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How much does Brazilian energy storage power cost



Overview

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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 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 is set to conduct its first auction for adding batteries and storage systems to the national power grid, as reported by Reuters. The auction, to take place in June 2025, will include 300MW energy capacity purchase that could drive an estimated \$450m in investments from winning bidders.

It is estimated that by 2029, the application of energy storage technologies such as lithium-ion batteries and pumped hydroelectric storage could reduce Brazil's average power system costs by up to 16%, while also enhancing power supply reliability and reducing reliance on fossil-fuel thermal power.

Markus Vlasits, president of the Brazilian Association of Energy Storage Solutions (Absae), explains that the calculation is based on the value of the megawatt-hour (R\$/MWh) and in comparison with the need to operate thermoelectric plants, known for their high cost and dependence on fossil fuels.

Deployment of behind-the-meter (BTM) energy storage in commercial, industrial, and residential sectors is gaining traction as end-users seek energy cost savings and backup power capabilities. Declining lithium-ion battery costs and advancements in battery chemistry are making large-scale energy.

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