

What percentage of electricity is generated by renewables in Germany?

In 2023, renewables accounted for a record share of 59.7 percent of the net public net electricity generation in Germany. The share of renewables in the load (the electricity mix coming from the socket) was 57.1 percent. This is the result of an analysis presented this week by the Fraunhofer Institute for Solar Energy Systems ISE.

What are the main renewable sources in Germany?

Main renewable sources being biodiesel, bioethanol and a growing share of renewable electricity. The use of renewables has expanded significantly in Germany in recent decades. The German Environmental Agency calculates that in 2023 around 250 million tonnes of carbon dioxide equivalents were avoided through the use of renewables.

Is Germany aiming for 80 percent renewable power by 2030?

Germany is aiming for 80 percent renewable power in its gross electricity consumption by 2030, with on- and offshore wind power considered the most important sources. All texts created by the Clean Energy Wire are available under a "Creative Commons Attribution 4.0 International Licence (CC BY 4.0)".

What is the most important energy source in Germany?

With wind power being by far the most important energy source in the German electricity mix. Renewables' share for heating and cooling purposes has risen from 4.4 per cent in 2000 to 17.7 percent in 2023. Main energy source in this sector remains biomass (solid, liquid and gaseous), still providing 75 percent of all renewable heat in 2023.

What percentage of electricity is generated by renewables?

The share of renewables in net electricity generation, i.e. the electricity mix that actually comes out of the socket, was 49.6 percent and their share of the load was 50.3 percent. Only photovoltaics met the expansion targets set by the federal government, increasing its contribution to electricity generation by 19 percent.

What data do we need to evaluate Germany's energy transition?

Up-to-date and quality controlled data on the development of renewable energies in Germany are an important basis for the evaluation of Germany's energy transition. The Working Group on Renewable Energy Statistics (AGEE-Stat) provides these data for international reporting obligations as well as the interested public.

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Expected Trends (2024-2034): The trend towards renewable energy dominance is expected to continue, bolstered by Germany's ambitious target of achieving 80% of its electricity from renewables by 2030. The phase-out of coal and the cessation of nuclear power in 2023 will further accelerate the transition.

The total share of renewable energies in energy consumption (electricity, heat and transport) rose to 22 per cent in Germany in 2023. In 2022, this share was at 20.8 per cent. This positive development was the result of a growth of renewables in the electricity and heat sector while overall energy demand declined.

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Renewable power sources covered around 57 percent of Germany's gross electricity consumption in the first half of 2024, preliminary figures published by the Federal Environment Agency have shown. Generation from renewable sources reached 147 terawatt hours (TWh), rising by nine percent compared to the same period of the previous year.

At the end of 2023, installed solar capacity in Germany totalled 81.7 GW. This means that 19 GW of new capacity will be needed each year from now on to reach the target of 215 GW in 2030. Most privately operated solar installations on buildings also have a battery storage system.

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