

PDEOZE PowerContainer

Spain s new outdoor power supply



Overview

The El Matorral solar plant will not only be capable of generating over 8 MWh of clean energy, but also features a lithium-ion energy storage system that allows more energy to be stored in less space. Is solar power a good investment in Spain?

Since he took power in 2018, energy developers have built solar parks, proved that power generation had attractive returns and pulled in capital from yield-hungry investors. In 2023 and 2024, Spain added more solar power capacity than any other European country except Germany, whose economy is more than twice its size.

What if Spain has a surplus energy supply?

Spain has limited options for the surplus energy on its hands. Exporting large volumes to the rest of Europe is unfeasible because its grid links to France are limited. So the solution to the glut is storage. Several power producers, including Rolwind, Grenergy, Sonnedix and Zelestra, are now switching their attention to batteries.

Why does Spain need a solar grid?

It wants a grid that can generate, store, and sustain energy without import gaps or guesswork. For Spain, which is already a leader in solar energy, the blackout was the push it needed to build a system without limits. Back in 2021, Spain had just over 35 GW of solar capacity. Now?

How much solar power does Spain have?

Today Spain has 36GW of total solar capacity and the government's target is to reach 76GW by 2030. Spain has limited options for the surplus energy on its hands. Exporting large volumes to the rest of Europe is unfeasible because its grid links to France are limited. So the solution to the glut is storage.

Why did Spain have a power outage in April 2025?

In April 2025, a sharp power outage hit parts of southern and central Spain — not during low supply, but at the exact moment solar output was peaking. The issue wasn't a lack of energy, but rather a lack of grid flexibility and storage. There was too much supply during the day, not enough demand, and nowhere to store the excess.

How did Spain achieve its energy goals?

Spain complemented these goals with national frameworks like the National Energy and Climate Plan (NECP), which mandated 74% renewable electricity by 2030. Public-private partnerships flourished. Companies like Iberdrola and Naturgy invested heavily in solar farms, offshore wind, and green hydrogen projects.

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