

## ContainerPower Energy Solutions

# Spanish Telecom BESS Power Station Type



## Overview

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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.

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 many homes can a Bess power system provide?

A medium to large utility-scale BESS can provide energy to over 100,000 homes! BESS are installed in a fenced-in, separate area, near a substation or power transmission line, in either 20' or 40' shipping containers that are easily removable at end-of-life. During low-demand periods, excess energy is stored in advanced battery systems.

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.

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.

Does Spain need government support for Bess?

In Spain, significant growth has been seen in the BESS field over the last few years in the context of the National Integrated Energy and Climate Plan (PNIEC). However, there are still opportunities within the associated policies and regulations to unlock the necessary government support for these initiatives.

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