



Solar power generation panel usage ranking





Overview

This graphic visualizes the top 15 countries by cumulative megawatts of installed photovoltaic (PV) and concentrated solar power (CSP) as of 2023. 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. Concentrated solar power (CSP, also known as "concentrated solar thermal") plants use solar thermal. Solar power is the fastest-growing renewable energy source in the world. Ranking 2nd in the nation, Texas has 48.



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[Ranked: The 15 Countries With the Most Solar Power Installed](#)

See which countries have installed the most solar power, and which ones have the fastest annual growth rates over the last decade.

[What percent of the world uses solar energy? 2026](#)

The table below summarizes the countries with the most solar energy consumption in 2022. Note the annual primary energy consumption from solar, which evaluates a country's total ...



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 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 50 Countries That Use the Most Solar Power as a Percentage of ...](#)

Data from BP's Statistical Review of World Energy 2022 and the International Energy Agency's solar energy statistics reveal the countries that are at the forefront of global solar power capacity and ...



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.



[Which countries use the most solar energy? \[Top 13, 2026\]](#)

China dominates the solar energy sector, producing 77.8% of the world's solar panels and possessing 393GW of solar capacity in 2022. According to the International Energy Agency (IEA), ...



[Where is Solar Power Used the Most in 2024?](#)



See which countries have installed the most solar power, and which ones have the fastest annual growth rates over the last decade.



[Capacity and Generation by State , Energy Markets & Planning](#)

Data from 2007 through 2024. Source: Berkeley Lab, Utility-Scale Solar Data Update 2025. Copyright (c) 2025, The Regents of the University of California, through Lawrence Berkeley National Laboratory ...

[Where is Solar Power Used the Most in 2024?](#)

Generation numbers estimated based on 2022 production ratios from IRENA. Population numbers for the same point in time sourced from the World Bank. China leads the world in solar power ...



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 ...

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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