

Annual electricity generation from solar panels in Western Europe



Overview

The production volume of electricity from solar photovoltaic power in the European Union has been steadily increasing in the last years. In 2024, the EU's solar PV power production stood at over 296 terawatt-hours.

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[Renewable electricity - Renewables 2025 - Analysis](#)

Renewable electricity additions for 2025-2030 total 4 600 GW - equal to the combined installed power capacity of China, the European Union and Japan Globally, renewable

European Electricity Review 2024

The list of solar leaders saw a significant shift this year, with Greece emerging as the new leader, generating 19% of electricity from solar, followed by Hungary (18%) and Spain (17%).



European Electricity Review 2025 , Ember

The European Electricity Review analyses full-year electricity generation and demand data for 2024 in all EU-27 countries to understand the region's progress in transitioning from fossil

Capacity

Explore the cumulative annual electricity capacity for the EU, EU countries, Norway, UK, and Switzerland. Analyze the evolution of capacity over the years and view installed capacity by technology.



[Total EU-27 Solar PV capacity: a growth](#)



[story](#)

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, spurring

[Photovoltaic Geographical Information System \(PVGIS\)](#)

Free and open access to photovoltaic (PV) electricity generation potential for different technologies and configurations. Available in English, French, Italian, Spanish and German.



[Ranking of EU Countries by Installed Solar PV Capacity \(2024\)](#)

As grid constraints, policy changes, and financing models evolve, Europe's solar energy growth will remain robust, positioning the EU as a global leader in renewable energy.

Solar photovoltaics in Europe

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



Solar power in the European Union

Solar power, the production of electricity from solar energy, is performed either directly, through photovoltaics, or indirectly, using concentrated solar power (CSP).

[Share of electricity production from](#)

[solar](#)

Ember - Yearly Electricity Data Europe This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over European countries.



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