

# **Expected ROI of backup power battery project in Indonesia 2030**





## Overview

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What is the expected growth rate of Indonesia battery market?

A compound annual growth rate of 23.7% is expected of Indonesia battery market from 2024 to 2030. The Indonesia battery market generated a revenue of USD 980.4 million in 2023 and is expected to reach USD 4,349.0 million by 2030. The Indonesia market is expected to grow at a CAGR of 23.7% from 2024 to 2030.

Can Indonesia capitalize on growing demand for lithium-ion batteries and EVs?

Indonesia can capitalize on rapidly growing demand for lithium-ion batteries and EVs domestically and globally. 35 million battery electric two-wheelers and 1.5 million battery EV cars.

How does Indonesia invest in EV batteries?

Upstream the supply chain, Indonesia leverages its nickel reserves and applies restrictive measures to attract foreign investment in nickel processing. Midstream and downstream, Southeast Asia's largest car market offers incentives for EV battery (component) producers, EV manufacturers, and EV buyers.

How many EV batteries will be produced by 2030?

The government has the ambitious goal to produce EV batteries with a total capacity of 140 GWh per year by 2030—from zero EV battery production today. One-third of the future production is planned to be exported, while the remainder should be used for the domestic EV industry, which is just starting to be developed.

Will lithium-ion battery costs decrease further by 2030?

The growth of the battery industry, propelled by the rising demand for battery-powered electronics and electric vehicles, has witnessed a marked reduction in lithium-ion battery costs, expected to decrease further by 2030 (Goldie-



Scot, 2019; IRENA, 2017).

How much battery storage capacity will a re power plant have?

The projected total RE capacity would be 437-669 GW, accounting for 88-92 % of the overall capacity. With VRE expected to form an impressive 84-89 % of this total, the scenario calls for a significant boost in battery storage capacity to between 206 and 208GW, or 42 MW for every 100 MW of VRE.



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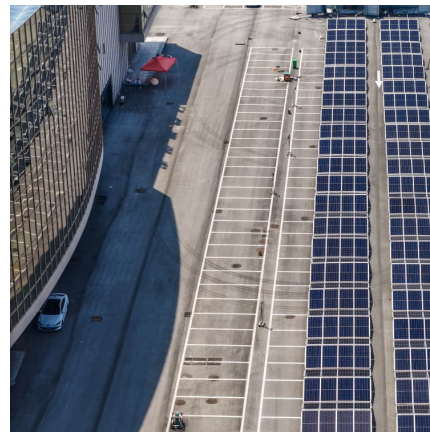


### Battery growth t 2030 capacity shortfall still looms, batteries, energy

An analysis of battery storage investments in Australia published by Wood Mackenzie late last year indicated a positive outlook for battery storage profitability, driven by ...

### [Indonesia to lead SEA battery manufacturing by 2030](#)

Indonesia is on track to become the largest lithium-ion battery and component manufacturing hub in Southeast Asia. This is thanks to its abundant raw material resources, including nickel and cobalt, and investments ...



### [Indonesia Has 333 GW of Financially Viable ...](#)

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, potentially reaching 50 percent by 2030.



### [Japan Incentivizes Battery Storage Projects Amid](#)

The ramp up of battery storage projects in Japan continues apace, aided by growing subsidy avenues and rising volumes on various electricity



markets, from spot to balancing to capacity.

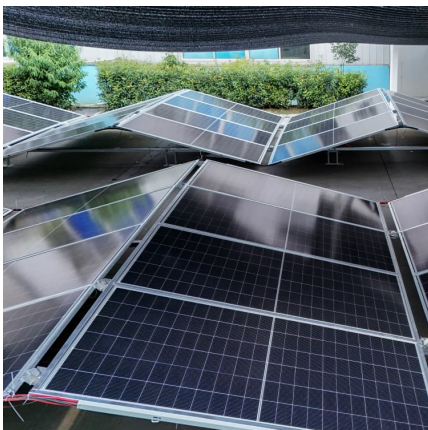


### Indonesia Stationary Battery Storage Market Size and ...

The Indonesia stationary battery storage market is growing due to increasing adoption of renewable energy, advancements in battery technologies, and rising demand for grid stabilization and backup power ...

### [U.S. battery storage capacity expected to nearly ...](#)

Developers expect to bring more than 300 utility-scale battery storage projects on line in the United States by 2025, and around 50% of the planned capacity installations will be in Texas. The five largest new U.S. ...



