

# **Photovoltaic ESS project financing options in Indonesia 2025**





## Overview

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Which international development finance institutions have backed solar and wind projects?

International development finance institutions have backed most large-scale solar and wind power projects developed to date. In 2018, the Asian Development Bank signed a \$161 million loan package with Vena Energy to finance Vena Energy's solar and wind project portfolio in Indonesia.

How much money does a PV project cost in Indonesia?

The "pipeline" of PV projects in Indonesia under development today currently totals 2.7GWac. This translates to an estimated \$3 billion investment if all projects are developed. Access to capital is not the primary challenge.

How can IESR accelerate the growth of Indonesia's electricity system?

IESR emphasized that a solid understanding and strong commitment from policymakers and energy planners regarding the potential and benefits of solar energy and ESS are essential prerequisites for accelerating their growth in Indonesia's electricity system.

What is EVE Energy's Solartech Indonesia showcase?

EVE Energy's Solartech Indonesia showcase underscores its commitment to advancing renewable energy accessibility. By addressing grid challenges and decentralizing power generation, the company is poised to accelerate Indonesia's shift toward a sustainable, resilient energy ecosystem.

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.



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.



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### Floating Solar Indonesia: 5 Amazing Projects Transforming Energy in 2025

Floating Solar Indonesia: 5 Amazing Projects Transforming Energy in 2025 Indonesia Solar News Floating Solar Indonesia: Pioneering Renewable Energy in the ...

### Future-Proofing Indonesia's Grids: Policies and Financing ...

In addition to the business-as-usual financing scheme, an evaluation is currently underway to explore alternative financing options to meet transmission and substation funding needs, while ...



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

The Indonesia Solar Energy Outlook (ISEO) 2025 report highlights that solar energy growth in Indonesia has been slow compared to the targets outlined in PLN's National ...

### Sembcorp and PLN Nusantara Power Launches First Utility-Scale

The NSSE Power Plant, built on approximately 87 hectares of land, is the first utility-scale integrated solar and energy storage project in Nusantara, Indonesia. Comprising a ...



### Solar PV still has significant potential in 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 ...

### Renewable Energy in Indonesia: Current ...

While there has been notable progress in the development of some renewable energy sources, particularly geothermal and solar energy, other sectors, such as wind and marine energy, are still in the early stages of ...



### Real options analysis for regional investment decisions of household PV

This paper takes 30 provinces in China as the research subjects and constructs a real options model to explore the impact of carbon emissions trading market, energy storage ...





## Indonesia's Energy Transition: Key steps in accelerating the

Indonesia has enormous solar energy potential. According to an IESR report, the total solar PV development planned by the government and PLN reaches 17 GW, ...



## Mapping Growth Opportunities for Solar Energy and ...

Solar energy can be a strategy to meet this target," said Deon Arinaldo, Program Manager of Energy System Transformation, at the launch of the Indonesia Solar Energy Outlook 2025 study report - Breaking the Walls: ...

## Indonesia announces bold 320 GWh distributed battery storage plan

These solar-plus-storage mini grids are set to be installed in 80,000 villages across Indonesia and will be managed and operated by village cooperative Merah Putih. A ...



## Key Facts about Indonesia's Energy Storage System

Indonesia has recently launched a 5 megawatt Battery Energy Storage System (BESS). The new energy storage system is a device that enables energy from renewables to ...



### 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 ...



### Launching-Presentation-ESS-2025 An Assessment of Energy ...

ESS projects totaling approximately 88 GW are reported to be under construction, with an additional 64 GW announced across five continents Current and future technology options ...

### Battery Energy Storage System (BESS) market di Indonesia

The first utility-scale solar + storage to replace peaker generation is in the pipeline Power sector: Solar PV + storage project Indonesia Power's Hijaunesia "equity partner" auction:



### Indonesia's C& I key to rooftop solar PV development

In June 2024, Indonesia issued rooftop solar PV system development quotas for state electricity company PLN between 2024 and 2028, aiming to add 5.75GW of capacity in the country.



### Future-Proofing Indonesia's Grids: Policies and Financing ...

Total Investment 188 In addition to the business-as-usual financing scheme, an evaluation is currently underway to explore alternative financing options to meet transmission and substation ...

18650<sup>3.7V</sup>  
RECHARGEABLE BATTERY Li-ion  
2000mAh



### The rise of bankable BESS projects in Europe

As the renewable energy sector rapidly evolves, battery energy storage systems (BESS) are emerging as a critical pillar for decarbonization. However, with capital constraints and rising market

### Key Facts about Indonesia's Energy Storage System

Indonesia has recently launched a 5 megawatt Battery Energy Storage System (BESS). The new energy storage system is a device that enables energy from renewables to be stored and then released based on the needs of ...



### Indonesia's solar outlook for 2025 shows promising growth

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 ...



### Scaling Up Solar in Indonesia

A moratorium on new coal power plants bodes well for growth of solar power in Indonesia. Yet harnessing solar power requires government action such as improving transparency around ...



### Unlocking Indonesia's Renewables Future

Therefore, this study uses the project financing structure to indicate the economic viability of RE projects that will support developers in preparing bankable research during the preparation ...



### Role of ESS Bintang 230627.pptx

The estimated total power capacity of the global ESS is more than 160 GW by the end of 2021 and is expected to continue to grow along with the increasing commitment of several countries ...



### **Indonesia Launches Its First Utility-Scale Solar and ESS Project**

The Nusantara Sembcorp Solar Energi Power Plant, Indonesia's first large-scale solar and energy storage project, has been launched by PT Sembcorp Renewables Indonesia ...



## Indonesia's installed solar capacity surpasses 700 MW

The Institute for Essential Services Reform says Indonesia's solar industry has faced a downturn over the past two years, but policy reforms should accelerate solar deployment in the coming



## PLN, Sembcorp to develop Solar-BESS for Indonesia's Future ...

It will feature 114,420 bifacial solar PV modules (625MWp), 126 lithium iron phosphate battery packs, and smart transformer stations. PLN, through its subsidiary PLN Nusantara Power, is ...



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