

While Portugal's revised National Energy and Climate Plan (NECP) and Long-Term Strategy for Carbon Neutrality (LTS) have raised targets for decentralised solar photovoltaic (PV) capacity, they remain below the country's solar potential.

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Portugal appears to have an exciting future as a major player in the global solar energy field, with numerous major projects already completed and several more exciting updates to come over the next decade. With the European Commission aiming for a target of 40% renewable energy consumption by 2030, the country is undoubtedly doing its fair share.

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Portugal should reach the 2030 target already in 2025 regarding energy production via renewable sources such as solar energy. According to Adene (Agency for Energy), the forecast is to reach 80% of energy produced from ...

Here is a list of the largest Portugal PV stations and solar farms. Get to know the projects' power generation capacities in MWp or MWAC, annual power output in GWh, state of location and exact location on the map, name of developer, year of connection to the electric grid, land size occupied, and other interesting facts.

Solar Power Plants in Portugal. Portugal generates solar-powered energy from 68 solar power plants across the country. In total, these solar power plants has a capacity of 589.1 MW.

On 9 October 2021, the largest solar power plant in Portugal was inaugurated in Alcoutim. With an installed capacity of 219 MW, the power plant has 661,500 solar panels and can power the needs of 200,000 homes. It occupies an area of 320 hectares and will prevent the emission of 326,000 tons of carbon dioxide every year. [5]

Portugal is intensifying its commitment to renewable energy with the announcement of new incentives aimed at promoting solar panel installations and enhancing window efficiency in residential properties.

EDP's new floating solar project is in line with regulatory changes ongoing in Portugal, that open the door to



Solar power from Portugal

the existence of photovoltaic solar auctions and hybridisation, the combination of several sources (renewable or fossil) at a single connection point to the electricity grid.

In a bold announcement, Portugal recently surpassed its entire solar output from 2023 by September 2024, celebrating a record year for solar energy production. According to REN (Rede de Energia Nacional), the country generated more than 3.99 TWh of solar energy in just the first nine months, exceeding last year's total of 3.6 TWh.

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