

Solar power generation ranks first in the world

Which countries use the most solar energy?

Our rundown of the countries around the world using the most solar energy, from Mexico to China. What kind of home do you live in? China consumes more solar energy than any other country, by far. The nation used 32.3% of the world's solar energy in 2022 - more than double the US's 15.6%.

Which countries are leading the solar energy transition?

Overall, the Asia Pacific region is leading the solar energy transition, with six countries in this region: China, Japan, India, Australia, South Korea, and Vietnam, ranking among the top 15. Asian countries are making a concerted effort to transition to renewable energies, given their high energy demand and heavy reliance on coal for energy.

Is solar energy a first step towards developing solar energy?

Through a detailed and systematic literature survey, the present review study summarizes the world solar energy status, including concentrating solar power and solar PV power, along with published solar energy potential assessment articles for 235 countries and territories as the first step toward developing solar energy in these regions.

Which countries contribute the most to solar PV development?

3. Solar PV energy 3.1. Solar PV installed capacity The global installed solar PV capacity over the past ten years and the contributions of the top fourteen countries are presented in Table 3, Table 4 (IRENA, 2023). Europe was the leading contributor to global solar PV projects in the early years of solar PV development.

Australia ranks highest in terms of solar generation per person (1,866kWh), while China has, by far, the biggest fleet of solar panels on the planet (887GW as of end-2024). Meanwhile, solar ...

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. [Home](#) & [Data](#) & [View](#) ...

The world generated 2,109.76TWh of electricity from solar in the first nine months of the year, a 31% increase over the same period in 2025.

Here's an overview of the top five nations leading in deployment of solar energy based on statistics by International Renewable Energy Agency (IRENA).

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Which countries have the most wind and solar power? Australia, like many countries around the world, is relying mostly on a combination of wind, solar and storage (like batteries and ...

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The world is dealing with the effects of climate change and dwindling natural resources. And as a result, the focus on renewable energy sources has increased. Many countries have made ...

World installed 380 GW of new solar capacity in first six months of 2025 Global solar installations are on track for another record year. In the first six months of 2025, the world added 380 ...

Electricity generation from solar, measured in terawatt-hours.

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 ...

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