

# **Average wind solar storage price per 100MW in Germany**





## Overview

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Platts has launched an “interactive explorer” tool that shows the capture price received by wind and solar power assets, using hourly production and monthly average price data for Spain, Germany, Italy, France, and the United Kingdom. Image: Maxim Grama y Andreas Franke, S&P Global Commodity.

The following data is gathered in the German PV Price Monitoring: Split of turn key costs of < 30 kWp rooftop systems in different cost components. EuPD Research gathers price data for solar battery storage systems on a semi-annual basis. The German Solar Battery Storage Price Monitoring summarizes.

The highest PV Solar price spreads were between the weather stations of Zugspitze (221.42€/MWh) and Schleswig (232.03€/MWh) with global irradiance values of 1705.57 kW/m<sup>2</sup> and 1371.88 kW/m<sup>2</sup> respectively. For Onshore wind, the biggest spread was seen between the weather stations of Strucklahnungshörn.

Oslo, April 2024: Power purchase agreement (PPA) prices for onshore wind can vary by over EUR 9/MWh between Germany’s north and south, depending on the geographical location. German onshore wind plants in the north could see over EUR 8/MWh higher capture cost compared to projects in the south.

According to the International Renewable Energy Agency (IRENA), the global average costs of onshore wind power and solar are now USD 3.3 cents/kWh and USD 4.4 cents/kWh, respectively. Countries with prime wind and solar conditions, such as Morocco, Chile and the United Arab Emirates, are developing.



In 2023, the day-ahead electricity price was zero or less for 260 hours, in 2024, it was already 440 hours by October. Without the German Renewable Energy Sources Act (EEG), the phenomenon of negative electricity prices would probably only interest a handful of electricity market experts. However. 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 much does wind and solar cost?

According to the International Renewable Energy Agency (IRENA), the global average costs of onshore wind power and solar are now USD 3.3 cents/kWh and USD 4.4 cents/kWh, respectively. Countries with prime wind and solar conditions, such as Morocco, Chile and the United Arab Emirates, are developing projects at even lower costs.

What is the German solar battery storage price monitoring?

The German Solar Battery Storage Price Monitoring summarizes price data of the most important battery storage market segments. To that end, EuPD Research interviews 80 solar installation companies and summarizes developments in a price index. In addition, the following data is gathered in the German Solar Battery Storage Price Monitoring:.

Are wind PPAs more expensive than solar?

On average, wind PPAs are forecast to reach higher prices than solar across Europe. For a 10 year pay-as-produced standard PPA starting in 2025, wind prices are expected to be the lowest in countries such as Spain, Norway, Ireland, the Netherlands, and Sweden, all with an average forecast price below Log in or register to access precise data.

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.

What data is gathered in the German PV price monitoring?



The data stems from interviews with solar installation companies and an evaluation of offers made to end consumers on online portals. The following data is gathered in the German PV Price Monitoring: Split of turn key costs of < 30 kWp rooftop systems in different cost components.



## Average wind solar storage price per 100MW in Germany

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### Germany picks 587 MW of solar-plus-storage projects in tender

The successful bids ranged between EUR 0.0674 per kWh and EUR 0.0745 per kWh, which is below the maximum value of EUR 0.0918 and the volume-weighted average ...

### [European electricity prices and costs](#)

This data tool compares European electricity prices, carbon prices and the cost of generating electricity using fossil fuels and renewables. Where possible, data is provided by country.



### Germany picks 1.57 GW of wind, solar, storage projects in recent

Germany awarded 620 MW of solar and 691 MW of wind projects in its latest tender, along with 258 MW of solar-plus-storage in a call for innovative technologies, the ...



### [New interactive map of renewable energy capture ...](#)

The tool displays the capture price received by wind and solar power assets using hourly production and monthly average price data for



Spain, Germany, Italy, France, and the United



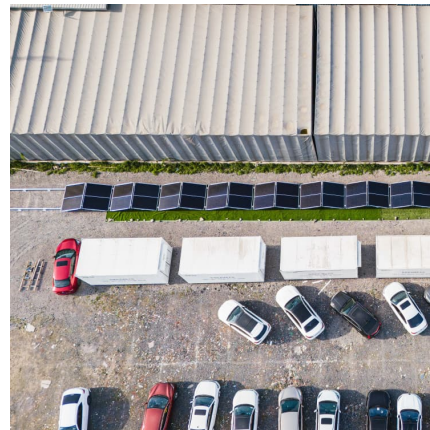
### [Germany Awards 587 MW Solar with Storage Projects ...](#)

Germany's latest innovation tender for 583 MW of renewable energy projects was oversubscribed by 218%, with bids totaling 1,856 MW, according to data released by the federal network agency Bundesnetzagentur. ...



