

## SolarTech Power Solutions

# German containerized power generation prices



## Overview

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Germany's Federal Network Agency (BNetzA) published on Thursday the price ceilings for the renewable energy generation auctions that will be carried out in 2025. The values were capped at EUR 0.068 (USD 0.07) per kWh for ground-mounted solar PV systems, EUR 0.0735/kWh for onshore wind, EUR 0.09/kWh.

2024 has seen a sharp increase in negative prices across European power markets. This reflects a growing surplus of power in periods of high wind & solar output. Rapid growth in low & negative prices has important commercial implications. For example they: increase incentives for demand-side.

Imports and exports are based on the current prices on the European Energy Exchange. In addition, consumers have to pay the national taxes and levies. In Germany, around 30% of the electricity price is made up of grid charges. This refers to the cost of expanding the power grid. Taxes and levies.

The network balance provides an overview of supply and demand in the German electricity grid in 2023. Supply comprised a total net electricity generation of 482.4 terawatt hours (TWh), including 10.1 TWh from pumped and battery storage and physical flows from other countries into Germany's general.

Today, wind energy and solar PV are the cheapest sources of electricity generation in Germany and most parts of the world. 12 Since 2000, the German Renewable Energy Sources Act (EEG) has ensured relatively stable investment conditions for renewable energy producers, stimulating innovation.

Users can access and combine data on generation, consumption, wholesale prices, imports and exports, as well as balancing energy, across various time periods, with the data presented in a user-friendly format. Experts also benefit from extensive analytical tools, enabling users to track. How much does electricity cost in Germany in 2023?

Between 2013 and 2021, German household electricity prices remained relatively stable at EUR 0.28-0.32/kWh. However, by 2023, at the height of the energy crisis, prices had jumped to about EUR 0.45/kWh – a EUR 0.12/kWh increase compared to 2021.

How much does a kWh cost in Germany?

Data was collected from the suppliers operating in Germany on the prices for household customers as at 1 April 2024. There was a decrease in the average price (including VAT) to 41.59 ct/kWh (2023: 45.19 ct/kWh).

How much does wind power cost in Germany?

For onshore wind, the generation costs in Germany are currently around EUR 6 cents/kWh and for solar, around EUR 5 cents/kWh for ground-mounted projects, making them lower than any other power generation technology (see charts below). The same is true in many countries around the world.

How does Germany generate electricity?

The rest had to be generated by coal- and gas-fired power plants, and electricity imports from neighboring EU countries. The EU has a common electricity market. This means that during periods of high wind and sunshine, Germany is able to export energy, while during periods of low wind and sunshine, it increasingly has to import energy.

What are the cheapest sources of electricity in Germany?

Wind and solar energy have become the cheapest sources of electricity in Germany, driven by supportive policies like Germany's Renewable Energy Sources Act (EEG). What effect have renewables had on consumers' electricity bills?

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How did oversupply affect Germany's electricity prices?

The oversupply drove down the price of electricity on the exchanges, where prices are determined by supply and demand, and for a few hours, electricity was even available for free. In 2024, an average of 59% of Germany's electricity was generated from renewable sources. But during the winter darkness, this output is far from adequate.

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