

# Expected ROI of portable ESS system 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.

What is the market energy storage in Spain?

The market energy storage in Spain, particularly in relation to the BESS systems (Battery Energy Storage Systems), is undergoing a dynamic and accelerated evolution. This transformation is driven by the growing need to integrate renewable energy sources into the electricity grid, improve supply stability and optimize energy use.

Will Spain have 22.5 GW of batteries by 2030?

Under its National Integrated Energy and Climate Plan, Spain is pursuing a goal of having 22.5 GW of installed batteries by 2030. The growing need for energy storage capacity is driven by the expansion of wind and solar power generation and the limited interconnection between the Iberian Peninsula and its European neighbours.

Why do we need battery energy storage systems in Spain?

Due to the large capacity of installed hydroelectric and thermal storage systems and the resilience of the Spanish power grid, the need for Battery Energy Storage Systems (BESS) in Spain has been relatively low. The lack of a clear regulatory framework for BESS has also hindered its development in Spain so far.

How does Spain support the development of energy storage?

To support this growth, Spain has implemented several policies and regulations that encourage the development of energy storage. The Energy Storage Strategy 2030, promoted by the Ministry for the Ecological Transition and the Demographic Challenge, is one of the key initiatives. This strategy aims to achieve a storage capacity of 20 GW by 2030.

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.

The BESS providers in this segment generally are vertically integrated battery producers or large system integrators. They will differentiate themselves on the basis of cost and scale, reliability, project management ...



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In order to assess the ROI of a battery energy storage system, we need to understand that there are two types of factors to keep in mind: internal factors that we can influence within the ...

U.S. battery storage capacity has been growing since 2021 and could increase by 89% by the end of 2024 if developers bring all of the energy storage systems they have planned on line by their intended commercial ...

30th June 2025 0 4 Global energy storage owner-operator BW ESS has partnered with Spanish developer Ibersun to launch a joint venture that will deliver 2.2 gigawatts (GW) of utility-scale ...

Between 2020 and 2030, the Spanish NECP foresees a significant installed capacity increase of 70% for solar photovoltaic (Solar PV), 40% for wind, and 64% for ESS -- ...

This report concludes that storage systems are not profitable under the current Spanish regulatory framework, where the revenues are obtained in short-term markets:

In this report, we delve into the developments in the regulatory framework of the Spanish electricity system and explore the potential of Spain's battery energy storage systems ...

Spanish battery installations in 2024 represent a 41% decline relative to 2023, the Spanish market has been declining since 2022 In 2025, Spain is expected to climb to become ...

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The country aims to achieve 500 GW of non-fossil-fuel-based capacity by 2030, requiring extensive deployment of energy storage systems (ESS) - particularly pumped storage projects (PSPs), battery energy storage ...

Energy shifting and flexibility services provided by energy storage are indispensable for system reliability and securing supply of energy to cope with moments of low renewables and also ...

Spanish wholesale markets have offered increasing revenues due to recent price volatility which rewards BESS through power trading. However, sustained investment in batteries will be ...

Spain's hope is that it will eventually have one of the biggest energy storage markets in Europe. It certainly needs significant storage capacity, given the growth of solar and ...

The core of renewable energy! The entire world is starting to take notice of ESS. The market for energy storage system (ESS) is expanding as the world advances its carbon ...



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A total of 43 projects were selected from 79 applications in Portugal's 2025 energy storage procurement. This included six projects from Spain's Iberdrola, which secured ...

Global energy storage owner-operator BW ESS and Spanish energy storage developer Ibersun have signed a joint venture to develop, in its first phase, 2.2GW of utility ...

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, ...

This solution is suitable for outdoor power consumption scenarios such as family travel, outdoor exploration, outdoor operations, emergency rescue, and emergency backup. The portable ...

Providing insight, analysis and finance to support the global energy transition LCP Delta and Santander have combined their expertise to provide this report into the opportunity for ...

The growth rate of the global ESS market from 2025 to 2030 is expected to be approximately 10%, and the global ESS market demand may reach around 477 Gwh by 2030.

The Europe Battery Energy Storage System (BESS) Market is expected to reach USD 15.54 billion in 2025 and grow at a CAGR of 16.06% to reach USD 32.71 billion by 2030. Fluence Energy Inc., Tesla Inc., BYD Co. ...

Spain is experiencing significant growth in the energy storage market, driven by its firm commitment to the renewable energy targets set out in the National Integrated Energy and Climate Plan (PNIEC) 2021-2030.

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

Measures included in the 2030 Energy Storage Strategy include financial incentives and a focus on research and development of new storage technologies. These efforts aim to facilitate the adoption of innovative solutions ...

Energy Storage Systems Market Size The global energy storage systems market was estimated at USD 668.7 billion in 2024 and is expected to reach USD 5.12 trillion by 2034, growing at a ...

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