

Can Utility-scale energy storage systems be used in Brazil?

Such challenges are minimized by the incorporation of utility-scale energy storage systems (ESS), providing flexibility and reliability to the electrical system. Despite the benefits brought by ESS, the technology still has limited investment and application in Brazil.

Does Brazil need energy storage regulations?

Specifically for Brazil, as shown in the results, there is no resolution that specifically addresses energy storage, even though some regulations currently in force may indirectly influence the adoption of ESS technologies, such as regulations for electric vehicles, differentiated hourly tariffs, among others.

How big will energy storage be in 2040?

More recently, estimates show that energy storage facilities around the world will multiply exponentially from 9 GW implemented by 2018 to 1095 GW by 2040, requiring investments in the order of US\$662 billion, with the majority of the new capacity being utility-scale storage.

How can ESS be economically viable in the Brazilian electricity market?

Some actions already implemented in the Brazilian electricity market, such as the hourly spot prices and the reduction of the minimum size required to access the free market, are considered necessary starting points in search of the economic viability of utility-scale ESS.

Is ESS financially viable in the current Brazilian regulatory framework?

The financial viability of ESS, in the current Brazilian regulatory framework, is unlikely. Thus, this article discusses the main regulatory aspects that are being adopted in countries that are at the forefront of implementing an ESS and the application possibilities for regulatory adequacy in the Brazilian scenario.

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).



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