



# Annual statistics of solar power generation



## Overview

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this document. In our latest Short-Term Energy Outlook (STEO), we expect U. 6% in 2027, when it reaches an annual total of 4,423 BkWh. Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2. Renewable energy statistics 2025 provides datasets on power-generation. In this article, with the help of charts and key statistical data, we reveal the latest solar power statistics that demonstrate how the industry has grown so far, and the outlook and potential for the future. Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity.



## Article Content

### Global Electricity Review 2025 | Ember

Solar generation has doubled over the last three years to reach over 2000 TWh. Solar was the largest source of new electricity generation globally for the third year in a row (+474 TWh) and ...

### Spring 2025 Solar Industry Update

In 2024, solar represented 13.7% of net summer capacity and 6.9% of annual generation. EIA projects that PV's growth in 2023 (27 GWac) and 2024 (36 GWac) will continue in ...

### Renewable energy statistics 2025

Data was obtained from various sources, including an IRENA questionnaire, official national statistics, industry association reports, consultant reports and news articles.

### Solar Market Insight Report 2024 Year in Review

All solar segments set annual installation records except for residential solar, which experienced its lowest year of new capacity since 2021. The factors driving installation growth in ...

### Solar power generation, 2025

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find ...

### Solar power generation drives electricity generation growth over the ...

In our latest Short-Term Energy Outlook (STEO), we expect U.S. electricity generation will grow by 1.1% in 2026 and by 2.6% in 2027, when it reaches an annual total of 4,423 BkWh.

### 35 Latest Solar Power Statistics, Charts & Data

Key FactsGlobal Solar Energy StatisticsSolar Power Statistics by CountrySolar Energy vs Fossil FuelsUs Solar Panel StatisticsSolar Energy Industry & Job StatisticsOutlook: The Future of Solar PowerThe Final WordData Sources The world currently has a cumulative solar energy capacity of 850.2 GW(gigawatts).4.4%of our global energy comes from solar power inagenerates more solar energy than any other country, with a current capacity of 308.5 GW.The US relies on solar for 3.9%of its energy, although this share is increasing rapidly every year.See more on theroundup Published: Feb 11, 2022

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Growth in utility-scale and distributed solar PV more than doubles, representing  
nearly 80% of worldwide renewable electricity capacity expansion. Low module ...

Solar PV

Find up-to-date statistics and facts on the global solar photovoltaic industry.

Solar industry statistics 2026

This article compiles U.S. solar industry statistics, covering capacity generation,  
installed megawatts, employment figures and future projections.

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