

Solar power generation rankings in China and the US



Overview

As of 2023, China has the largest solar energy capacity in the world at 609,921 megawatts (MW), contributing approximately 3% to the country's total electricity production. It is followed by the United States at 139,205 MW and Japan at 89,077 MW. A report from the National Renewable Energy Laboratory found that solar power accounted for 54% of new U. Solar energy is typically harnessed using either. Solar power has exploded globally in the past decade, and the U. and China are two of the biggest players. But how do they really compare?

From installed capacity and manufacturing dominance to government support and market share, this deep dive breaks it all down — backed by up-to-date data and. China's cumulative installed solar capacity is very large: in 2023 it reached ~ 610 GW (gigawatts). By 2024, China's capacity was reported as ~ 888 GW. Emerging leaders include Brazil, Australia, and Spain, each advancing solar rapidly through innovative policies and investment. 5 % of global electricity, a total of 1, 631 terawatt-hours.

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China miles ahead of the US in clean energy race

The U.S. added 33 GW of solar and 12 GW of wind capacity, far behind China's scale. The IEA projects that the U.S. will remain the second-largest contributor to renewable energy ...

Chart: Which 10 countries generated the most solar... , Canary Media

Chart: Which 10 countries generated the most solar power in 2023? China was the top solar power producer last year, but it's not the only nation that saw a big leap in solar production.



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 ...



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.



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.

Electricity Generation Trends in China and the US

China's wind and solar generation hit a new record share of 18% (1,826 TWh) in 2024, remaining above the global average of 15% and overtaking the US for the first time. China's clean ...



China's energy dominance in three charts

China is the dominant force in next-generation energy technologies today. It's pouring hundreds of billions of dollars

into putting renewable sources like wind and solar on its grid,



Installed solar energy capacity

Total renewable capacity (on-grid and off-grid)
Hydropower Renewable
hydropower (including mixed plants)
Pumped storage (note that this is included in total hydropower capacity, but ...



Solar power development

The US is making strong progress in solar, but compared to China the scale is still much smaller. China's combination of large domestic demand, manufacturing scale, supportive policies, ...

China vs. the U.S.: Who's Really Leading the Solar Power Race?

For solar investors, China's influence will shape global pricing, supply chains, and

innovation. But for those betting on U.S. growth, this moment -- with unprecedented federal backing ...



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