

SolarMax Energy Systems

Battery Energy Storage in Spain by 2025



Overview

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.

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.

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.

How much grid-scale storage will Spain have in 2025?

As of early 2025, Spain has roughly 1 GWh of grid-scale storage under construction, according to industry sources. This new wave of funding could accelerate the build-out, enabling developers, integrators, and OEMs to expand their footprint in one of Europe's most promising emerging markets.

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.

Why should Spain invest in energy storage?

Investing in energy storage helps Spain meet its climate goals. This includes achieving carbon neutrality by 2050. Storing renewable energy instead of wasting it helps the country rely less on fossil fuels. This also cuts down greenhouse gas emissions. Pumped hydro, thermal storage, and battery systems are effective technologies.

Battery Energy Storage in Spain by 2025



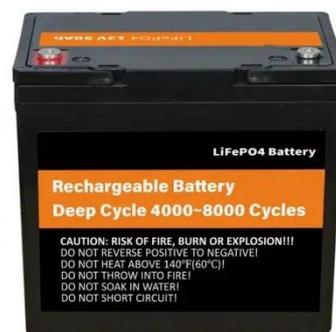
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Spain allocates EUR150m for 2.82 GWh of grid-scale, ...

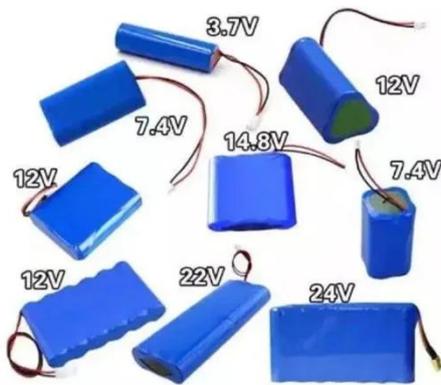
Some 35 battery sites with a total scale of 690.2 MW/2.82 GWh will receive EUR150 million under the program. A further 10 thermal storage sites ...

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Applications for 820 MW of energy storage projects ...

More than 182 MW of the battery energy storage systems (BESS) highlighted in Spain's Official State Gazette (BOE) are for hybridization with ...

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Major Breakthrough in Spain's Energy Storage Policy: Energy Storage

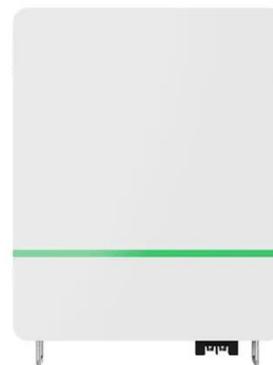
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Iberia: Why are there no batteries in Spain?

But this paradox is about to end. New market mechanisms, soaring solar buildout, and grid stability challenges are converging to unlock one of Europe's most promising battery markets.

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BW ESS and Ibersun sign joint venture to develop 2.2GW BESS in Spain



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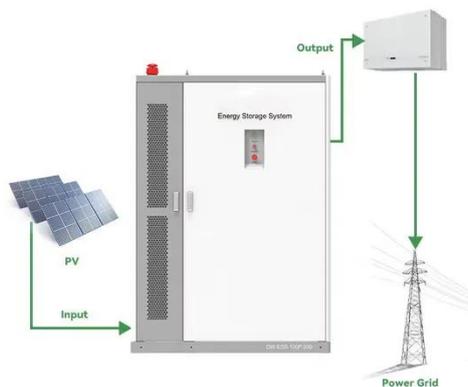
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SPAIN

Spain's battery storage market is dominated by customer-sited systems. Utility-scale storage remains nascent. Currently, Spain's storage market is mainly composed of small-scale ...

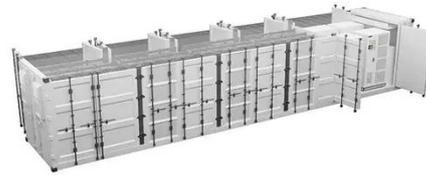
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part 4: Spain's BESS market is heating up

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