



EQACC SOLAR

# Solar Power Generation Systems in Western Europe



## Overview

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### What is Solarpower Europe?

SolarPower Europe is the award-winning link between policymakers and the solar PV value chain. Get to know the SolarPower Europe team working to transform the European energy system. Get to know everything about solar power. Interested in joining SolarPower Europe?

Become a member! If playback doesn't begin shortly, try restarting your device.

### What percentage of European electricity comes from solar energy?

In 2024, 46.9% of the electricity generated in the EU came from renewables and 22% of renewable electricity came from solar energy (Eurostat, March 2025). June 2025 was the first month in history where solar energy was the main source of electricity generated in the EU at 22%. Source: SolarPower Europe.

### Did Germany generate more solar power in the first half of 2025?

In the first half of 2025, Germany and many other European countries generated more solar power than ever before. This was offset by lower electricity generation from wind energy. As a result, the share of renewable electricity in Germany's net public electricity generation was 60.9 percent, down from 65.1 percent in the first half of 2024.

### How much solar energy does the EU generate in 2025?

June 2025 was the first month in history where solar energy was the main source of electricity generated in the EU at 22%. Source: SolarPower Europe. The EU solar generation capacity keeps increasing and reached, according to SolarPower Europe, an estimated 338 GW in 2024.

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### Spring 2025: Solar irradiation surges across Europe

Spring 2025 saw up to 50% above-average solar irradiance in Western Europe, driving record-breaking UK solar generation - up 42% year-on-year, saving £600 million in fuel ...

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### Europe's solar generation hits new high

Europe's solar generation hits new high 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 ...



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## Net Public Electricity Generation in H1 2025: ...

Within the European Union, public electricity generation from solar and wind fell from 358.1 terawatt hours (TWh) in the first half of 2024 ...

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## Solar generation on the rise in Europe in first half of 2025

Many European countries generated record levels of solar power in the first half of 2025, according to figures from Fraunhofer ISE.

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## EU Market Outlook for Solar Power 2025-2030

With decisive and coordinated action, Europe can still reverse the current negative trend, as solar and battery

storage are incredibly swift to deploy. SolarPower Europe stands ...

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## Europe's solar generation hit new heights during June ...

Sunny summer conditions delivered record photovoltaic (PV) production across much of western Europe in June 2025, as high pressure systems brought sustained clear ...

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## **Fraunhofer ISE: Solar power on the rise across Europe in the ...**

Within the European Union, public electricity generation from solar and wind fell from 358.1 gigawatt hours (GWh) in the first half of 2024 to 344.4 GWh in the first half of 2025. This ...

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## **Net Public Electricity Generation in H1 2025: Solar Power on ...**

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## **Europe's three-fold solar and wind growth sparks urgent ...**

The report, "The State of European



Power Grids: A Meta-Analysis", calls for rapid grid expansion to tackle rising connection queues, increasing congestion and limited cross-border capacity. ...

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