

Expected ROI of business energy storage project in Indonesia 2026





Overview

Is energy storage developing in Indonesia?

IESR has issued a report for the first time assessing the development of energy storage in Indonesia in *Powering the Future: An Assessment of Energy Storage Solutions and The Applications for Indonesia*.

Are renewables the future of Indonesia's energy mix?

As of 2023, renewables account for only around 13% of the energy mix, indicating a need for rapid acceleration. Advancements in energy storage, smart grids, and hybrid renewable systems are shaping the future of Indonesia's energy landscape.

Why is battery energy storage system important in Indonesia?

However, given the challenge of Indonesia's geological landscape, with many off-grid and remote areas, there is growing intermittency issue that hamper the development of solar and wind generation. Hence, the battery energy storage system (BESS) technologies have a critical role in the development of Indonesia's renewable energy.

How Indonesia's regulatory environment is undergoing reforms to attract foreign investment?

Indonesia's regulatory environment is undergoing reforms to attract foreign investment in renewable energy. The 2023 Presidential Regulation on Renewable Energy provides a clearer roadmap for project approvals and incentives.

When will a battery storage facility be built in Indonesia?

In the BAU scenario, the construction of battery storage facilities commences in 2030 for 2-hour (2H) duration batteries in provinces such as East Java, Jakarta, Lampung, and Riau, followed by other provinces except Aceh, North Sumatra and West Java starting in 2035.



Why is accelerating the energy transition important in Indonesia?

Accelerating the energy transition is important to bring Indonesia into this circle. Zainal Arifin, EVP of Renewable Energy, PT PLN, said that the combination of VREs and energy storage systems such as batteries will be a game changer for overall energy supply.



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Our Lifepo4 batteries can be connected in parallel and in series for larger capacity and voltage.



Smart energy Indonesia - Indonesia International Smart Energy ...

Returning in its 4th edition, Smart Energy Indonesia 2026, together with Solartech Indonesia 2026, Smart Home+City Indonesia 2026, Battery & Energy Storage Indonesia 2026, and ...

PT Pertamina Energy Terminal advances phase two of Tuban ...

Bayu emphasized that this project is a tangible demonstration of Pertamina's commitment to maintaining national energy security while ensuring operational efficiency and ...



Mapping Growth Opportunities for Solar Energy and ...

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Market Information

Solartech Indonesia 2026 together with Battery & Energy Storage Indonesia 2026, INALIGHT 2026, Smart Energy Indonesia 2026, and Smart Home+City Indonesia 2026 will be taking place from 22 - 24 April 2026 at JIExpo ...



India's Energy Storage to Grow 5X by 2032, Driven by INR4.79 ...

The India Energy Storage Alliance (IESA) projects a fivefold growth in the sector between 2026 and 2032, with investments expected to reach INR4.79 lakh crore by 2032.



European Market Outlook for Battery Storage 2025-2029

The European Market Outlook for Battery Storage 2025-2029 analyses the state of battery energy storage systems (BESS) across Europe, based on data up to 2024 and ...



[Energy Storage Systems \(ESS\) Overview](#)

3 ???· The challenge with Renewable Energy sources arises due to their varying nature with time, climate, season or geographic location. Energy Storage Systems (ESS) can be used for ...





Indonesia issues new quota for rooftop solar system development

According to Mada Ayu Habsari, general chairman of the Indonesian Solar Energy Association (ISEA), the size of the rooftop PV quota provides a "positive signal" for the ...



Optimal energy storage configuration to support 100 % renewable ...

Scenario analysis within the study offers significant insights into the tactical deployment of energy storage systems essential for grid support as Indonesia progresses ...

Green Hydrogen Innovation Centre , International ...

HDF Energy is developing a green hydrogen project for power storage in Sumba. It combines the use of solar PV for power generation, batteries for short-term storage, and hydrogen system (electrolysis and fuel-cell) for overnight storage.



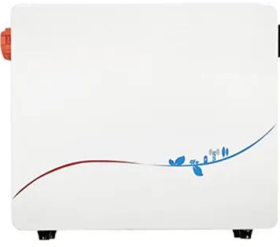
Battery Energy Storage System (BESS) market di Indonesia

The need for storage increases from 2030 onwards with capex of electricity storage grows to around USD 82 billion in 2035 and further declines to USD 42 billion in 2050.



Redelfi presents the 2022-2026 business plan. Significant expected

Read the press release in PDF format here (in Italian) REDELFI UNVEILS BUSINESS PLAN 2022-2026. SIGNIFICANT GROWTH EXPECTED FROM BU "GREEN" ...



