

Expected ROI of utility scale ESS project in Spain 2030

How much energy storage will Spain have by 2030?

In its National Energy and Climate Plan (NECP), the Spanish government aims to have 22.5GW of energy storage by 2030 (see table 1). This amount of storage capacity will be needed to integrate the growing capacity of intermittent generation.

How can we improve Spain's grid resilience?

We have a common objective to improve Spain's grid resilience and support the market's ambitious energy storage growth targets," said Isaac Garcia Moreno, executive director of BW ESS. Under its National Integrated Energy and Climate Plan, Spain is pursuing a goal of having 22.5 GW of installed batteries by 2030.

Why did BW ESS move to Spain?

For BW ESS, a firm with a growing global portfolio across the UK, Australia, and other parts of Europe, the move into Spain is a calculated one. "We have a common objective to improve Spain's grid resilience and support the market's ambitious energy storage growth targets," said Isaac Garcia Moreno, Executive Director of BW ESS.

Does Spain need a Bess energy system?

Currently, Spain has 6.3GW of hydroelectric and 1GW of thermal storage capacity installed. In fact, the non-BESS storage capacity in Spain is higher than in any other European country. As a result, the need for BESS to integrate renewable energy sources into the electricity system is less immediate than in the UK, for example.

What is Spain's regulatory framework for energy storage?

Spain's regulatory framework for BESS is set in its Strategy for Energy Storage. The Strategy identifies the required regulatory measures - such as grid access, market structure, and addressing double tolling - that are currently needed to ensure the deployment of a solid energy storage market.

How many Bess projects are there in Spain?

In March 2025, UK companies Renewco and Atlantica announced the development of up to 2.2GW of BESS projects across Spain. Other projects in the pipeline primarily involve storage co-located with solar or wind generation. According to BloombergNEF, the total capacity currently in the BESS pipeline is around 3GW.

With 106.1 GW of additional utility-scale solar projects in announced or pre-construction status, Spain could achieve its 2030 solar target by bringing less than a quarter of these existing proposals (24.7 GW) online in the next six years.



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In a significant development for India's renewable energy sector, a solar project integrated with energy storage has recorded a tariff of INR3.32 per unit--5.8 per cent lower than the rate discovered in a similar tender by SECI in ...

24 June 2025, MADRID -- Global energy storage owner-operator BW ESS and Getxo-based energy storage developer Ibersun have signed a joint venture to develop, in its first phase, 2.2GW of utility-scale battery energy storage system ...



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