



Portugal solar power generation icon

Is solar power a growing source of energy in Portugal?

Solar power is a growing source in the Portuguese energy mix. At the end of 2020, solar power installed capacity totalled 1.03 GW and represented 3.6% of total power generation in 2020. Portugal has set a goal of between 8.1 GW and 9.9 GW in installed capacity by 2030.

Do you need a subscription to use solar power in Portugal?

A paid subscription is required for full access. In 2023, power generation from solar photovoltaics (PV) in Portugal was the highest throughout the summer months, peaking at 665 gigawatt-hours in July. During winter, the country's solar PV power generation dropped, recording the record low of that year in December, at only 268 gigawatt-hours.

How much energy does Portugal generate from renewables?

Portugal generated an 'historic' 95 per cent of its electricity from renewables in April, according to the network operator REN. Renewable energy generation averaged just below that for the first four months of the year, covering 91 per cent of the nation's power needs.

How much electricity does Portugal use in 2023?

Renewable generation supplied 61% of the electricity consumption in Portugal in 2023, totalling 31.2 TWh, the highest-ever recorded value in the Portuguese national system. Wind power supplied 25% of the consumption in Portugal, hydropower contributed 23%, photovoltaics accounted for 7% and biomass for 6%.

What is Portugal's energy transformation?

Portugal's transformation is more than just about energy production; it's a narrative of resilience, innovation, and community spirit. As the country forges ahead, its commitment to renewable energy serves as a powerful reminder that a brighter, greener future is possible, and it begins with each of us.

How much solar power will Portugal have by 2030?

Portugal has set a goal of between 8.1 GW and 9.9 GW in installed capacity by 2030. The Serpa solar power plant is an 11 megawatt plant covered 150 acres (0.61 km²) and employs 52,000 PV panels. The panels are raised 2 meters off the ground thus allowing grazing to continue.

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Power generation from wind and solar resources plays an essential role in Europe's transition to a decarbonised energy system. The total installed capacity, as well as the share of wind and solar power in European electricity ...

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Solar generation in mainland Portugal in real time. Actual values are provisional and are the result of remote metering and estimates made by REN. The chart includes REN's forecast for the generation from all solar power plants, ...

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