

Battery Energy Storage in Spain by 2025

Does Spain have a battery energy storage system?

Spain ranks second worldwide, after the United States, in the development of battery energy storage systems (BESS), according to EY's new Infrastructure Compass 2025 report.

Is Spain preparing for an unprecedented expansion in battery energy storage?

Spain is preparing for an unprecedented expansion in battery energy storage and now ranks as the world's second-largest market for project development, behind only the United States.

How much energy storage does Spain need in 2030?

The projected storage needs of Spain in 2030 are similar to those of the UK and Italy. In its National Energy and Climate Plan (NECP), the Spanish government aims to have 22.5 GW 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 energy storage capacity does Spain have?

When it comes to installed energy storage capacity in general, Spain is one of the leading countries within Europe (see figure 2). Currently, Spain has 6.3 GW of hydroelectric and 1 GW of thermal storage capacity installed. In fact, the non-BESS storage capacity in Spain is higher than in any other European country.

Spain's energy storage market is undergoing significant transformation. Although as of April 2025, only 60 MW of battery storage capacity had been installed, the market potential remains enormous.

Spain's battery storage program expanded to EUR840M, funding 143 projects totaling 8.9 GWh. Learn how this initiative creates opportunities for solar-storage hybrids and boosts grid ...

Spain authorizes more than 3,400 MW in energy storage, marking a rebound after the blackout and consolidating solar and battery hybridization. Energy storage has experienced an ...

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APPA Renovables reports Spain's 2025 solar self-consumption and behind-the-meter battery storage growth, highlighting a 119% surge in storage and new PV capacity, though noting the ...

Spain's Instituto para la Diversificación y Ahorro de la Energía (IDAE) has issued a provisional funding proposal for the country's first call for innovative energy storage projects, ...

In this report, we explore Spain's potential to become a hot market for battery energy storage systems.

Over 25 GW of storage project applications had been filed with Spain's grid operator by early 2025, with 9 GW already approved. That pipeline shows investor appetite is strong -- it just ...



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Spain's battery energy storage market is at a critical point. Despite being a leader in renewable energy deployment in Europe, the country has only 18 MW of standalone batteries installed, which is 300 ...

Spain experienced a significant 119% growth in battery energy storage systems linked to self-consumption in 2025, adding 339 MWh of capacity. Despite this surge, driven by energy price ...

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