

Global PV Storage Insights

Successful bid price of PV energy storage project in Indonesia 2025



Overview

How much does solar PV cost in Indonesia?

The tool calculates an IRR of 16.44%, and a pay-back period of 6 years. IEA estimated that in 2019, Solar PV installations in Indonesia had an LCOE of 80 US\$/MWh. This compares with an IRENA estimate of the worldwide average of 60 US\$/MWh in 2019, falling to 48 US\$/MWh in 2021.

How much solar energy investment in Indonesia has doubled in 2021?

Alvin Putra Sidwinugraha, Lead Author of ISEO 2025 and IESR's Electricity and Renewable Energy Analyst, revealed that solar energy investment in Indonesia has doubled, from USD 68 million in 2021 to USD 134 million in 2023.

How much does a PV-plus-energy storage system cost in Indonesia?

BNEF estimates the current LCOE of a PV-plus-energy storage (PVS) system in Indonesia is \$113-251/MWh (real 2020) and already cost-competitive against diesel, which can be as pricey as \$200/MWh in remote areas due to high fuel costs. PVS systems are likely to become cost-competitive against new coal and gas plant within the decade.

How many MW will solar PV produce in 2025?

This implies an overall capacity of 5,544 MW, of which Solar PV is expected to contribute 1,631 MW (29.4%) by 2025. In the RUPTL 2021–2030, planned solar PV capacity addition is increased to 4,680 MWp by 2030 (compared to 0.9 GWp in RUPTL 2019–2028 and the latest published capacity of only 139 MW in 2021).

How much water can be used for floating PV projects in Indonesia?

Regulation 6/2020 issued by the Ministry of Public Works and Public Housing stipulates that 5% of the water surface at dams can be used for floating PV projects. PJB Investasi estimates that this translates to 4.3GWp of floating PV

potential in Indonesia.

Does Indonesia have a clear PV procurement process?

Enhancing transparency through a clear PV procurement program: Indonesia currently carries out tenders to procure power capacity, primarily through state-owned utility, Perusahaan Listrik Negara (PLN). The current power procurement process is opaque, limiting competition and price discovery.

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Indonesia announces bold 320 GWh distributed battery storage plan

The new initiative features plans for 1 MW solar minigrids tied with 4 MWh of accompanying battery energy storage, to be deployed across 80,000 villages, alongside 20 ...

Electrifying the Last Mile: Community-based ...

Our assessment of four case studies of renewable energy projects in Eastern Indonesia suggests that successful implementations, even in the absence of private sector involvement, have one common denominator -- ...



[Solartech Indonesia 2025](#)

Overview interest facts - Solartech Indonesia 2025 Solartech Indonesia is ASEAN's Largest & Most Influential Trade Show for Solar Power & PV Technology now. This ...

Indonesia announces 100 GW solar, storage minigrid plan

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80,000 villages, alongside 20 ...



Sembcorp launches Indonesia solar-plus-BESS ...

PT Sembcorp Renewables Indonesia, part of Sembcorp, and PT PLN Nusantara Renewables have launched a solar-plus-storage project in Indonesia.



Indonesia's solar outlook for 2025 shows promising ...

IESR Executive Director Fabby Tumiwa emphasized that following a downturn in the solar industry over the past two years, Indonesia needs to "catch up" with global solar trends. He further stated that this trend is ...



Key Facts about Indonesia's Energy Storage System

The Potential of The Energy System Storage 2021 was an important year for Indonesia as the government has issued necessary regulations to facilitate renewable energy growth and reach the ambitious goal of 2025. ...

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 ...



Indonesia sending mixed messages about renewables

Indonesia has the resources to quickly increase the share of renewables in its power mix, including abundant solar, geothermal and pumped storage potential to help stabilize the grid. The government has introduced ...

Indonesia Has 333 GW of Financially Viable Renewable Energy Projects

Indonesia's vast technical renewable energy potential, exceeding 3,686 GW, is a crucial asset for increasing the country's renewable energy mix beyond 23 percent, ...



- LIQUID/AIR COOLING
- ON GRID/HYBRID
- PROTECTION IP54/IP55
- BATTERY /6000 CYCLES

Photovoltaic (PV) solar power plants in Indonesia

Technological Innovation Technological advancements in solar energy are also propelling the growth of solar power plants in Indonesia. The introduction of advanced photovoltaic (PV) technologies, energy storage ...

