

# Solar power generation rankings

**FLEXIBLE SETTING OF  
MULTIPLE WORKING MODES**



## Overview

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The top five countries are China, United States, India, Japan, and Germany, based on solar power generation and installed capacity. A report from the National Renewable Energy Laboratory found that solar power accounted for 54% of new U. electricity generation capacity in 2023, with 22 states generating more than 5% of their electricity from solar, led by California at 28. The following table lists these data for each country: Total generation from solar in terawatt-hours. In 2025, solar power is the cornerstone. This graphic visualizes the top 15 countries by cumulative megawatts of installed photovoltaic (PV) and concentrated solar power (CSP) as of 2023. All market data is current through Q3 2025. Texas has the fastest growing.

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### ESS



### Solar State By State - SEIA

California leads as the top solar state. With over 54 GW of solar installed, enough energy to power over 15 million homes. Texas has the fastest growing solar economy with the largest utility-scale solar and ...

### The Best Solar Power Countries in the World Will Shock You

In terms of cumulatively installed solar power capacity in 2024, the best solar PV market in the world was the Netherlands, with Australia and Germany getting silver and bronze.



### Solar Power by Country 2026

Data and analysis including a list of solar power in every country in the world, countries with the most solar power, and countries that generate the highest percentage of their electricity from solar power.

## Solar Energy Generation by State Report February 2026

The following table ranks the best and worst states for solar energy production (shown in thousand megawatt-hours) in October and November, number 1 represents the best state for solar ...



## Country Rankings

This dashboard ranks countries/areas to their renewable energy power capacity or electricity generation. The data can be further refined based on region, technology or year of interest.

## Solar Capacity by State 2026

This report summarizes the latest statistics on solar power capacity by state and highlights the top U.S. states in solar power generation.



## Ranked: The 15 Countries With the Most Solar Power Installed

Solar energy capacity is growing rapidly, driving the global transition to renewable energy. This graphic visualizes the top

15 countries by cumulative megawatts of installed ...



## Solar power by country

The worldwide growth of photovoltaics is extremely dynamic and varies strongly by country. In April 2022, the total global solar power capacity reached 1 TW, increasing to 2 TW in 2024. The top ...



## Top Solar Power Countries in 2025: Leading the Global Renewable

Explore the top solar power countries in 2025, including China, the U.S., India, Japan, and Germany, plus emerging leaders like Brazil and Australia, driving the global shift to sustainable ...

## Which countries use the most solar energy? [Top 13, ...

Our rundown of the countries around the world using the most solar energy, from

Mexico to China



## Solar power by country



Overview  
Global use  
figures  
Africa  
Asia  
Europe  
North America  
Oceania  
South America

Many countries and territories have installed significant solar power capacity into their electrical grids to supplement or provide an alternative to conventional energy sources. Solar power plants use one of two technologies: o Photovoltaic (PV) systems use solar panels, either on rooftops or in ground-mounted solar farms, converting sunlight directly into electric power.

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