

Expected ROI of business energy storage project in Indonesia 2025

What is Indonesia doing with its energy storage capacity?

Indonesia is currently building on its storage capacity through the planned/ongoing installation of 5 MW battery energy storage systems (BESS), linked to PLN's renewable sites. Indonesia is also building its first utility-scale integrated solar and energy storage project in Nusantara.

How to accelerate energy storage deployment in the Indonesian power system?

To accelerate energy storage deployment in the Indonesian power system, key actions are needed to address existing opportunities and challenges, including: Tapping into the limited but existing opportunities for deploying energy storage systems (ESS) is vital for expanding their role in Indonesia's power sector.

How much solar energy investment in Indonesia has doubled in 2021?

Alvin Putra Sisdwingraha, Lead Author of ISEO 2025 and IESR's Electricity and Renewable Energy Analyst, revealed that solar energy investment in Indonesia has doubled, from USD 68 million in 2021 to USD 134 million in 2023.

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.

Does Indonesia have a battery energy storage system?

To work around this, electricity can be generated during the country's windy or sunny periods, and the excess can be stored for use in latent periods. Indonesia is currently building on its storage capacity through the planned/ongoing installation of 5 MW battery energy storage systems (BESS), linked to PLN's renewable sites.

How much investment does Indonesia need to achieve RUPTL?

The total investment required to realize the 2025-2034 RUPTL is projected at USD 188 billion (IDR 2.967,4 trillion). This substantial figure reflects Indonesia's ambition to drive the energy transition toward a more modern, resilient, and sustainable national electricity system.

Understanding the true cost of renewable energy In theory, renewable energy is cheaper to produce than fossil fuels, but the way total energy costs are calculated is complex and involves an understanding of upfront investment, operating ...



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