

Spain's first grid-side energy storage

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 will Spain increase its energy storage capacity?

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, and battery systems.

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.

How much electricity does Spain have in 2024?

Spain had more than 1,100 hours of zero- or negatively-priced electricity in 2024: more than 45 days. Despite this, battery energy storage systems (BESS) remain rare, with grid operator Red Eléctrica de España (REE) recording just 3.36 GW of grid-connected energy storage, 3.3 GW of which was pumped hydro.

Grid operator Red Eléctrica de España (REE) will install two 25 MW/18.75 MWh batteries in what it has described as "The largest SATA [storage as transmission asset] system ...

Spain's Royal Decree 917/2025, effective Nov. 16, 2025, reorganizes grid-access priorities by recognizing storage as a flexibility resource, grants renewables top dispatch ...

Spain's EUR16bn electricity grid expansion aims to ease congestion, boost renewables, and accelerate energy storage growth by 2030.

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Spain's Ministry for the Ecological Transition and the Demographic Challenge (MITECO) has announced a major funding initiative worth EUR700 million to boost large-scale ...

Spain launches a EUR700 million energy storage program to boost renewable integration, grid reliability, and emissions reduction in support ...

Spain's EUR700M plan adds 2.5-3.5 GW of energy storage to boost renewables, cut emissions, and strengthen the grid.

Spain has chosen the 143 energy storage projects that will receive capex support from an EU-backed scheme, totalling nearly 9GWh of capacity.

Spain launches a EUR700 million energy storage program to boost renewable integration, grid reliability,

and emissions reduction in support of its 2050 net-zero goals.

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Spain Prioritizes Renewable Energy Storage for Grid Stability New regulation gives first dispatch priority to renewables paired with batteries, formalizing storage as a key tool for ...

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