

# **Containerized renewable power project ROI in Spain**





## Overview

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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.

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.

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 the European Commission's new energy storage support scheme?

The European Commission approved a new support scheme. It targets large-scale energy storage projects in Spain. It focuses on technologies like standalone battery energy storage systems (BESS), pumped hydro energy storage (PHES), and thermal energy storage.

Will energy storage be co-located with renewable power?

In the past 12 months, the country has launched and awarded several auctions for energy storage, including its first tender for energy storage to be co-located with renewable power. Through the Institution for the



Diversification and Energy Savings (IDAE), the tender awarded 880MW/1,809MWh of energy storage in November 2023.

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.



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### [Spain's EUR700 Million Plan to Boost Energy Storage ...](#)

The program supports hybrid projects, which combine storage with renewable energy, such as solar or wind farms. Spain's electricity grid already generates more than half of its power from renewable sources. Renewable ...

### [EU approves Spain's EUR700m energy storage subsidy ...](#)

The European Commission on Monday approved a new aid scheme for the deployment of large-scale electricity storage in Spain. Subsidies will be available for standalone energy storage sites, projects installed ...



### **Spain's EUR700M BESS Container Subsidy: How to Grab the EU's ...**

Want the lowdown on Spain's EUR700M BESS Container Subsidy? Learn how to qualify, nail the application, and cash in--no pirate maps needed, just pro tips to bag EU's biggest storage grant!

### [Spain's EUR700 Million Plan to Boost Energy Storage ...](#)

Spain has launched an ambitious EUR700 million (around \$796 million) program to increase its energy storage capacity. This plan will add 2.5 to 3.5 gigawatts (GW) of storage. It includes pumped hydro, thermal energy storage, ...



[Spain's renewables hit record 56% of power ...](#)

Coal's contribution to the generation mix fell to a record low of 1.1%. The increase in renewable power generation and the decline in output from fossil fuels is expected to result in nearly 77% of Spain's electricity production ...

**Must better connect "energy island" Iberian Peninsula ...**

High-voltage power lines that are part of the electricity interconnection project between France and Spain. Photo: European Union. Insufficient grid connections mean that Central Europe and Northern Europe ...



**BESS Container for EU Construction Sites: Cutting Diesel Use, ...**

Tired of diesel generators guzzling fuel and missing the EU's 2025 CPR renewable energy rules? Our BESS Container for EU Construction Sites fixes that--portable, tough, and paired with ...



[McKinsey: Spain and Portugal can Lead Green EU](#)

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Spain and Portugal's green energy goals  
Currently, Spain aims to build around 90 gigawatts of renewable power capacity and Portugal's goal is to add about 25 gigawatts by 2030 compared to 2023. Green hydrogen has huge ...



[Containerized Battery Energy Storage System ...](#)

Containerized Battery Energy Storage Systems (BESS) are essentially large batteries housed within storage containers. These systems are designed to store energy from renewable sources or the grid and release it ...



**Spain**

Juan Barreiro Grandío Country Manager, Spain  
Juan Barreiro Grandío is our Country Manager for Spain. Juan is a highly skilled professional with around 25 years' experience in the renewable energy sector, especially in wind energy. ...

PUSUNG-R (Fit for 19 inch cabinet)



[Renewables attract foreign investment in Spain](#)

Several investment projects in renewable energy initiatives worth millions of euros have been announced in Spain in the past week. This ranges from generating sustainable hydrogen from waste to decarbonising industrial ...



[Spain Approves Nearly 300 Renewable Power ...](#)

This initiative not only supports Spain's energy goals but also sets a precedent for other countries to follow. With this approval, Spain is on track to significantly enhance its renewable energy infrastructure, reinforcing its ...



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Containerized energy storage seamlessly integrates with solar and wind power projects, addressing the intermittent nature of renewable energy sources. This integration enhances grid stability and reliability, making ...



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