

Spain riftbreaker energy storage

What is the first electric energy storage system in Spain?

In November 2019, Iberdrola España inaugurated the first electrical energy storage system with lithium-ion batteries for distribution networks in Spain.

How many new energy storage projects are in Spain?

Spain targets 20GW of new energy storage by 2030. The first tender ended up being oversubscribed with more than 1.1GW/1.1GWh capacity, between 58 projects, not selected for the funding of the tender. The projects that were awarded in the PERTE tender were measured based on four criteria, with different points.

Why are battery storage options more suitable in Spain?

As a result, shorter duration storage options like batteries are more suitable in Spain. In Spain, over 50% of excess renewable energy occurs in periods where there is continuous excess for less than 12 hours i.e. a battery that chooses to charge on this energy would be able to discharge within 12 hours.

Does Spain have long-duration energy storage?

Aurora's analysis of long-duration energy storage in Spain, commissioned by Breakthrough Energy, is available in a free, public report--download it [here](#). Renewable power generation has been at the forefront of Spain's efforts to reduce greenhouse gas emissions over the past two decades.

Will Spain's plans to expand renewable power capacity lead to a 'economic curtailment'?

Spain's plans to rapidly expand renewable power generation capacity threaten to lead to frequent periods when generators cannot recoup their running costs, resulting in the waste--or "economic curtailment"--of over 5% of total renewable generation in 2025-2035, new analysis by Aurora Energy Research finds.

Could long-duration energy storage reduce economic curtailment in Spain by 2035?

Long-duration energy storage (LDES) offers a vital solution: deploying 15 GW would eliminate economic curtailment in Spain by 2035, accelerating progress to Net Zero and reducing power system costs, Aurora's modelling shows.

Energy storage systems in Spain are a key element in the fight against climate change, as they help us to address the challenge of the energy transition. These systems make renewable energy production more flexible; and therefore help us to guarantee its integration into the Spanish electricity system.

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3 ???· According to the IEA's "Spanish Energy Policy Review 2021", Spain aims to build large-scale new renewable energy capacity, especially wind and solar energy, which is expected to reach 74% of electricity generation in 2030.

6 ???· EUROPE'S biggest pumped storage facility with enough capacity to supply 10 million people with power for a day is earmarked for Spain. Spanish giant Iberdrola is set to build the ...

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LCP Delta and Santander have combined their expertise to analyse the opportunity for investment in battery energy storage systems (BESS) in Spain. With a high degree of solar generation in 2030, coupled with limited levels of interconnection, the Spanish market looks set to be a BESS hotbed once policy conditions adapt.

The government of Spain, through the Institution for the diversification and energy savings (IDAE) has awarded 880MW/1809MWh in its first tender for energy storage to be co-located with renewables.

Iberdrola España will install six Battery Energy Storage Systems (BESS) with a combined capacity of 150 MW. This is an innovative solution for the storage and integration of renewable energies into the system. Each ...

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Long-duration energy storage (LDES) offers a vital solution: deploying 15 GW would eliminate economic curtailment in Spain by 2035, accelerating progress to Net Zero and reducing power system costs. LDES could also play a pivotal role in decarbonising industry, with some thermal storage technologies delivering low enough heat costs to feasibly ...

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Spain's Ministry for Ecological Transition and the Demographic Challenge (MITECO) has published the provisional resolution of its first tender for innovative storage projects.

The 2023 NECP proposes a 173% increase (or 85 GW) in renewable capacity by 2030 from current capacities¹; storage² is expected to increase by 487%, or 15 GW from installed capacity. Long Duration Energy Storage (LDES) can ensure renewable energy is utilised in the system while decreasing reliance on CO₂ emitting technologies

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