



Automation technology wins bid for energy storage in port of Spain power grid

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.

What is the European Commission's new energy storage support scheme?

The European Commission approved a new support scheme. 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.

Paired with AI-driven load management, the system juggles energy like a circus performer--storing solar power by day, charging delivery trucks by night, and even feeding ...

What role may reliance on renewable energy have played? The widespread outage raises questions about the resilience of the power infrastructure in Spain and Portugal -- and to an extent, Europe.

ESSOP has explored two ways in which ports can minimize their energy costs by using energy storage: Optimising how to use PV solar generation to offset grid electricity.

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 ...

Energy storage systems in Spain are a key element in the fight against climate change, as they help us to address the challenge of the energy transition. These systems make renewable ...

The optimal solution for a port depends on multiple factors including: capacity of grid connection and cost of potential expansion of connection capacity; access to in-port renewable energy ...

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 ...



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In the cooperation with Delta PCS, the two sides are expanding and strengthening cooperation in new energy storage system level adaptation, especially the ...

The first of Spain's new renewable energy auctions is set to take place next week, as the country offers the possibility for bidders to include energy storage in their offers.

The Caceres Solar Power Plant - Thermal Energy Storage System is a 50,000kW molten salt thermal storage energy storage project located in Caceres, Valdeobispo, Extremadura, Spain.

On April 28, 2025, a rare atmospheric phenomenon caused a massive power outage across Spain and Portugal, highlighting vulnerabilities in Europe's interconnected electricity grid.

A consultation exercise has been opened into a plan to distribute European Regional Development Fund (ERDF) cash into large-scale energy storage and grid flexibility sites and into, customer-side ...

The electrification technologies discussed here in the Port Electrification Handbook--including distributed energy resources (DERs), microgrids, and electrified end uses--vary in technology ...

If sustained, Port of Spain could become the Singapore of tropical energy innovation, proving that island grids can lead rather than follow in the clean energy transition.

Spanish grid operator REE has received administrative construction authorization from the Ministry of Business, Employment and Energy for the installation of SATA batteries at the Mercadal 132 kV ...

For stand-alone power storage assets: -- Even though there is distinction between durations, projects with longer duration than 8h are all awarded the same score -- Projects with ...

As Port of Spain's mayor recently quipped: "We're not just storing electrons - we're storing economic potential." With construction set to begin in Q3 2025, this Caribbean ...

Spain's MITECO has opened consultation about the form of a capacity mechanism or capacity market which would guarantee security of electricity supply. Capacity mechanisms pay energy generation and ...

The Spanish government on Tuesday approved the 2021-2026 plan for the development of the electricity transmission network in hopes that it will enable renewables to make up for 67% of Spain's ...

EKS has expertise in working on battery storage projects "especially when it comes to very difficult grid conditions," Powin's Danny Lu said. Image: Hitachi Energy-EKS Hitachi Energy has acquired Spanish ...



Automation technology wins bid for energy storage in part of Spain power grid

To meet sustainable criteria for grid stability and reliability, the major utilities in Spain are looking into alternative storage projects, and especially pumped storage projects.

The scheme aims to deploy between 2.5 and 3.5 gigawatts (GW) of new storage capacity, enhancing the flexibility and resilience of the national power system while enabling ...

The government of Spain, through the Institution for the diversification and energy savings (IDAE) has awarded 880MW/1,809MWh in its first tender for energy storage to be co-located with ...

Picture this - cargo ships docking at sunrise while solar farms flood the grid with cheap energy. By noon, those same batteries that charged overnight now stabilize voltage fluctuations from ...

Program that seeks to promote the energy transition in Spain, specifically in the renewable energy, renewable hydrogen, and storage sectors. 6,5 MEUR for 10 Thermal Energy Storage ...

Spain's grid operator, Red Eléctrica, announced that renewable energy sources met the entire electricity demand of the country's peninsular system for the first time on April 16, 2025. This milestone ...

The target for energy storage has been increased from 20GW in the previous NECP to 22.5GW by 2030. Image: Iberdrola. Spain has increased its energy storage target by 2030 to 22.5GW in the latest ...

Ports are strategically important locations in the collection, storage, transformation, and distribution of energy. Many have undertaken a transition toward their electrification and the use of alternative energy sources.

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