

# Expected ROI of residential ESS project in Indonesia 2030





## Overview

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Will Indonesia attract more energy investment in 2023?

Attract more investment to increase renewable energy capacity. Indonesia's renewable energy investment has stagnated over the past seven years. The latest data shows that Indonesia could only attract around US\$1.5 billion (bn) in 2023, translating into a mere 574 megawatts (MW) of additional renewable energy capacity; 145MW of w.

Will Indonesia increase the share of renewables in its energy mix?

By 2030, Indonesia plans to increase the share of renewables in its energy mix from 12% to 40%, necessitating substantial investments in construction related to renewable energy projects. This market intelligence report offers a comprehensive view of market opportunities in the building and infrastructure construction industry at the country level.

How can Indonesia accelerate ESS development?

IESR recommends several important steps for the government to accelerate ESS development in Indonesia. First, the government must improve the regulatory framework and provide legal certainty to reduce risks for ESS developers.

Why did IESR launch a campaign on energy transition in Indonesia?

In 2017, IESR launched a campaign on energy transition in Indonesia in the wake of President Joko Widodo's 35 GW acceleration power supply program. Through the publication of the Indonesia Clean Energy Outlook (ICEO), we have tracked the progress of clean energy deployment in Indonesia since 2017.

What is Indonesia's energy landscape like in 2023?

Fossil fuel will continue to play a central role in Indonesia's energy landscape. The MEMR noted that the primary energy mix from coal and petroleum in



2023 is reaching 74%, compared to new and renewable energy (NRE) that is still around 12.3%<sup>11</sup>. Furthermore, fossil fuel is also Indonesia's main energy source.

How do countries support Indonesia's energy transition?

At least ten countries have committed to support Indonesia's energy transition through financial and technical assistance, grants or collaborative projects, through bilateral pledges and investment plans.



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### UAE Energy Storage System Market Size and Forecasts 2030

Battery Energy Storage Systems (BESS): Expected to dominate the market due to widespread adoption in residential, commercial, and utility applications in UAE. Pumped ...

### [Global BESS deployments to exceed 400GWh ...](#)

Image: Rystad Energy. Annual battery energy storage system (BESS) installations will grow by 10x between 2022 and 2030, according to research firm Rystad Energy. Rystad expects annual BESS deployments to ...



### Australia Energy Storage Systems (ESS) Market Size, Share & Growth 2030

Ans: The residential segment is expected to grow at the highest CAGR in the Australia Energy Storage Systems (ESS) Market during the forecast period between 2024 and 2030.

### The entire world is starting to take notice of ESS.

Why should we care about ESS? According to a report released in March 2022 by energy research firm Bloomberg NEF, the global cumulative installed capacity was 56 GWh in 2021, with the global ESS market predicted ...



### Indonesia Construction Market (2024-2030) Size & Demand ...

Report Overview An increasing number of infrastructure development, housing, and commercial building projects; rapid migration of people from rural to urban areas; and the government's ...



### Grids in Indonesia: Developing a revenue model aligned with ...

However, the Announced Pledges Scenario (APS) is more challenging and would require Indonesia to maintain an average yearly growth of 8% to reach the grid spending requirements ...



### Enabling renewable energy with battery energy ...

What about the BESS residential consumer play? Residential installations--headed for about 20 GWh in 2030--represent the smallest BESS segment. But residential is an attractive segment given the opportunity for ...



### Energy Storage Systems Market , Size, Share, Growth , 2024

Energy Storage Systems Market Size (2024-2030) The Global Energy Storage Systems Market was valued at USD 45.3 billion in 2023 and is projected to grow at a CAGR of 10.3% from 2024 ...



### 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 ...

### Unlocking Indonesia's Renewable Energy Investment Potenti ...

Indonesia needs to attract US\$146 billion in near-term renewable energy investment to meet the country's 2030 climate target. Current policies and onerous contractual requirements towards ...



### [Japan poised for a battery boom](#)

The government's introduction, this year, of a solar panel mandate for new homes is helping fire battery demand, with the \$279 million worth of residential lithium-ion systems recorded by InfoLink in Japan in 2023 ...





