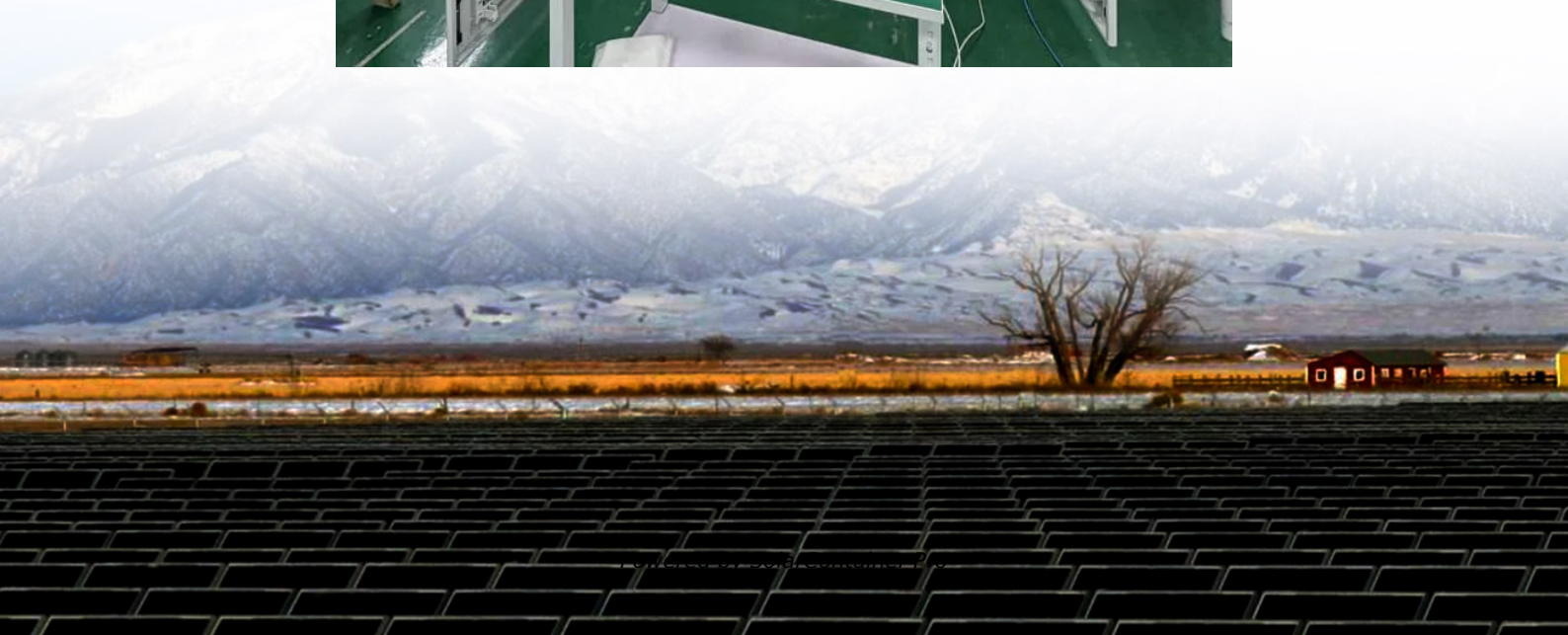


Solar photovoltaic power generation prices in Germany





Overview

The levelized cost of energy (LCOE) of solar PV in Germany currently ranges from €0.041 (\$0.049)/kWh to €0.144/kWh, according to a new report from the Fraunhofer Institute for Solar Energy Systems (Fraunhofer ISE). How much does solar energy cost in Germany?

The study also shows that the levelized cost of energy of solar-plus-storage spans from €0.06/kWh to €0.225/kWh. The levelized cost of energy (LCOE) of solar PV in Germany currently ranges from €0.041 (\$0.049)/kWh to €0.144/kWh, according to a new report from the Fraunhofer Institute for Solar Energy Systems (Fraunhofer ISE).

What percentage of electricity is generated by photovoltaics in Germany?

With an electricity generation of 72.6 TWh in 2024, photovoltaics covered nearly 14 per-cent of gross electricity consumption [AGEE] in Germany (Figure 3). All renewable energies (RE) together came to 53 percent. Figure 3: Development of the share of renewable energies in gross electricity consumption in Germany [ISE4], Status 12.03.2025 [AGEE].

