

# International ranking of solar power generation

Which country has the most solar power in 2022?

In 2022, the leading country for solar power was China, with about 390 GW, accounting for nearly two-fifths of the total global installed solar capacity.

Which country has the most solar power in the world?

Spain deployed about 350 MW (+18%) of concentrated solar power (CSP) in 2013, and remains a worldwide leader of this technology. European countries still account for about 60 percent of worldwide deployed capacity of solar power in 2013. Austria had 421.7 MW of photovoltaics at the end of 2012, 234.5 MW of which was installed that year.

What percentage of global electricity generation is renewable?

In 2028, renewable energy sources account for over 42% of global electricity generation, with the share of wind and solar PV doubling to 25%. IEA. Licence: CC BY 4.0 China accounts for almost 60% of new renewable capacity expected to become operational globally by 2028.

What is the largest source of electricity generation in 2025?

In 2025, renewables surpass coal to become the largest source of electricity generation. Wind and solar PV each surpass nuclear electricity generation in 2025 and 2026 respectively. In 2028, renewable energy sources account for over 42% of global electricity generation, with the share of wind and solar PV doubling to 25%.

Which country produces the most solar energy in 2023?

In 2023, China was the country with the largest energy production from solar, with some 584 terawatt hours. The United States ranked second by a wide margin, with less than half of China's production. India and Japan were third and fourth in the ranking, respectively. Get notified via email when this statistic is updated. \*For commercial use only

How much solar energy will China generate by 2040?

Given the country's geographic location advantage and the high potential for generating electricity from solar energy, its generation capacity is expected to increase from the current 1.2% of the total 23 GW to at least 3.5% of the total 43 GW generating capacity by 2040.

Only 32 countries in the world have geothermal power plants in operation, with a combined capacity of 16,318 MW installed in 198 geothermal fields with 673 individual power ...

The solar power (PV+CSP) accounted for nearly 8% of the renewable electricity production. ... making it the second most prominent generation source behind wind power, and ...

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India ranks fifth globally in installed power capacity, with 73 gigawatts (GW) of solar power capacity. Global solar generation in 2023 was more than six times larger than in ...

In addition to LCOE, we present a set of other socio-economic indicators to show the solar power generation potential in the context of economic, human, and social development. ... On the opposite side of the ranking, 30 countries ...

Globally, solar power generation accelerated sixfold between 2015 and 2023, with India witnessing a seventeen-fold increase in solar generation capacity during the same ...

Solar power's global share in power generation stood at about 4.5 percent in 2022, according to the International Energy Agency (IEA). Solar arrays can contribute a much greater share to the ...

Government of India documents the immense potential (748.99 Gwp) of solar energy (Table 1) and trying to boost the solar power capacity to achieve the target of 100 GW ...

Renewable energy statistics 2024 provides datasets on power-generation capacity for 2014-2023, actual power generation for 2014-2022 and renewable energy balances for over 150 countries and areas for 2021-2022.

China is cementing its position as the global leader in renewables development with 180 GW of utility-scale solar and 159 GW of wind power already under construction<sup>1</sup>. The total of the two is nearly twice as ...

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Projected Costs of Generating Electricity - 2020 Edition is the ninth report in the series on the levelised costs of generating electricity (LCOE) produced jointly every five years ...

The country ended 2022 with 24 gigawatts (GW) of solar PV operating power and took, for the first time, eighth place in the international ranking. The data consider the sum of large-scale solar PV plants with small ...

China, Japan, and South Korea have continued to promote the development of solar power in recent years. According to the National Energy Administration of China (2022), ...

Globally, India has emerged as a significant player in renewable energy, ranking fourth in total renewable power capacity additions and fifth in solar power capacity. From 2014 ...

The International Renewable Energy Agency (IRENA) produces comprehensive, reliable datasets on

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renewable energy capacity and use worldwide. Renewable energy statistics 2024 provides datasets on power-generation capacity for ...

The new renewable capacity added since 2000 is estimated to have reduced electricity sector fuel costs in 2023 by at least USD 409 billion, showcasing the benefits renewable power can provide in terms of energy security. Renewable ...

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