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Brazil promotes new energy storage industry



Overview

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The auction will offer ten-year contracts from July 2029. The auction aims to boost Brazil's grid reliability by integrating energy storage for wind and solar power. Credit: r.classen/Shutterstock. Brazil is set to conduct its first auction for adding batteries and storage systems to the national.

A study by Brazilian consultancy Greener has indicated that the country installed 269 MWh of energy storage capacity in 2024, growth of 29% from 2023. Demand for battery energy storage system (BESS) components grew 89% in Brazil from 2023 to 2024 and most of the resulting systems are likely to be.

Brazil's energy storage industry is evolving rapidly, with an estimated capacity of 250 MWh as of 2023, primarily from rural and rooftop installations¹. The sector is expected to attract \$7 billion in investments by 2030, as stakeholders work on a regulatory framework to support.

The conditions are in place for the country's battery energy storage market to expand at a compound annual growth rate (CAGR) of 20% to 30%, as Holu Solar's Sophia Costa explained. From ESS News Brazilian energy suppliers raised the red flag in September 2024, signaling a rise in electricity costs.

A recent study highlights that implementing energy storage technologies, such as lithium-ion batteries and pumped hydro, could lower Brazil's electricity system costs by up to 16% by 2029. These solutions are expected

to improve system reliability and increase the integration of renewable energy.

Flexible generation and correlated solutions, including battery energy storage systems (BESS), are therefore likely to be at a premium in the future. Accordingly, in this article we delve into some key themes regarding the development and exploitation of battery storage solutions in Brazil.

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