

SolarTech Power Solutions

Battery Energy Storage in Spain by 2025



Overview

What is energy storage in Spain?

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. The program supports hybrid projects, which combine storage with renewable energy, such as solar or wind farms.

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 will Spain increase its energy storage capacity?

Spain has launched an ambitious €700 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, and battery systems.

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 much battery storage capacity will Spain have in 2027?

The capacity installed in grid-scale battery storage systems in Spain is forecast to increase from 56 megawatt-hours in 2023 to approximately 5.4 gigawatt-hours in 2027. By comparison, Italy's grid-scale battery storage

capacity is projected to reach up to 15 gigawatt-hours by 2027. Get notified via email when this statistic is updated.

How has Spain strengthened its energy infrastructure?

Spain has taken a decisive step in strengthening its energy infrastructure with the launch of a €700 million support scheme aimed at expanding large-scale energy storage across the country.

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