

Germany's share of solar power generation



Overview

Germany produced 18% of its electricity through solar power in 2025, up from 14% in 2024, a significant leap that meant solar overtook both coal and methane gas in the country's electrical supply - despite the high latitudes the whole country sits at. In Germany, net public electricity generation from renewable energy sources reached a record share of 62.2 terawatt hours in 2024, and the expansion of photovoltaics continued to exceed the federal government's targets. Cumulative installed solar PV capacity stood at 116.8GW at the end of 2025, exceeding the 108GW target set by the . Wind power plants produced about 132 TWh in 2025 and were about 3.2 % below the production level of 2024. The share of onshore wind was about 106 TWh, and offshore wind generated about 26.

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Electricity generation in Germany in 2025

Solar installations generated around 87 TWh of electricity in 2025. Of this, approximately 71 TWh was fed into the public grid and 16.9 TWh was self-consumed. Total production increased compared to

Germany's Electricity Mix: Power Generation by Source

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



German Net Power Generation in 2024: Electricity Mix Cleaner

In Germany, net public electricity generation from renewable energy sources reached a record share of 62.7 percent in 2024. Solar power generation reached a new record of 72.2 terawatt hours in 2024,

[Germany sets clean energy record: 62.7% of electricity generated](#)

Solar energy now makes up 14% of Germany's electricity generation, with July 2024 seeing the highest solar production ever recorded. Hydropower and biomass also contributed significantly, with





Solar power in Germany

It is interesting to note that whilst large power plants receive a lot of attention in solar power articles, installations under 0.5 MW in size actually represented nearly two-thirds of the installed capacity in

Solar power in Germany - output, business & perspectives

Far from being a sun-drenched country, Germany boasts one of the world's highest solar power outputs. The country triggered the large-scale launch of the technology with guaranteed feed



Solar power overtakes coal and gas in Germany, a country

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Germany installed 16.2GW solar PV in 2025

A day later, solar energy reached its maximum share of the total daily load with 41.2%. Solar PV was not the only renewable energy source that saw a sharp increase in 2025.



Solar power in Germany

OverviewCompaniesHistoryGovernmental policiesStatisticsSee alsoExternal links

The history of Germany's installed photovoltaic capacity, its average power output, produced electricity, and its share in the overall consumed electricity, showed a steady, exponential growth for more than two decades up to about 2012. Solar PV capacity doubled on average every 18

months in this period; an annual growth rate of more than 50 per cent. Since about 2012 growth has slowed down significantly.

[Germany hits 62.7% renewables in 2024 electricity mix, with solar](#)

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.



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