

## European Solar and Energy Storage Solutions

# Brazil battery storage requirements



## Overview

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The market and regulatory changes that will be necessary to support the uptake of electricity storage in Brazil are seeing the first steps being taken with the plans of modernizing the electricity sector and inclusion of storage under the regulatory agenda of 2020/21.

The Brazilian National Electric Energy Agency (ANEEL) is entering a new phase of dialogue on energy storage regulation. On December 10, 2024, ANEEL presented the results of the first phase of Public Consultation (CP) No. 39/2023 and announced the opening of a second phase for further contributions. Stakeholders can provide feedback from December 12, 2024, to January 30, 2025.

Brazil's energy storage sector must attract R47 billion (\$7 billion) in investments by 2030, according to the Brazilian Energy Storage Solutions Association (Absae). Stakeholders are in the process of creating a regulatory framework for energy storage.

Solar energy storage in Brazil is expected to attract BRL 45 billion (\$7.8 billion) in investment by 2030, according to a study by Brazilian developer NewCharge Energy. Of that total, BRL 14 billion would be allocated to off-grid applications, BRL 16 billion to utility-scale systems, and BRL 15 billion to commercial and industrial (C&I). How will battery energy storage solutions help Brazil?

The research, development and piloting of battery energy storage solutions is expected to help Brazil identify a strategy to grow the energy storage market and improve its renewable energy portfolio, reduce carbon emissions and

secure its energy supply.

Is energy storage legal in Brazil?

Brazil's regulatory framework does not prohibit energy storage solutions, but there are currently no specific regulations on storage. At the end of 2023, most BESS applications in Brazil were behind the meter. There is a proposed law on energy storage to encourage front-of-the-meter BESS, but Congress has not prioritized its approval.

Is electricity storage a legal asset in Brazil?

Nevertheless, before ANEEL can incorporate storage within the regulation of the electricity sector, defining this kind of asset will be important [ 6 ]. As in most electricity markets, electricity storage is yet to be defined under Brazil's legal framework and regulation.

Is Brazil bringing storage into the energy transition?

Brazil is taking its first steps toward its ambitions of bringing storage into the energy transition of its electricity sector.

Should storage be regulated in Brazil?

Consequently, it is important to distinguish that certain matters should be disciplined by the law in Brazil, while others are purely regulatory. In light of no action from legislative power, the regulator has taken the lead and is covering most matters involving the inclusion of storage in the Brazilian electricity system. 1. Introduction.

Why is electricity storage important in Brazil?

Electricity storage in Brazil The rise of renewable intermittent sources and the fall of stored energy in hydropower dams raises the risks associated to power security, but it can also pave the way for new technologies such as electricity storage [ 12 ].

## Brazil battery storage requirements

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### Brazil announces its first battery storage auction

The Brazilian Ministry of Mines and Energy (MME) has announced a public consultation ahead of the country's first battery storage auction scheduled for June 2025. The auction will follow a capacity reserve auction model (LRCAP), with awarded contracts lasting for ten years, with the first scheduled to start on the 1 st of July 2029.

### Deye announces Brazil battery factory, first outside China

EU Battery Regulation is coming Manufacturers and suppliers of batteries for photovoltaic energy storage must meet more extensive requirements under the new EU battery regulation. Many companies are still unsure what this means for their product design, processes, and management systems.



### the key to the energy transition in Brazil

In order to make use of the advanced battery technology, the legal, technical, educational and economic framework conditions in Brazil require analysis and, in part, improvement. These steps can directly enable the use of battery storage and e-mobility.

## 46 CFR Part 111 Subpart

## 111.15 -

Subpart 111.15--Storage Batteries and Battery Chargers: Construction and Installation Each battery must meet the requirements of this subpart. [CGD 94-108, 61 FR 28277, June 4, 1996] § 111.15-2 Battery construction. (a) A battery cell, when inclined at 40 degrees from the vertical, must not spill electrolyte.

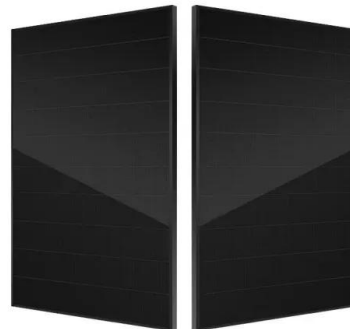


### Analysis: Battery energy storage in Brazil

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### Advancing Energy Storage Regulation in Brazil

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## The state of battery storage (BESS) in Latin America: A ...

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## Storage will be key to modernizing Brazil's electricity sector

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## Brazil plans to include batteries and energy storage solutions in ...

The Brazilian government plans to include batteries and other forms of energy storage to compete in energy auctions which are set to happen in the first half of 2024, an official from the Mines



## The state of battery storage (BESS) in Latin America: A sleeping ...



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## Brazil Battery Energy Storage Market Report

This section provides an assessment of COVID-19 impact on Brazil Battery Energy Storage Market demand in the country. Brazil Battery Energy Storage Market Size and Demand Forecast The report provides Brazil Battery Energy Storage Market size and demand forecast until 2027, including year-on-year (YoY) growth rates and CAGR.

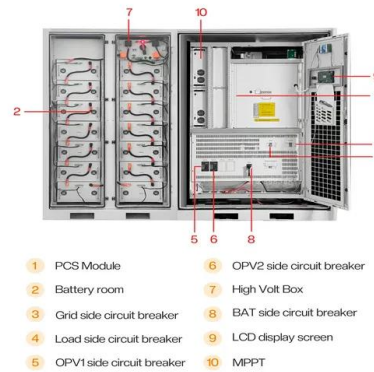


## VIDEO: Evolving large-scale fire testing requirements for battery

Energy-Storage.news proudly presents our sponsored webinar with CSA Group on large-scale fire testing (LSFT) of battery energy storage systems (BESS). As the adoption of energy storage systems (ESS) expands across residential, commercial, industrial, and utility sectors, the need for heightened safety measures becomes critical.

## Australian utility-scale battery deployment surges past solar, wind

1 ??· With the commencement this month of construction on two new utility-scale battery projects in the Australian states of Queensland and New South Wales, 2024 set new records for BESS project construction in the country. The two projects brought the total of new big batteries that have broken ground in 2024 to 4.9 GW/13 GWh.



**LPR Series 19'  
Rack Mounted**



## Electricity markets and regulatory developments for storage in Brazil ...

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## Brazil's battery storage market could attract \$7.8bn investment ...

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## Brazil launching auction for battery storage projects in 2025

The Brazilian Minister of Energy and Mining has



unveiled an auction for battery energy storage projects to be held in 2025. A public consultation regarding the auction should be launched in the coming days, as details regarding the capacity sought and the total amount allocated for the auction have not yet been disclosed.

## Brazil Outdoor Battery Energy Storage Integrated Cabinet

Brazil Outdoor Battery Energy Storage Integrated Cabinet Market Insights Report 2024 Spread Across 126 Pages, this report offers a comprehensive and in-depth analysis of the Brazil Outdoor Battery



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