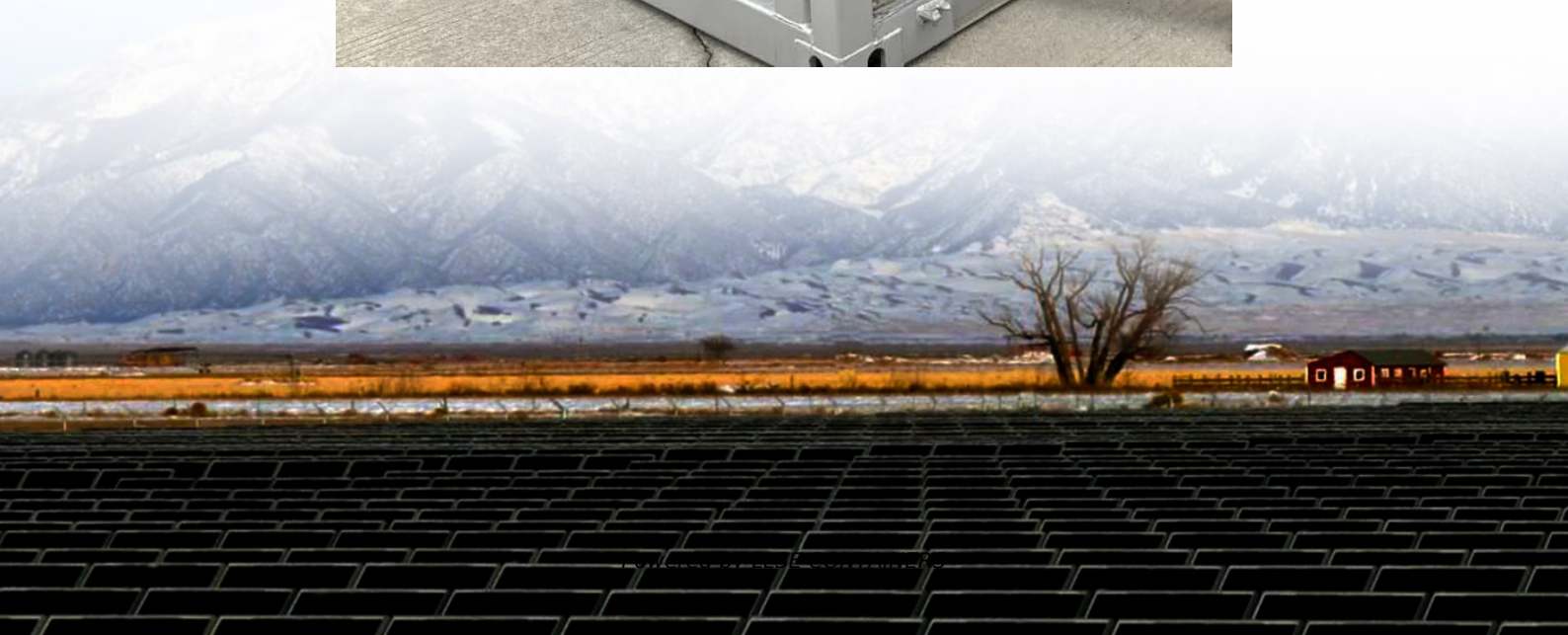


Portugal Porto solar wind power generation system





Overview

Why is wind energy important in Portugal?

Its potential is even greater Wind energy is a major source of electricity in Portugal, and the wind supply chain has a strong footprint there. Whilst offshore wind offers new perspectives, the speedy permitting and repowering of onshore wind farms remain key for the country to keep reaping the fruits of wind energy.

How much wind power does Portugal produce?

Total wind power capacity is 5,671 MW. Wind power capacity in Portugal increased by 28 MW in 2022. Portugal produces 13.27 TWh from wind energy, which accounts for 26% of the country's electricity consumption. The 2030 targets for renewable power capacity were published in the National Energy and Climate Plan (NECP) .

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.

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.



Portugal Porto solar wind power generation system



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Nov 24, 2025 · ours more than in 2023 [4]. For Portugal mainland, the Portuguese transmission system op-erator (TSO) indicated an annual wind generation index of Figure 1. Installed and ...

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