

# Number of solar power generation systems in Germany



## Overview

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Number of solar arrays installed: 5 million (April 2025) Total capacity installed: 104 GWp (April 2025) Newly added capacity in 2024: ca. 17 GWp Projected expansion: 215 GWp (2030) Output: 74 TWh (2024) Share in gross power production: 15 % (2024) Employment: 84,100 (2022 est. ). Germany is leaving the fossil-nuclear age behind, paving the way for photovoltaics (PV) to play a central role in a future shaped by sustainable power production. This compilation of current facts, figures and findings is regularly updated. It aims to help create an overall assessment of the. Solar power accounted for an estimated 15% of electricity production in Germany in 2024, up from 1. The country triggered the large-scale launch of the technology with guaranteed feed-in tariffs in the year 2000, propelling its companies to global leadership. This summary consists of the most.

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### Germany Solar Off Grid Power Generation System Market Market

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The Germany Solar Off-Grid Power Generation System market is experiencing a nuanced evolution driven by increasing energy access needs in remote and underserved regions, alongside a ...

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### Solar photovoltaics in Germany

Discover all statistics and data on Solar photovoltaics in Germany now on [statista](#) !



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### Recent Facts about Photovoltaics in Germany

This summary consists of the most recent facts, figures and findings and shall assist in forming an overall assessment of the photovoltaic expansion in Germany.



## Recent Facts about Photovoltaics in Germany

With the deployment of approx. 16.9 GWp in 2024, the total number of systems is now over 4.8 million (including plug-in solar units) with a total capacity of approximately 100 GWp [BSW].



### Utility-Scale ESS solutions



### Solar power in Germany

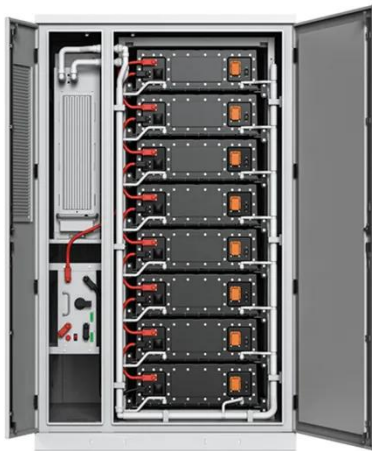
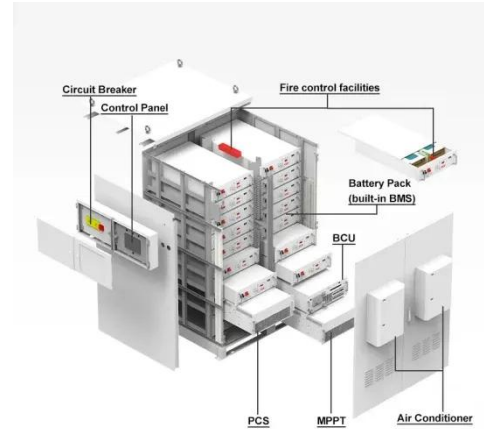
OverviewHistoryGovernmental policiesStatisticsCompaniesSee alsoExternal links

During the Reagan administration in the United States, oil prices decreased and the US removed most of its policies that supported its solar industry. Government subsidies were higher in Germany (as well as Japan), which prompted the solar industry supply chain to begin moving from the US to those countries. Germany was one of the first countries to deploy grid-scale PV power. In 2004, Germany was the first country, together with Japan, to reach 1 GW of cumulative installed PV capacity. Since 2004 solar pow...

### Photovoltaics: number of systems grows by almost 30 ...

3.4 million PV systems were installed in Germany in April, 30 percent more than in the previous year. Not including

balcony power plants.



### Germany sees 30% increase in PV units, achieves record solar share ...

By April 2024, the number of PV systems reached 3.4 million, nearly 30 percent more than the 2.7 million installed at the same time one year ago, according to the German Federal ...

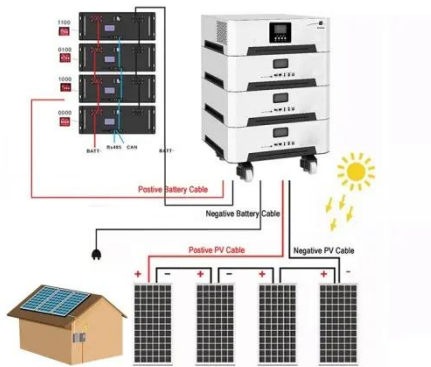
### Solar power in Germany

Since 2004 solar power in Germany has been growing considerably due to the country's feed-in tariffs for renewable energy, which were introduced by the German Renewable Energy Sources Act, and ...



### More than 1 million PV systems account for over 14 gigawatts of new ...

More than one million new solar power systems with an output of around 14 GW were installed in Germany last year,



more than twice the number of new PV and storage systems as were ...

## State of the Energy Transition in Germany: Annual Review 2025

Power generation 2025 Renewable power generation rose by around 2 percent, covering 55.3 percent of electricity demand in 2025. The main drivers were strong photovoltaic expansion and ...



## Solar power in Germany - output, business & perspectives

The German solar industry reached a milestone at the start of the year, as the total capacity of all installed solar power systems surpassed 100 gigawatts (GW), according industry association BSW ...

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