

Does Europe use much solar power



Overview

4 TWh) in June 2025, more than any other power source. This is an increase of 22% from June 2024. In second place was nuclear with 21. Solar power consists of photovoltaics (PV) and solar thermal energy in the European Union (EU). 6 billion European solar heating sectors consisted of small and medium-sized businesses, generated 17. The cost of solar power decreased by 90% between 2010-2023 . EU solar generation increased by over 20% for the fourth year running in 2025, with its share in the energy mix surpassing coal and hydro. In June 2025, solar was the largest source of EU electricity for the first time, with multiple . Total use from renewable sources across the EU has nearly reached 50%, driven by hydro and, increasingly, by solar.

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Solar power's role in Europe's energy future

Solar energy has become one of Europe's fastest-growing and most promising sources of renewable power. One of their contributors, solar photovoltaic (PV) systems, now supplies 10% of

Ranking of EU Countries by Installed Solar PV Capacity (2024)

As of 2023, the European Union (EU) boasts a total installed solar capacity of approximately 263 gigawatts (GW), making it the second-highest region in the world for solar power



[In 2025, solar and wind produced more electricity than fossil fuels in](#)

Just a decade ago, almost three times as much electricity in the European Union was coming from fossil fuels as from solar and wind. But last year, for the first time, solar and wind

Solar generates record 13% of EU electricity in 2025

EU solar generation increased by over 20% for the fourth year running in 2025, with its share in the energy mix surpassing coal and hydro. For the first time in history, solar and wind



Green electricity: Which EU



countries are using the most?

Total use from renewable sources across the EU has nearly reached 50%, driven by hydro and, increasingly, by solar.

Solar power in the European Union

Solar power consists of photovoltaics (PV) and solar thermal energy in the European Union (EU). Solar power is growing in every EU country.



Solar energy

Solar is the fastest growing energy source in the EU and is cheap, clean and flexible. The cost of solar power decreased by 90% between 2010-2023, according to the International Renewable

Solar is EU's biggest power source for the first time ever

In June 2025, solar was the largest source of EU electricity for the first time, with multiple countries producing record amounts of solar power. Wind power in the EU started the summer



Wind and solar overtake fossil fuels in EU power supply

Solar now provides more than one-fifth of electricity in countries including Hungary, Spain and the Netherlands. Europe's electricity mix is now mostly low-carbon, with renewables and nuclear

Total EU-27 Solar PV capacity: a growth story

Solar in the European Union has been traditionally dominated by rooftop applications, and the energy crisis has further pushed the market in that direction.



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