### Market attractiveness analysis of battery energy storage systems ...

The BESS market of Southeast Asia is nascent but growing quickly in that the cumulative installed BESS capacity in Southeast Asia will reach about 6GW/14 GWh by 2030 ...



### Forecasting Indonesia's electricity load through 2030 and peak ...

A few residential end uses--led by air conditioners, lighting, refrigerators, and televisions--account for over half of national peak demand in 2030, with the remaining demand ...

### Indonesia Construction Industry Databook 2024-2028: Growth

By 2030, Indonesia plans to increase the share of renewables in its energy mix from 12% to 40%, necessitating substantial investments in construction related to renewable ...



### New battery storage capacity to surpass 400 GWh per ...

The era of battery energy storage applications may just be beginning, but annual capacity additions will snowball in the coming years as storage becomes crucial to the world's energy landscape. Rystad Energy ...



### Indonesia Construction Industry Report 2024: Output to Expand ...

The Indonesia Construction Industry Report 2024: Output to Expand by 7%, Supported by Government Focus on Infrastructure and Energy Development, Coupled with ...



### European residential BESS industry , McKinsey

Manufacturers of residential battery energy storage systems in Europe face competitive pressure from players in Asia--and they need to adjust their strategies to stay ahead.

### ASIAPACIFIC REGIONS: REPORT ON

Executive Summary The Asia Pacific region is expected to become the largest flow battery market within the next few years. A large part of this development is to be credited to rising ...



### [Indonesia Real Estate Market \(2025-2031\)](#)

Indonesia Real Estate Market Synopsis The real estate market in Indonesia has been witnessing strong growth over the past few years due to rapid urbanization, rising disposable incomes, ...



## Residential Energy Storage Systems (ESS) Market Growth ...

Residential Energy Storage Systems (ESS) Market Country Level Analysis The Global Residential Energy Storage Systems (ESS) Industry Analysis Research Report ...



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

IESR recommends several important steps for the government to accelerate ESS development in Indonesia. First, the government must improve the regulatory framework ...

## [Europe's energy storage fleet reaches 89 GW](#)

The fleet of energy storage projects in Europe, including both pumped hydro and battery energy storage systems of all sizes, is expanding rapidly. This growth is set to continue ...



## [Indonesia Energy Transition](#)

Investment is essential to reach energy transition goal. However, mobilizing investment is a challenge that Indonesia faces. Since 2017, investment in renewable energy generation has ...



## INDONESIA RENEWABLE ENERGY INVESTMENT ...

12 solar PV (floating and land-based) and 1 wind located in Java-Bali and Aceh. PLN IP is seeking potential investment partners for the development of the projects and plans to acquire a ...



### **ESS Technologies: Recent advances and policy ...**

The country aims to achieve 500 GW of non-fossil-fuel-based capacity by 2030, requiring extensive deployment of energy storage systems (ESS) - particularly pumped storage projects (PSPs), battery energy storage ...

### **Southeast Asia's Largest Energy Storage System Officially Opens**

2 Based on independent assurance provider DNV's global database of 4,210 ESS projects totalling 32GWh and publicly available information as of January 5, 2023 for 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 ...



### BESS in Germany 2025 and Beyond: Use Cases, ...

BESS Capacity across Germany and Projected Growth By mid-2024, Germany's total BESS capacity reached 16 GWh, which included: 13 GWh residential 1.1 GWh commercial 1.8 GWh large-scale systems Germany led ...



### 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 ...

### SMM: Global ESS market demand may reach around 470 Gwh by 2030...

The growth rate of the global ESS market from 2025 to 2030 is expected to be approximately 10%, and the global ESS market demand may reach around 477 Gwh by 2030.



**TAX FREE**

**Product Model**  
HJ-ESS-215A(100KW/215KWh)  
HJ-ESS-115A(50KW 115KWh)

**Dimensions**  
1600\*1280\*2200mm  
1600\*1200\*2000mm

**Rated Battery Capacity**  
215KWH/115KWH

**Battery Cooling Method**  
Air Cooled/Liquid Cooled

### SMM: Development Opportunities and Challenges in the Global ESS ...

By 2030, global ESS demand is expected to reach 480 GWh. From 2025 to 2030, the global ESS market will enter a stock phase, with most regions having a high ...



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