### [Europe's renewables market powers battery storage ...](#)

Europe's battery storage capacity is expected to grow around five-fold by 2030, bringing with it increasing returns for energy majors, project developers and traders, as the cost of new projects



### [IWIP to begin EV battery production in 2026](#)

The battery factory was inaugurated by then-president Joko Widodo on Mar. 7, 2204. The establishment of the battery factory signifies Indonesia's commitment to enter the global lithium-ion battery and EV ...



### [Powering Indonesia's future: Key takeaways from the ...](#)

After much delay, the Indonesian government has finally unveiled its proposed new Electricity Supply Business Plan (RUPTL) for 2025-2034. The RUPTL serves as a roadmap shaping Indonesia's electricity sector over the ...

### **Japan Incentivizes Battery Storage Projects Amid Growing Demand**

The ramp up of battery storage projects in Japan continues apace, aided by growing subsidy avenues and rising volumes on various electricity markets, from spot to ...



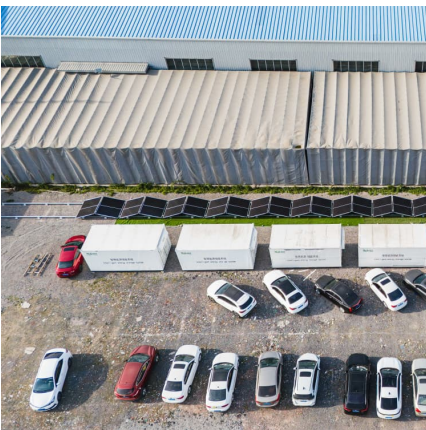
### [Indonesia plans to boost renewable usage in new ...](#)

Indonesia is aiming to increase the share of renewable energy under its electricity supply plan over the next ten years, fueled by more solar, hydro and geothermal capacity, a deputy minister said



### CATL's \$6 Billion Indonesia Battery Project Boosts EV Ecosystem

CATL launches \$6B Indonesia Battery Integration Project, covering the entire battery value chain to support EV adoption and sustainable energy solutions.



### Battery Energy Storage Roadmap

This Battery Energy Storage Roadmap revises the gaps to reflect evolving technological, regulatory, market, and societal considerations that introduce new or expanded challenges that must be addressed to accelerate ...

### Battery 2030: Resilient, sustainable, and circular

Battery 2030: Resilient, sustainable, and circular Battery demand is growing--and so is the need for better solutions along the value chain.





### Indonesia Battery Energy Storage System Market (2025-2031)

The battery energy storage system market in Indonesia is primarily driven by the need to enhance grid stability and support the integration of intermittent renewable energy sources.

### Backup power for Europe

The UK is one of the most attractive European countries for Battery Energy Storage System (BESS) investments. It currently has the highest installed grid-scale BESS capacity in Europe ...



### UK Gel Battery Market Size and Forecasts 2031

3 ???· Key Findings The UK Gel Battery Market is experiencing steady growth due to rising demand for reliable and maintenance-free energy storage solutions. Gel batteries in UK are ...

### Indonesia Home Energy Storage Market Size and ...

In INDONESIA, demand for backup power solutions is growing in urban and suburban areas where grid reliability may be affected by extreme weather or high demand.



### [GCC Gel Battery Market Size and Forecasts 2031](#)

3 ???· Key Findings The GCC Gel Battery Market is experiencing steady growth due to rising demand for reliable and maintenance-free energy storage solutions. Gel batteries in GCC are ...



### [Outlook for battery demand and supply - Batteries ...](#)

Innovation reduces total capital costs of battery storage by up to 40% in the power sector by 2030 in the Stated Policies Scenario. This renders battery storage paired with solar PV one of the most competitive new sources of ...



### **BATTERY 2030+ Roadmap**

This version of the roadmap follows the main tracks from the earlier one while including updates on most recent developments in battery research, development and commercialization. It ...





### [Indonesia's Battery Industrial Strategy](#)

There has been a revival of the LFP battery, which is cheaper than nickel-rich batteries and does not contain nickel or cobalt. An EV buyer in a middle-income country such ...

