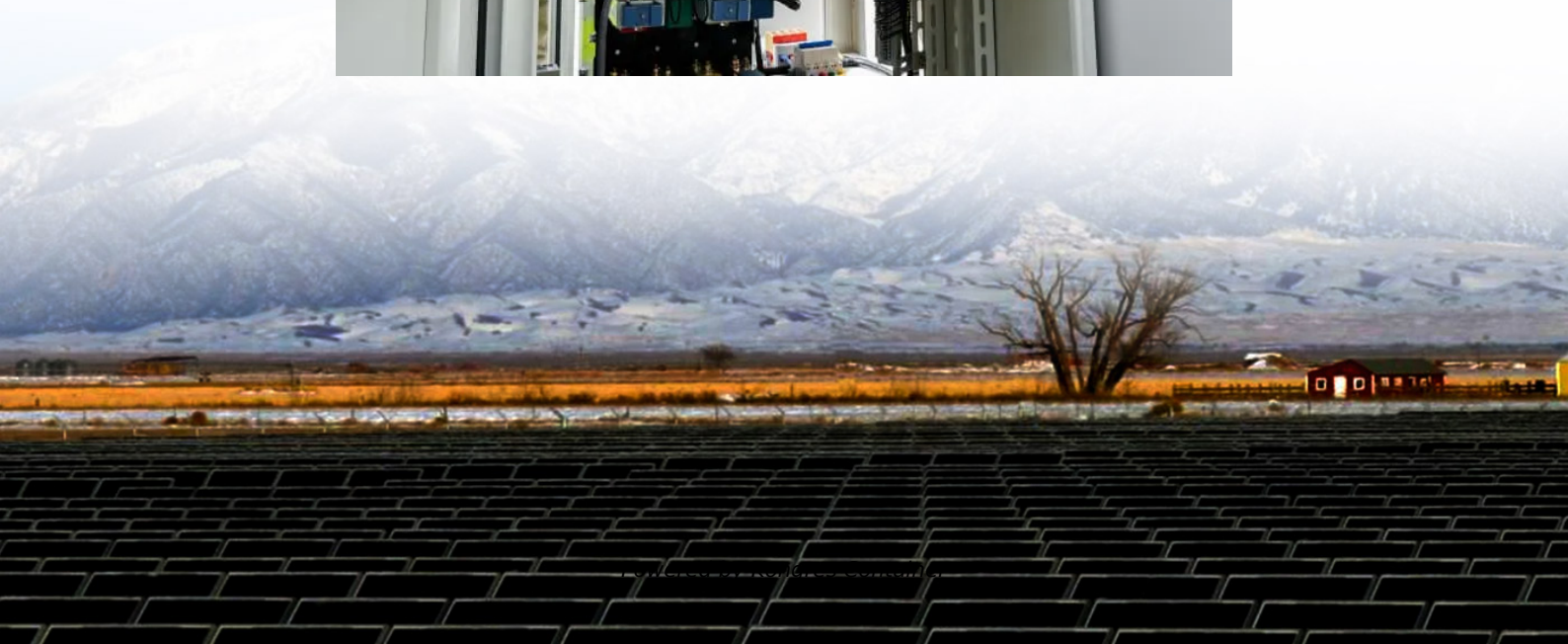


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Spain s integrated solar energy storage



Overview

On August 6, 2025, Spain's Ministry for the Ecological Transition and the Demographic Challenge (MITECO) approved €148.5 million in funding for 199 pioneering solar-plus-storage projects, firmly establishing battery energy storage systems (BESS) as a mandatory.

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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. The goal is to improve how Spain uses renewable energy.

Spain has overhauled its grid-access rules to support energy storage, granting hybrid renewables-plus-storage projects equal dispatch priority and full revenue rights for stored electricity. From ESS News Spain has formally recognized energy storage as a key technology for supporting grid.

Spain has announced a €700 million initiative to expand its energy storage capacity by 2.5 to 3.5 gigawatts (GW), aiming to improve renewable energy integration and grid stability. The program, approved by the European Commission, will support battery energy storage systems (BESS), pumped hydro.

The Spanish National Energy and Climate Plan (PNIEC) sets a target of 76 GW of photovoltaic capacity by 2030, including 19 GWac from self-consumption and 57 GWac from large-scale projects. By mid-2024, Spain's total installed photovoltaic capacity surpassed 40 GW, with approximately 3 GW of new.

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 unprecedented boost in Spain during the third quarter of 2025. According to data from the Renewable Energy Observatory.

Global energy storage capacity was estimated to have reached 36,735MW by the end of 2022 and is forecasted to grow to 353,880MW by 2030. Spain had 88MW of capacity in 2022 and this is expected to rise to 2,500MW by 2030. Listed below are the five largest energy storage projects by capacity in.

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