

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, ...

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...

The strongest net electricity producer was wind power, followed by photovoltaics, which increased its production by 21 percent and thus overtook lignite for the first time.

Germany generated more electricity from wind and solar in 2025 than any other EU member and accounted for more than a quarter of the bloc's total wind and solar generation.

With the rise of renewables there come new challenges, at certain times, photovoltaic produce too much electricity, which poses a challenge for the power grid. Experts debate on planned ...

Though sunnier regions elsewhere have the potential to generate far more electricity, in Germany falling prices, improved technology and political support have helped drive a solar balcony ...

Known as "balkonkraftwerk" in Germany, these systems are miniaturized distributed photovoltaic systems that can be easily installed on balcony railings and plugged into household ...

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.

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 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 ...

Solar power's fast growth in recent years already has led to concerns over the electricity system's ability to absorb millions of new scattered power production facilities across the country, as ...



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