Indonesia Solar Energy Outlook 2025

Indonesia Solar Energy Outlook 2025 highlights the crucial role of solar power in improving Indonesia's energy security. The report analyzes how solar PV can help reduce dependence on fossil energy, improve the reliability of electricity ...



TotalEnergies and RGE Ink Co-Investment Agreement to ...

TotalEnergies and RGE, through their equally-owned joint venture Singa Renewables (Singa), have entered into a Co-Investment Agreement to develop, build and ...

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10 projects to watch: renewable energy projects ...

2025 is a pivotal year for the renewable energy sector, with a range of high-impact projects nearing final investment decision (FID). These ventures, spanning offshore wind, solar and onshore wind, are set to unlock ...

Opportunities for Increased Adoption of Solar Energy and Energy ...

Institute for Essential Services Reform (IESR), a leading energy and environment think tank, has released two new studies on solar energy development and an ...



Indonesia Has 333 GW of Financially Viable ...

A recent study by the Institute for Essential Services Reform (IESR) identifies financially viable renewable energy project locations across Indonesia's islands, considering recent technological advancements and ...

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

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



SOLARTECH INDONESIA 2025 (Sub event with : ...

The 10th edition of Solartech Indonesia, which will be held in conjunction with Battery & Energy Storage Indonesia 2025, INALIGHT 2025, Smart Energy Indonesia 2025 and Smart Home + City Indonesia 2025, will be ...

Opportunities in Indonesia's Renewable Energy Sector

Advancements in energy storage, smart grids, and hybrid renewable systems are shaping the future of Indonesia's energy landscape. For example, integrating battery storage with solar and wind projects is expected ...



[Major Solar Projects List - SEIA](#)

There are over 1,200 major energy storage projects currently in the database, representing more than 92,500 MWh of capacity. The list shows that there are more than 176 ...

[Welcome To Solartech Indonesia](#)

Based on the success of Solartech Indonesia 2025, which drew more than 780 exhibitors and 18,000 visitors from over 40 countries, the event has cemented its place as ASEAN's largest ...



MENA Solar and Renewable Energy Report

Introduction Renewable energy usage has been growing significantly over the past 12 months. This trend will continue to increase as solar power prices reach grid parity. In 2019, the global ...

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TotalEnergies And RGE Team Up To Build Solar And Battery

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TotalEnergies and RGE, through their equally-owned joint venture Singa Renewables (Singa), have entered into a Co-Investment Agreement to jointly develop, ...

Indonesia ratifies plans for 42.6GW of renewable ...

The Indonesian government has ratified the PLN Electricity Supply Business Plan (RUPTL) 2025-2034, targeting 42.6GW of new renewable energy generation capacity and 10.3GW of energy storage.



Solar energy to drive Indonesia's transition away from coal, biofuels

The role of solar PV in Indonesia will extend beyond replacing coal-based electricity generation; it will also include the production of e-fuels for hard-to-abate segments, ...

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.



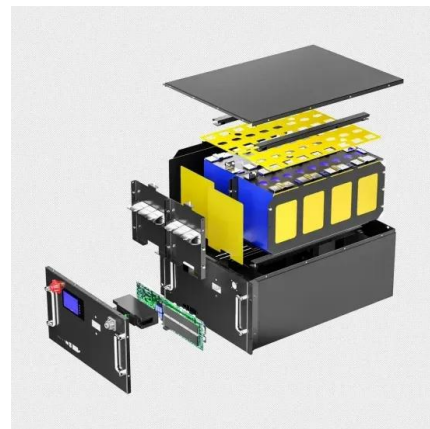
- LIQUID/AIR COOLING
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Indonesia significantly reduces localization requirements for PV projects

In addition to this, Indonesia has eased restrictions on the import of solar modules, with a new policy allowing solar power projects to import equipment until June 2025, ...

Indonesia's New Regulation on Renewable PPAs

In light of the increasing number of co-located intermittent renewable and energy storage projects in Indonesia, MEMR 5/2025 includes specific provisions setting out the ...



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