

# What is the energy storage system of the Spanish power station



## Overview

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Spain currently has about 7 GW of storage capacity, mostly hydroelectric. The National Energy and Climate Plan (PNIEC) targets 22. These installations offer energy storage efficiency, are a flexible and secure solution, promote the integration of renewable sources into the energy. Spain ranks second worldwide, after the United States, in the development of battery energy storage systems (BESS), according to EY's new Infrastructure Compass 2025 report. Spain is preparing for an unprecedented expansion in battery energy storage and now ranks as the world's second-largest. Valdecañas pumped-storage hydroelectric power station (Credit: Iberdrola España) Iberdrola España has commissioned the first pumping station set at Valdecañas, in Cáceres, Extremadura, which has a total capacity of 225 MW and includes a hybridized battery of 15 MW and 7. The. As of 31 December 2024, the Spanish electricity system's installed capacity, including both the peninsular and non-peninsular systems, as well as generation and storage capacity, had increased by 4.6% compared to the previous year, reaching an all-time high with an installed power capacity of. Spain, a sun-drenched land of flamenco and fiestas, is now dancing to a new rhythm – the hum of lithium-ion batteries storing renewable energy. With 19GW of residential solar capacity and growing grid-scale projects [1], Spain's energy landscape is undergoing a silent revolution. But here's the. Global energy storage capacity was estimated to have reached 36,735MW by the end of 2022 and is forecasted to grow to 353,880MW by 2030.

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### The Rise of Spanish Lithium Battery Energy Storage Systems: ...

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### Energy storage regulation in Spain , CMS Expert Guides

Are you looking for information on energy storage regulation in Spain? This CMS Expert Guide provides you with everything you need to know.



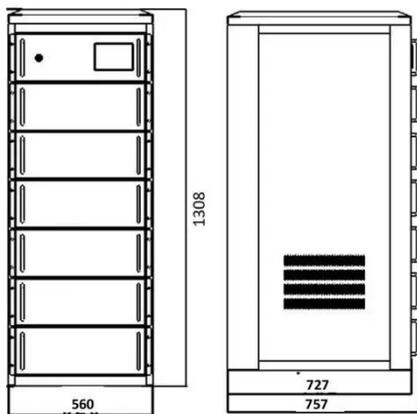
### Installed capacity , System reports

As for the Spanish electricity system's installed storage capacity in 2024, it stands at 3,356 MW, of which 3,331 MW correspond to pumped storage and 25 MW to batteries, which have increased by 1.0% ...



### Energy: Powering through 2025 - key legal challenges and ...

Energy sector stakeholders in Spain--including developers, investors, and infrastructure operators--face a critical year of legal and regulatory developments. Renewable generation is ...



### Top five energy storage projects in Spain

The Caceres Solar Power Plant - Thermal Energy Storage System is a 50,000kW molten salt thermal storage energy storage project located in Caceres, Valdeobispo, Extremadura, ...

### Iberdrola switches on 210 GWh Spanish pumped hydro-battery project

Iberdrola Spain has begun commissioning the 225 MW Valdecañas pumped hydro energy storage (PHES) plant which is hybridized with a 15 MW / 7.5 MWh battery energy storage system.



### Exploring the roles of storage technologies in the Spanish electricity

Energy Storage Systems (ESSs) such as Pumped Storage Hydro units (PSHs) and

batteries are technologies that can shift energy at different timeframes to cope with the high ...



### Iberdrola España commissions first pumping station at Valdecañas ...

Iberdrola España has commissioned the first pumping station set at Valdecañas, in Cáceres, Extremadura, which has a total capacity of 225 MW and includes a hybridized battery of 15 ...



### Spain developing 16 GW of battery storage by 2030, accounting for ...

Spain ranks second worldwide, after the United States, in the development of battery energy storage systems (BESS), according to EY's new Infrastructure Compass 2025 report.

### Pumping stations in Spain

Iberdrola España currently leads in energy storage, with 4.5 GW of capacity installed in Spain and Portugal using pumped-storage technology, the most efficient method at present.



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