

# How much electricity does solar power generate in Germany per year

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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.

Renewables have taken over the main role in electricity generation in Germany, accounting for 254.9 terawatt hours and so almost 60% of the total amount of electricity generated in ...

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.

Fraunhofer ISE says solar panels achieve up to 980 full load hours per year in Germany, equalling about ten percent of the year - or less than half of the amount that wind power can deliver.

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 ...

In 2022, solar energy generation reached approximately 60 terawatt-hours (TWh), indicating a steady increase year-on-year, 2. The country boasts over 2.6 million photovoltaic ...

In 2022, solar power generated approximately 14% of the total electricity consumed in Germany. This translates to around 100 terawatt-hours (TWh) of clean energy, enough to power ...

Germany remains one of the global leaders for wind and solar energy deployment. Since the introduction of its landmark renewable energy law (Erneuerbare-Energien-Gesetz) in 2000, its ...

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