

PDEOZE PowerContainer

Solar panels power generation in the EU



Overview

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Solar power generated 22.1% of EU electricity (45.4 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 21.8% (44.7 TWh), followed by wind with 15.8% (32.4 TWh).

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Solar energy technologies convert sunlight into energy, either as electricity (photovoltaics and concentrated solar power) or in the form of solar heat. Solar is the fastest growing energy source in the EU and is cheap, clean and flexible. The cost of solar power decreased by 82% between 2010-2020.

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 strongly, with the highest ever generation for the months of May and June. Solar power generated 22.1% of EU.

Solar power consists of photovoltaics (PV) and solar thermal energy in the European Union (EU). Solar power is growing in every EU country. In 2010, the €2.6 billion European solar heating sectors consisted of small and medium-sized businesses, generated 17.3 terawatt-hours (TWh) of energy.

The cumulative installed solar PV capacity of the EU-27 Member States reached 269 GW at the end of 2023. It has multiplied over 2.500 times since the beginning of the millennium, when the grid-connected solar era began with Germany's introduction of the feed-in tariff law. Since then, the European.

In a historic milestone for clean energy, solar power became the leading source of electricity in the EU for the first time in June 2025. New data from energy think tank Ember reveals that solar accounted for 22.1% of the EU's electricity mix, surpassing nuclear and leaving fossil fuels far behind.

At least 13 EU countries set new records for solar generation in June 2025. The record-breaking performance of solar power across the EU is attributed to the continuous installation of solar panels in recent years and favourable weather conditions. Credit: VectorStockbd/Shutterstock. Solar power.

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Solar power has taken the lead in the EU's electricity generation for the first time in June, accounting for 22.1% of the EU's electricity, equivalent to 45.4 terawatt hours (TWh), according to a recent ...

Solar reached new highs in the majority of EU countries in June 2025, with at least thirteen countries recording their highest ever month of solar generation. These solar records ...

EU solar power output grew 21.7% (i.e., by 54 terawatt-hours, TWh) in 2024, expanding from 9.3% to 11.1% of total generation - a trend mostly driven by new capacity ...

As solar PV deployment ramps up across the EU, it's not just about harnessing clean energy - it's also about powering job growth. The expansion of solar installations creates a ripple effect, ...

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Under the European Green Deal and the REPowerEU plan, solar power is a building block of the EU's transition to cleaner energy. Its accelerated deployment contributes to reducing the EU's ...

Many European countries generated record levels of solar power in the first half of 2025, according to figures presented by the Fraunhofer Institute for Solar Energy Systems (ISE).

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Find the most up-to-date statistics about the solar photovoltaic industry in Europe

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