

Ranking of Germany in terms of solar power generation

Concentrated solar power (CSP), a solar power technology that does not use photovoltaics, has virtually no significance for Germany, as this technology demands much higher solar insolation.

Data and analysis including a list of solar power in every country in the world, countries with the most solar power, and countries that generate the highest percentage of their electricity from solar power.

This dashboard ranks countries/areas to their renewable energy power capacity or electricity generation. The data can be further refined based on region, technology or year of interest.

Across the EU, photovoltaics surpassed coal-fired power generation for the first time in 2025. Wind power was the strongest net electricity producer in Germany, although production was ...

For the first time, wind and solar power provided the largest combined share of Germany's public net electricity generation, totaling 202 TWh. Solar installations in Germany fed more than 70 TWh of ...

The Fraunhofer Institute for Solar Energy Systems (Fraunhofer ISE) reports that Germany generated 72.2 TWh of solar in Germany in 2024, accounting for 14% of total electricity generation.

According to IRENA worldwide ranking, Germany, one of the major producers of solar electricity in world, is ranked in the top five for installed solar capacity.

OverviewHistoryGovernmental policiesStatisticsCompaniesSee alsoExternal linksSolar power accounted for an estimated 15% of electricity production in Germany in 2024, up from 1.9% in 2010 and less than 0.1% in 2000. Germany has been among the world's top PV installer for several years, with total installed capacity over 100 gigawatts (GW) in 2025, up from 81.8 GW at the end of 2023. Germany's 974 watts of solar PV per capita (2023) is the third highest in the w...

Solar photovoltaics are on the list of renewable energy sources Germany would like to transition to using more. In fact, in the European Union, Germany already produced the most ...

While already leading in Europe in terms of total installed capacity, Germany also topped the ranking in terms of solar PV expansion in 2024, according to consultancy Rystad Energy.

In terms of the eight European countries with the highest solar capacities, this places Germany in seventh position ahead of Italy. The growth champion in this group is Poland, which has ...

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