Indonesia's green powerhouse promise: Ten bold moves

By identifying and acting on the opportunities on the road to net zero, Indonesia could--with ten strategic initiatives--help ensure a secure, green, and sustainable future for itself and the world.

Indonesia Begins Construction on Its First Carbon ...

First injection of carbon in the CCUS project is expected in 2026, and BP is estimated to have invested \$2.6 billion in the facility, according to an Indonesia official from the energy



Indonesia's Mining Industry Transformation: Opportunities, ...

Executive Summary Indonesia's mining industry is undergoing a major transformation with the government's downstream policy, which aims to increase the added ...



Indonesia launches first carbon storage project in ...

In September, an energy ministry official said BP will invest US\$2.6 billion in the project, with the first carbon injection expected in 2026. BP did not give an investment figure.



Indonesia Energy Storage Systems Market (2025-2031) , Trends, ...

The pandemic led to uncertainties in energy demand and investment priorities, affecting the pace of adoption of energy storage solutions. However, the increasing focus on renewable energy ...

Indonesia launches first carbon storage project in ...

In September, an energy ministry official said BP will invest \$2.6 billion in the project, with the first carbon injection expected in 2026. BP did not give an investment figure. The new project follows the completion of BP's ...



FLEXIBLE SETTING OF MULTIPLE WORKING MODES



Electrovaya Launches 2MWh Energy Storage System with Infinity ...

2 ???· Battery maker Electrovaya launches advanced energy storage systems manufactured in Jamestown, NY. Features proprietary Infinity Technology, 2MWh capacity, eligible for 30 ...



Australia: The 2025 NEM Battery Energy Storage Pipeline Report

Australia has a massive pipeline of grid-scale battery energy storage projects. 16.5 GW of new battery projects could arrive in the NEM in the next 3 years.



World Bank Projects Steady Growth for Indonesian

Indonesia's economy is expected to grow steadily over the next few years, supported by robust domestic consumption and investment, according to a World Bank report ...

Bappenas Sets 2026 Economic Growth Target at 6.3 ...

The Ministry of National Development Planning (Bappenas) will seek to achieve economic growth of 6.3 percent under the 2026 Government Work Plan. "The development target in the work plan is focused on high ...



Vena launches plan to support solar, storage ...

Singapore-based developer Vena Energy says it will investigate opportunities to make solar panel components and battery energy storage systems in Indonesia, in order to support a hybrid



The Next Indonesia Infrastructure Investment ...

These developments make Indonesia an attractive destination for investors in technology and energy sectors. The Road Ahead for Indonesia Infrastructure Investment Opportunities While Indonesia presents exciting ...



Energy Storage Systems (ESS) Overview

3 ???· The challenge with Renewable Energy sources arises due to their varying nature with time, climate, season or geographic location. Energy Storage Systems (ESS) can be used for storing available energy from Renewable ...

Understanding the Return of Investment (ROI) of Energy Storage ...

Several key factors influence the ROI of a BESS. In order to assess the ROI of a battery energy storage system, we need to understand that there are two types of factors to keep in mind: ...



- ✓ ALL IN ONE
- ✓ 100Kw/174Kwh High Capacity
- ✓ Intelligent Integration

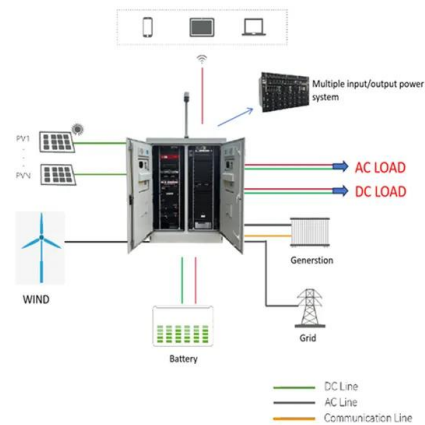
Southeast Asia's renewable investment to top \$76 billion

Pertamina Geothermal Energy (PGE), a subsidiary of the Indonesian NOC, takes the lead among competitors in low-carbon expenditure. PGE's dedication to expanding ...



Indonesia's Mining Industry Transformation: ...

Executive Summary Indonesia's mining industry is undergoing a major transformation with the government's downstream policy, which aims to increase the added value of mineral resources within the country. The ...



[Indonesia is walking the carbon capture talk](#)

Ongoing CCS/CCUS project in Indonesia At the forefront of Indonesia's efforts to become a global leader in carbon storage is the Tangguh CCUS project, spearheaded by ...

Indonesia Begins Construction on Its First Carbon ...

First injection of carbon in the CCUS project is expected in 2026, and BP is estimated to have invested \$2.6 billion in the facility, according to an Indonesia official from the energy ministry



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