalination company, leader in energy transition and first mover into green hydrogen, has ...

### [How to power Indonesia's solar PV growth opportunities](#)

Up to now, solar PV growth in Indonesia has been slow compared to various other countries in the region and, to overcome this, Indonesia's government has set targets to increase solar PV substantially by 2030. 4 The ...



### [Renewable Energy in Indonesia: Current ...](#)

Conclusion Indonesia's renewable energy sector is undergoing a period of transformation as the country seeks to diversify its energy mix and reduce its reliance on fossil fuels. Solar, wind, geothermal, bioenergy, and ...

### Pertamina and Hyundai Agree to Develop Hydrogen Ecosystem in Indonesia

On the downstream side, Pertamina is also building a pilot project for a hydrogen refueling station (SPBH) on Jl. Daan Mogot, West Jakarta, which will be the first integrated ...



### [Cirata Floating Solar PV Plant Ready to Operate:](#)

...

This lengthy process reduces the attractiveness of floating solar power plant investment in Indonesia. The development of supply chains for solar PV and floating PV components in Indonesia is also wide open, including for ...

### [Solar PV still has significant potential in Indonesia](#)

As outlined in the RUEN, by 2050, rooftop solar PV is expected to cover at least 30% of government buildings and 25% of upscale residential complexes and apartments, further contributing to renewable energy ...



### [Indonesia's solar outlook for 2025 shows promising...](#)

The Indonesia Institute for Essential Services Reform (IESR) recently released its "2025 Indonesia Solar Outlook" report, revealing that as of August, the country's installed photovoltaic capacity reached 717.71 MW.



### [Solar Power Plants in Indonesia: Locations, Impacts, ...](#)

The Cirata Floating Solar Power Plant, located in West Java, is one of the largest solar projects in Indonesia and Southeast Asia. With an installed capacity of 145 MW, it began operations in 2021 (Jakarta Post, 2023).



### **Study identifies 333GW of financially viable renewable ...**

Mendrofa explained that these regions have renewable energy project sites with high equity internal rate of return (EIRR) levels, making them financially viable. Approximately 61% of the 333GW of potential renewable ...

### [Photovoltaic \(PV\) solar power plants in Indonesia](#)

The Indonesian government has introduced several policies to pander to solar energy development, such as the feed-in tariff system and investment tax allowances. These policies aim to make solar energy projects ...



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