

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.

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.

ISO CTEEP claimed it as the first large-scale battery energy storage system (BESS) on Brazil's transmission grid. The project required a total US\$27 million investment. The transmission operator is permitted by regulations to earn up to US\$5 million revenues from the asset each year.

Due to various incentives and policies, Brazil's optical storage market has seen a rapid growth. The document presents a comprehensive list of the top 10 energy storage companies including Baterias Moura, BYD, Freedom Won, Blue Nova Energy, Intelbras, Huntkey, FIMER, SMA Solar, Sungrow, and SolarEdge.

In the example category, Brazil shines by being innovative in its energy storage projects. Other renewable energy are enhanced by hybrid mix, using lithium batteries together with flywheels, hydrogen cells and compressed air in Brazil.

The electricity supplied by storage facilities would be settled on Brazil's short-term energy market and paid into the Power Account for Capacity Reserve. Contracted volumes of energy would be settled without price risk to the storage plant operator.

Brazilian mining giant Vale is partnering with Siemens and MicroPower Comerc on a 5MW/10MWh lithium-ion battery system at a large port facility in Rio de Janeiro. Featuring the first Tesla Megapacks deployed in Brazil, Vale's system will be owned and operated by MicroPower Comerc.

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