

A-Core Container

Portugal s wind solar and storage integration



Overview

Lightsource bp is planning an 867 MWp solar and 300 MWh battery energy storage system (BESS) project and Endesa's Pego Cluster would feature 360 MW of wind capacity, 330 MW of solar, and 168.6 MW/337 MWh of storage. How has Portugal adapted to its energy transition?

Portugal has made significant progress in its energy transition, focusing on increasing renewables generation and reducing carbon emissions. The country has set an ambitious goal to become carbon neutral by 2045 and has raised its renewable targets.

Does Portugal need more wind power?

The International Energy Agency recently recommended increased wind power development in the EU. It said while the bloc is on track to meet its 2030 target of 600 GW of solar PV, more effort is needed to boost wind capacity. Portugal risks becoming even more dependent on electricity imports if more wind and solar capacity are not installed.

How many offshore wind projects are there in Portugal?

The country has just one offshore wind project that started operations four years ago. The Global Wind Energy Council has reported that Portugal has 131 GW of offshore wind potential, of which 117 GW (89%) should be floating due to the conditions of the seabed off the country's Atlantic coast.

Can storage replace thermal generation in Portugal?

The pursuit of economic viability by storage facility owners will inherently lead to charging during low-cost hours and discharging during hours that are more economically attractive. Storage can replace thermal generation in constraint markets, easing the grid and supporting Portugal's 2040 phase-out target.

Are solar parks a stand-alone asset in Portugal?

This shift illustrates a broader trend in the Portuguese renewable sector: the

move from building capacity alone to ensuring stability, reliability, and smarter integration of green energy into the grid. Solar parks are no longer seen as stand-alone assets.

How much renewable electricity is produced in Portugal in 2024?

The country's renewable electricity production peaked at 4.67 TWh in March 2024 (93% of total production). In May 2024, renewables accounted for nearly 100% of electricity generation (98.4%). While weather has played a vital role in Portugal's increased renewable production, having the right balance of baseload and peak capacity is crucial.

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