

SolarTech Power Solutions

How big a market is needed for hybrid energy storage projects



Overview

What drives energy storage project development?

Globally, energy storage project development is increasingly driven by the utility-scale segment, with mandates and targeted auctions driving gigawatt-hour projects in markets like China, Saudi Arabia, South Africa, Australia and Chile.

Is China entering a new era of energy storage demand?

Mainland China accounts for most of the global energy storage demand, driven in the near term by regional requirements for new utility-scale wind and solar projects to include energy storage capacity. However, the Chinese market is entering an era of change.

What is HDRE energy storage system in Japan?

HDRE, a Taiwan-based company, entered the energy storage system in Japan market by securing a 20-year government subsidy for its decarbonization initiatives. The company plans to build 1.5 GW of energy storage systems in Japan over the next three years, involving a capital investment of approximately US\$ 1.50 billion.

How can a new energy storage technology transform centralized grid operations?

Innovative Technologies: Startups such as Stem and Anthropic are developing groundbreaking energy storage technologies using AI, predictive algorithms, and smart sensors. Products like virtual power plants optimize output, reduce costs, and increase reliance on renewables. Their success could transform centralized grid operations.

Should energy storage be removed from energy grid connection?

For energy storage, the new Chinese policy emphasized the need to remove energy storage as a prerequisite for renewable energy project grid connection,

a requirement that has been a major driver for battery build. Nonetheless, BNEF still expects strong demand for batteries, as the policy doesn't explicitly require mandates to stop.

How much energy is stored in China in 2023?

For instance, data published by Statista in October 2025, in 2023, over 23 gigawatts in energy storage capacity had been added in China, which was a 221 percent increase compared to the previous year. Popular storage methods are pumped hydro and lithium-ion batteries.

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