

Containerized solar generator off-grid project cost in Indonesia

12.8V 100Ah





Overview

The average pricing of a solar system in Indonesia is IDR 15 - 21 million per kWp 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 LifePO4 lithium batteries, which give you the biggest bang for your buck. What is Indonesia's first & largest containerized battery energy storage system?

Indonesia's First & Largest Containerized Battery Energy Storage System. Off-grid solar energy system at PT Cipta Kridatama equipped with CBESS. The CBESS solar energy system at PT Cipta Kridatama Jambi operates off-grid, making it a reliable, self-sustaining energy source without dependence on the national electricity grid.

How much electricity does an off-grid Solar System use?

For an off-grid solar system, the capacity of your solar array must be able to offset your electricity consumption during the day and charge your batteries simultaneously. As previously mentioned, in Indonesia you get an average of 4.2 kWh per kW of solar installed.

Is solar-plus-Bess cheaper than diesel power plants in Indonesia?

Fabby Tumiwa, Chief Executive Officer of the Jakarta-based Institute for Essential Services Reform (IESR), told pv magazine that solar-plus-BESS generates cheaper electricity than the diesel power plants that power villages and remote islands in Indonesia.

How much does it cost to electrify rural areas in Indonesia?

To electrify all rural areas in Indonesia by the combination of the proposed hybrid PV micro-grids and stand-alone PV systems, the total cost over 25 years is estimated to be roughly 13 billion USD. On average the LCOE for hybrid PV is 0.38 USD/kWh, for the stand-alone PV system this is 0.76 USD/kWh.

Are off-grid PV systems more expensive?



Compared with the estimated LCOE of grid-connected PV for rural areas ranging from 0.17 to 0.24 USD/kWh , off-grid PV systems are significant more expensive. The hybrid PV system shows the lowest LCOE with the smallest range, but requires a certain population density in order to be feasible.

What happens if a solar system is off-the-grid?

With that being said, when you are off-the-grid, you no longer have the grid as a backup for your power needs when the solar panels do not produce energy. This is why backup energy storage, i.e. solar batteries, are essential in an off-grid solar system.



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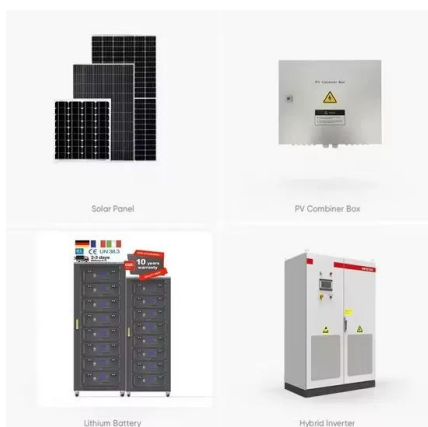
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