

SolarTech Power Solutions

Spanish grid-side energy storage capacity



Overview

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As of 31 December 2023, the Spanish electricity system's power generation capability, including both the mainland and non-mainland systems, had increased by 5.2 % compared to the previous year, reaching an all-time high with an installed power capacity of 125,620 MW. Installed renewable power.

Spain had more than 1,100 hours of zero- or negatively-priced electricity in 2024: more than 45 days. Despite this, battery energy storage systems (BESS) remain rare, with grid operator Red Eléctrica España (REE) recording just 3.36 GW of grid-connected energy storage, 3.3 GW of which was pumped.

Of the grants distributed, €343.35 million will finance storage projects co-located with renewable energy generation, €187.8 million will finance pumped hydro energy storage (PHES) facilities, €177.4 million will go to standalone storage sites; and €131.1 million will back thermal storage.

Renewable generation is now joined by storage projects, and Spain occupies a prominent place as the country with the second largest projected capacity for stand-alone batteries at an advanced stage of development. With a significant deployment of renewable energy capacity, Spain stands out in this.

Perhaps the most significant measure is the government's clear commitment to energy storage. Spain has now set a national storage target of 22.5 GW para 2030, underlining its recognition that storage is essential for balancing intermittent renewable generation and ensuring system reliability.

The Spanish energy market is gradually emerging as the frontrunner in decarbonising power generation segment. The energy crisis of 2022 helped reinforce the policy resolve. The government's draft climate strategy plan document aims for an over 80% renewable energy penetration by 2030. The grid.

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