

The largest solar power generation in my country



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. Solar has massive potential to transform life on our planet. The data can be further refined based on region, technology or year of interest. This graphic visualizes the top 15 countries by cumulative megawatts of installed photovoltaic (PV) and concentrated solar power (CSP) as of 2023. In the graphic, each solar panel shows the total megawatts of solar energy installations installed as of 2023 for each country and the average annual. On this webpage, you can find the rating of top solar photovoltaic generating countries, get to know the volume of solar PV capacity installed in each individual nation annually, and find the solar PV percentage of total electricity consumption by country and globally. Using the links provided to every project, you can get additional.

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Ranked: The 15 Countries With the Most Solar Power ...

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

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Top 10 countries producing the most solar power in 2025

China remains the undisputed leader, producing nearly 400 billion kWh of solar energy in 2025. It holds more than one-third of the world's solar capacity, expanding by 45 per cent over the ...

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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.

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Solar PV capacity by country

On this webpage, you can find the rating of top solar photovoltaic generating countries, get to know the volume of solar PV capacity installed in each individual nation annually, and find the solar PV ...

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Solar power by country

OverviewAfricaGlobal use figuresAsiaEuropeNorth AmericaOceaniaSouth America

Many African countries receive on average a very high number of days per year of bright sunlight, especially the dry areas, which include the arid deserts (such as the Sahara) and the semi-desert steppes (such as the Sahel). This gives solar power the potential to bring energy to virtually any location in Africa without the need for expensive large-scale grid-level infrastructural developments. The distribution of solar resources across Africa is fairly uniform, with more than 85% of the continent's lan...

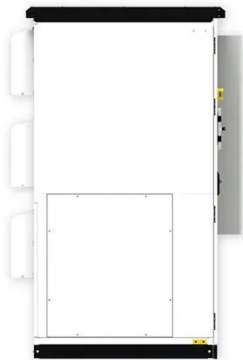
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Solar State By State - SEIA

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 energy storage projects

in the ...

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Countries by Solar Electricity Generation

China is the largest solar electricity producer in the world with 224,100 GWh generation per year. United States of America comes second with 107,274.828 GWh yearly generation. With 74,522 GWh of ...

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List of Top 10 Largest Solar Energy-Producing Countries

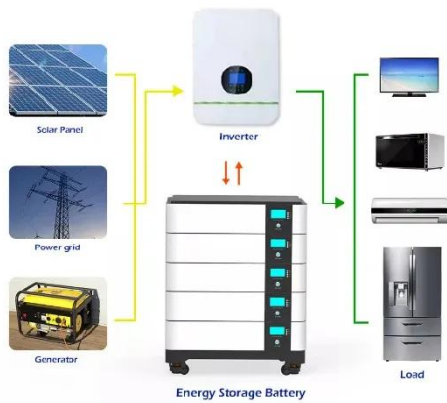
In this article, we will discuss the list of the top 10 largest solar energy-producing countries along with their production, the largest solar power plants, and how government ...

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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.

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Largest solar power plants in USA

Over a half of the top nation's utility-scale PV projects are based in California - the sunniest state of the country. The Beach State houses the largest solar power station as of 2020 - 579MWAC Solar Star. ...



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Solar power by country

Solar power in Morocco is enabled by the country having one of the highest rates of solar insolation among other countries-- about 3,000 hours per year of sunshine but up to 3,600 hours in the desert.

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