

## Average hybrid solar storage price per 250kW in Indonesia

Could hybrid solar power plants become a prime mover in Indonesia?

In his response to this issue, Fabby Tumiwa, director of the Institute for Essential Services Reform, said that hybrid solar power plants could become the prime mover in the shift towards renewable energy in Indonesia.

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.

How much does a solar system cost in Indonesia?

The average pricing of a solar system in Indonesia is IDR 15 - 21 million per kW installed and even less if for larger installations. For the batteries, you can expect to pay an additional IDR 10 - 12 million per kWh for LifePO<sub>4</sub> lithium batteries, which give you the biggest bang for your buck.

Are solar gensets affecting economic growth in Indonesia?

In addition, the available gensets were run only 4 hours in the evening daily with frequent breakdowns, thus hindering economic productivity and growth. In 2016, Millennium Challenge Account Indonesia (MCAI) and Akuo Energy jointly selected three villages in East Kalimantan to install hybrid minigrids that are powered by solar energy.

Does Indonesia need legal protection for hybrid solar power plants?

Indonesia needs to establish strong legal protection through specific regulations that involve all stakeholders as the basis for power purchase agreements for hybrid solar power plants. This was the broad conclusion of the online focus group discussion on this issue held on 18 June 2021 and organised by the MENTARI programme.

How much energy does a solar panel produce in Bali?

Remember, solar panels need direct sunlight to produce energy! In Bali, Lombok, and many parts of Indonesia, this translates to an average of 4.2 kWh (kilowatt-hour) per kW of solar installed. When there is cloud cover or rain, your power output will drop. At night, it won't produce any energy at all.



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