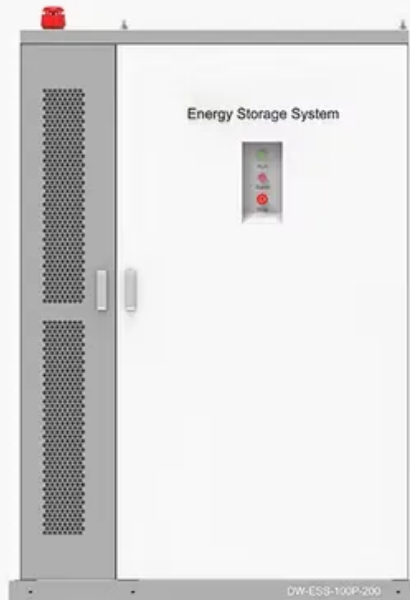


SolarTech Power Solutions

Distributed Energy Storage in Brazil

◆ PRODUCT INFORMATION ◆



BATTERY CAPACITY
50kWh~500kWh



DC VOLTAGE RANGE
400V~1000V



DEGREE OF PROTECTION
IP54



OPERATING TEMPERATURE RANGE
-10~50°C



Overview

This document outlines strategic guidelines for distributed generation and battery storage behind the meter, highlighting how Brazil intends to advance its energy sector to accommodate future demands and technological advancements. Will Brazil install a battery energy storage system in 2024?

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 installed in 2025.

What is driving Brazilian energy storage demand?

An unreliable grid is driving Brazilian energy storage demand. The world is set to have more than 760 GWh of energy storage capacity by 2030, led by Chinese and United States markets dominated by utility-scale systems.

Are battery storage systems viable in Brazil?

In Brazil, the cost of turn-key battery systems is notably high due to significant tax burdens. However, future projections indicate a potential reduction in battery costs, which could enhance economic feasibility for various applications. The booklet explores the viability of battery storage systems across different scenarios. For instance:.

Can dynamic distribution system operators help balancing Brazil's decarbonization goals?

Traditional distribution utilities must transition into dynamic distribution system operators (DSOs) to manage bidirectional power flows, integrate DERs and enhance grid resilience. This shift is critical to balancing Brazil's decarbonization goals with rising energy demand, which is projected to grow at 3.4% annually through 2034.

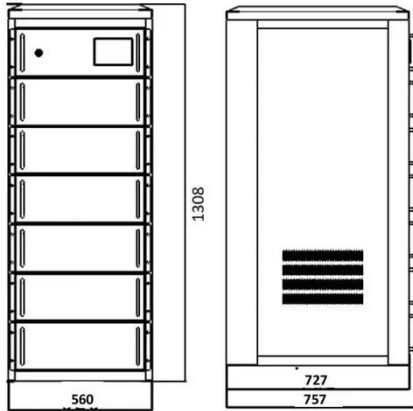
How big is Brazil's energy infrastructure?

The transmission network now spans approximately 200,000 kilometers of lines operating at various voltage levels, with a compound annual growth rate of 4.8% between 2018 and 2023.²⁴ This robust expansion highlights Brazil's exceptional capacity for energy infrastructure planning, particularly in overcoming challenging geographical conditions.

Can foreigners invest in battery storage businesses in Brazil?

Investment, incentives and taxation scenarios According to Brazilian law, there are no legal restrictions on direct foreign investment in the battery storage businesses or in the power sector (except in very specific segments or sectors of the economy).

Distributed Energy Storage in Brazil

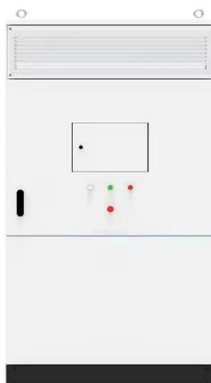


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