Is solar power causing negative pricing in Germany?

According to official figures, PV accounted for around 15% of public net electricity generation in Germany. The growing penetration of solar power has led to an increase in negative pricing. In 2024, 457 hours of negative pricing were recorded, the majority coinciding with PV generation hours.

Are solar photovoltaics a good investment in Germany?

Solar photovoltaic systems could be a significant contributor, though their success also relies on long-term weather conditions. Discover all statistics and data on Solar photovoltaics in Germany now on [statista.com](https://www.statista.com)!

How much does a PV system cost in Germany?

Until now, under Germany's EEG renewables act, PV system owners have still



been compensated during times of negative pricing, receiving a guaranteed feed-in tariff of €8.03 cents/kWh (US\$8.41 cents/kWh) and, since February, €7.94 cents/kWh for plants up to 10kWp.

Is Germany still a leader in solar energy?

The German PV sector, with its material producers, mechanical engineering, component manufacturers, R&D facilities, and teaching, still occupies a leading position worldwide despite the slow-down in national expansion. An energy system converted to renewables is based, among other things, on approx. 300–450 GW of installed PV capacity.



Solar photovoltaic power generation prices in Germany



[Solar power in Germany: PPAs instead of feed-in tariffs](#)

Güglingen, 20 February 2025 - Recently, the German Bundestag and Bundesrat passed the so-called "Solar Peak Act (Solarspitzenengesetz)" and thus important energy reforms, including the ...

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Germany has solar LCOE ranging from EUR0.041/kWh to EUR0.144/kWh

The levelized cost of energy (LCOE) of solar PV in Germany currently ranges from EUR0.041 (\$0.049)/kWh to EUR0.144/kWh, according to a new report from the Fraunhofer Institute ...

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[German Consumers Face Negative Electricity Prices](#)

German end consumers recently experienced negative electricity prices for the first time in 2024, with rates briefly dipping to minus 25.03 U.S. cents per kilowatt-hour (kWh) ...

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In Germany, the electricity production costs of solar systems are

The report highlights that solar photovoltaic (PV) systems now offer a levelized cost of energy (LCOE) ranging from EUR0.041 (\$0.049) to



EUR0.144 per kWh, making it highly ...

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Solar power in Germany - output, business & perspectives

Energy market analysts have said they expect Germany's solar power boom to cut power prices significantly in the next years, possibly also leading to an increased incidence of ...

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Public Electricity Generation 2023: Renewable Energies cover the

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 ...

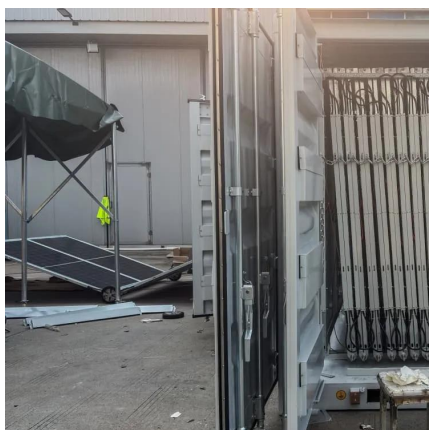
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Germany passes law to curb PV generation surpluses and ...

According to official figures, PV accounted for around 15% of public net electricity generation in Germany. The growing penetration of solar power has led to an increase in ...

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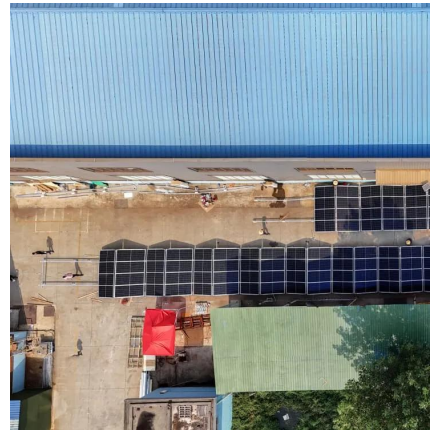




[Recent Facts about Photovoltaics in Germany](#)

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