### ? Electricity prices in Germany

Electricity prices in Germany have been a topic of significant interest in recent years, due to the country's transition towards a renewable energy system and the fluctuating ...



### **BESS in Germany 2025 and Beyond:**

Germany's Energiewende Strategy has driven exponential growth in renewable energy capacity, especially wind and solar, with plans to double onshore wind capacity to 115 GW, expand ...



### [Recent Facts about Photovoltaics in Germany](#)

The electricity price for private households in Germany is about 50 percent higher than the European average (source: stromreport , reference year 2020), but the purchasing power ...



### [Costs of Renewables in Germany . Agora Energiewende](#)

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 ...

### [Solar Installed System Cost Analysis . Solar Market ...](#)

Solar Installed System Cost Analysis NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has ...



### **Cost of capital for utility-scale solar PV and storage projects ...**

The cost of capital for solar PV projects represent responses for a 100 megawatt (MW) project and for utility-scale batteries a 40 MW project. Values represent average medians across ...



### Global Renewable Energy M& A Report

The aim of this report is to provide an in-depth look at the evolution of asset transactions in 2023, particularly for solar and wind projects. While the competition for renewable energy M& A deals ...



### Cost per mw of solar power

Of course, solar farms operate on a scale that is several orders of magnitude greater, which allows them to drive down per-unit costs through economies of scale. Types of utility-scale ...

### Solar with battery in Germany now cheaper than conventional power

Ground-mounted solar PV and onshore wind energy are the most cost-effective technologies among all types of new power plants in Germany, with levelised cost of electricity ...





### [The German PV and Battery Storage Market](#)

The German PV and Battery Storage Market The first of its kind, this study offers an overview of the photovoltaics and battery storage market in Germany. It provides the latest statistics on the PV market and battery storage systems, ...

### **Report 2021 Germany**

With the so-called "Easter Package", the Federal Ministry for Economic Affairs and Climate Action (BMWK) reforms several important laws to massively speed up the expansion of renewable ...



### [Wind energy in Europe: 2024 Statistics and the ...](#)

Europe installed 16.4 GW of new wind power capacity in 2024. The EU-27 installed 12.9 GW of this. 84% of the new wind capacity built in Europe last year was onshore. 2.6 GW of new offshore wind power capacity was ...

### [BEES in Great Britain: Ten key trends in 2024](#)

Solar & Storage Live 2024 took place between September 24th and 26th at the NEC in Birmingham. On day two, Modo's GB Markets Lead Wendel discussed the current key trends for battery energy storage in Great Britain.



### Germany Awards 488 MW Solar Plus Storage Projects in ...

Germany's Federal Network Agency (Bundesnetzagentur) has awarded 488 MW of solar plus storage capacity in the latest round of its innovation tender for renewable energy ...



### German Battery Storage on a Rise: Legislative Changes

High and further increasing volatility of power prices due to the expansion of renewables on the one hand and significantly decreasing prices for battery cells in recent years ...



### Synertics

The PPA market in Germany has experienced substantial growth, particularly for solar and wind power, with an increasing number of corporate buyers seeking long-term contracts to meet their sustainability goals. From ...





[\(2025\) PPA Price Trends Q3 2023: A Deep Dive Into ...](#)

We also should expect new price structures to emerge as Wind and Solar generation slowly moving to battery integration solutions and smart market price risk management technologies.



[Market prices of renewable energy and the status of ...](#)

As a result, there are more and more hours each year when wind and solar power plants receive money from the EEG even though their electricity is not needed. Ten years ago, this already cost tens of millions of euros, and now that figure ...

[The German PV and Battery Storage Market](#)

The German PV and Battery Storage Market The first of its kind, this study offers an overview of the photovoltaics and battery storage market in Germany. It provides the latest statistics on the ...



[Construction cost data for electric generators](#)

Average construction cost is based on the nameplate capacity weighted average cost per kilowatt of installed nameplate capacity. Total capacity is the sum of the nameplate ...



[European PPA prices rise to EUR0.1078/kWh](#)

In Germany, for example, prices are now below EUR500/MWh. However, as a consequence, 10-year PPAs for solar, onshore wind and offshore wind technology have doubled in price this year to an average



[PV Solar and Onshore Wind capture prices in Germany](#)

The average German day-ahead baseload price fell to EUR 95.18/MWh in 2023 compared to EUR 235.45/MWh in 2022. Additionally, Germany experienced a record 301 hours with ...



[Utility-Scale PV , Electricity , 2024 , ATB , NREL](#)

Units using capacity above represent kWAC. 2024 ATB data for utility-scale solar photovoltaics (PV) are shown above, with a base year of 2022. The Base Year estimates rely on modeled capital expenditures (CAPEX) and operation and ...





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