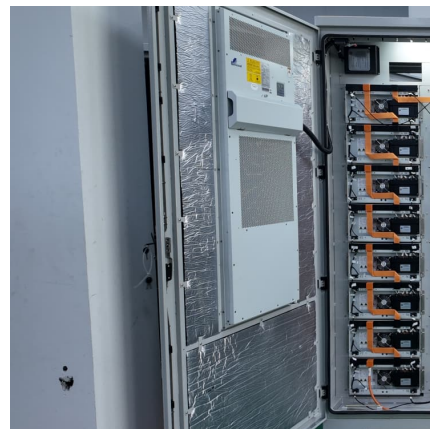


### **0.4% of global battery production capacity: Indonesia's ...**

Analysis Outline The Energy Shift Institute (Energy Shift) foresees that this year, Indonesia will hold less than 0.4% of global battery manufacturing capacity. In absolute terms, that capacity is ...

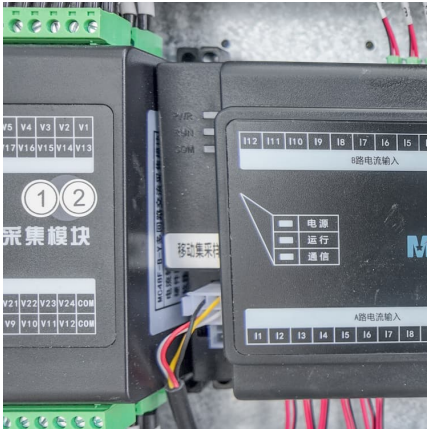
### [Indonesia, CATL Consortium begin construction on ...](#)

The venture by Indonesia Battery Corp and Chinese giant Contemporary Amperex Technology Co is part of a US\$6 billion power battery project signed in 2022 by Indonesian companies, including state-miner PT Aneka Tambang ...



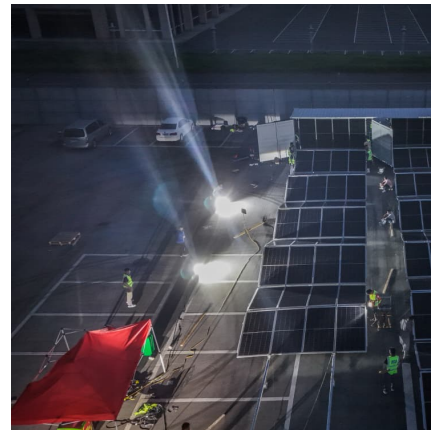
### [Powering Indonesia's Sustainable Future: The Diesel ...](#)

In March 2022, Indonesia embarked on a journey toward a more sustainable and energy-efficient future with the initiation of the Diesel Replacement Program (DRP), an ambitious project by the state electricity ...



### [LG's \\$1.7 Billion Battery Investment Expands in ...](#)

How does this investment compare to other battery manufacturing projects globally? LG's \$2.8 billion total investment in Indonesia represents a mid-sized battery manufacturing project by global standards.



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

This escalation was primarily driven by a surplus in loans, a consequence of a substantial appreciation of the United States dollar against the Indonesian rupiah during project ...

### [Indonesia Battery Market Size & Outlook, 2030](#)

The battery market in Indonesia is expected to reach a projected revenue of US\$ 4,349.0 million by 2030. A compound annual growth rate of 23.7% is expected of Indonesia battery market from 2024 to 2030.



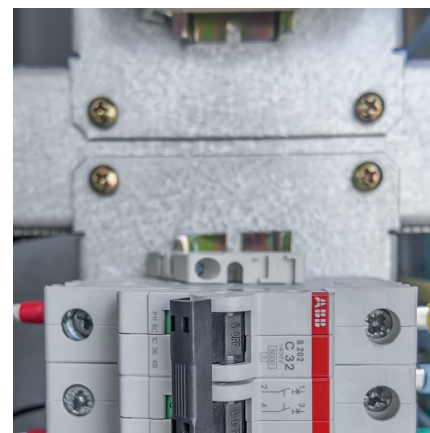


[Indonesia targets 35% renewable energy led by solar, ...](#)

Geothermal power is a key focus for Indonesia's renewable energy development. (Photo: PLN) Indonesia has unveiled its updated National Power Supply Plan (RUPTL), projecting an additional 71 GW of installed ...

[Indonesia Gel Battery Market Size and Forecasts 2031](#)

3 ???· Key Findings The Indonesia Gel Battery Market is experiencing steady growth due to rising demand for reliable and maintenance-free energy storage solutions. Gel batteries in ...



[Indonesia Home Energy Storage Market Size and ...](#)

In Indonesia Home Energy Storage Market, HES systems provide backup power during outages, ensuring critical appliances and systems remain operational.

**Indonesia Home Energy Storage Market Size and Forecasts 2030**

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