



BUHLE POWER

# Jakarta grid-side energy storage electricity price





## Overview

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How much does a battery energy storage system cost in Indonesia?

**High Initial Investment Costs:** One of the primary challenges facing the battery energy storage market in Indonesia is the high initial investment required for deployment. The average cost of installing a battery energy storage system can range from IDR 1 billion to IDR 3 billion (USD 70,000 to USD 210,000) per megawatt-hour.

How much does electricity cost in Indonesia?

The residential electricity price in Indonesia is IDR 1,444.700 per kWh or USD 0.086. The electricity price for businesses is IDR 1,114.740 kWh or USD 0.067. These retail prices were collected in March 2025 and include the cost of power, distribution and transmission, and all taxes and fees. Compare Indonesia with 150 other countries.

How does Indonesia's electricity system work?

Indonesia's electricity system can be powered predominantly by solar PV, complemented by geothermal and hydroelectric power. Off-river pumped hydro energy storage is identified as a major asset for balancing high solar energy penetration.

How big is Indonesia's electricity capacity?

In the past ten years, Indonesia has experienced a substantial expansion in its electricity capacity, which has grown from 45.2 GW in 2012 to 79.8 GW by 2022 (Ministry of Energy and Mineral Resources Indonesia, 2023), as shown in Fig. 1. Including off-grid sources, the total capacity reaches 83 GW.



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Taking grid-side energy storage investors and social demand as an example, the externalities of grid-side energy storage are the positive or negative impacts on other economic agents arising ...



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Mar 24, 2023 · A 2023's Update on The Levelized Cost of Electricity and Levelized Cost of Storage in Indonesia Imprint Making Energy Transition Succeed:



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Other work has indicated that energy storage technologies with longer storage durations, lower energy storage capacity costs and the ability to decouple power and energy capacity scaling ...

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The grid side energy storage market is expected to grow with a CAGR of 8.5% from 2025 to 2031. The grid side energy storage market in Indonesia is also forecasted to witness strong growth ...



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