

European Solar Energy Storage

Who uses solar energy the most in the world



Overview

Many countries and territories have installed significant capacity into their electrical grids to supplement or provide an alternative to conventional sources. Solar power plants use one of two technologies: • (PV) use , either on or in ground-mounted , converting sunlight directly into electric power.

Which country uses the most solar power?

Solar power is the fastest-growing renewable energy source in the world. But what country uses the most solar power?

The leader in solar energy is China, at 306,973 MW total solar capacity, but that's due to its colossal size; solar power accounts for only around 3.5% of total energy consumption.

Which countries use solar power?

Countries like Chile and Australia use solar power for a bigger percentage of their total energy consumption. Solar energy consumption worldwide has accelerated in the last 20 years. China remains a global powerhouse for renewable energy, producing 427.72 terawatt-hours (TWh) of electricity from solar power in 2022.

Which countries have the most installed solar PV?

Solar energy is used all around the planet, but currently, China, Japan, and the United States lead the world in terms of total installed solar capacity. Here are the top ten countries ranked in terms of total installed solar in megawatts (MW):.

Why do more countries use solar power?

Although only 4.5% of global electricity comes from solar power, more countries continue adding solar capacity each year. Major increases in global capacity are driven by solar PV advancements and lowered costs, which makes it more likely for more countries to take advantage of this renewable energy source.

Which country has the largest solar energy capacity?

China has the largest solar energy capacity in the world, at 306,973 MW, which is 35.8% of the entire world solar capacity. What is the global capacity of solar electricity?

According to PV Magazine, the world had installed around 1 TW (terawatt) of solar capacity as of March 2022. How many MW are in a TW?

One million megawatts!.

Which countries use the most solar energy in 2022?

After China, the countries with the most significant solar energy generation include the U.S. (205.08 TWh), Japan (102.40 TWh) and India (95.16 TWh). 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 energy demand.

Who uses solar energy the most in the world



Which countries use the most solar energy? [Top 13, 2025]

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), China built more solar panels in 2023 than the entire world did in 2022.

Solar power generation

At the link below you can find a detailed description of the structure of our data pipeline, including links to all the code used to prepare data across Our World in Data.



Countries That Use The Most Solar Power

Countries That Use The Most Solar Power
Krughütte Solar Park in Germany. Solar Power Is The Hope For A Brighter Future, An Alternative Source Of Energy. Solar energy, the heat and radiant light from the sun, is ...

What percent of the world uses solar energy? 2025

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 energy

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Countries Using the Most Solar Energy, Ranked

Australia might not have the largest absolute solar capacity, but it's a world leader in solar adoption relative to its size. Australia achieves 17% solar penetration among the highest globally, with rooftop solar powering 3.7 million homes, though grid upgrades are needed.

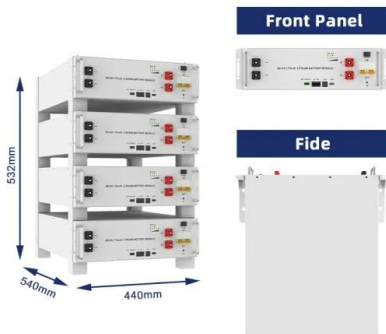
Ranked: The Countries With the Most Solar Power Installed

Solar energy continues to shine as one of the fastest-growing sources of electricity worldwide, with many countries seeing double-digit annual growth in solar installations. This graphic showcases the state of global solar power installations, highlighting the top 15 ...



Top 10 Country Uses The Most Solar Energy

A solar source of energy is an inexhaustible and cheap source of energy since solar energy comes from the sun. Solar panels convert it into usable power. Heating and electricity can be produced in homes and ...



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 installers of 2024 included China, the United States, and India.



Where is Solar Energy Used the Most Worldwide?

Which countries have the most installed solar PV? Solar energy is used all around the planet, but currently, China, Japan, and the United States lead the world in terms of total installed solar capacity. Here are the top ten countries ranked in terms of total installed solar in megawatts (MW):

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cumulative megawatts (MW) of installed photovoltaic (PV) and concentrated solar ...



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Where is Solar Power Used the Most in 2024?

China uses the most solar power of all countries in the world. In addition, China produces the vast majority of raw materials and finished products in the solar industry, accounting for nearly 85% of all solar panels manufactured worldwide.



Solar power by country

Photovoltaic (PV) systems use solar panels, either on rooftops or in ground-mounted solar farms, converting sunlight directly into electric power. Concentrated solar power (CSP, also known as "concentrated solar thermal") ...



Where is Solar Energy used most in the world? (2024)

Around 3.6% of the world's energy comes from solar energy, considering Photovoltaic, thermal, and concentrated power plant systems. By the time you have read this article, you will learn about countries that have the ...



Countries Using the Most Solar Energy, Ranked

South Korea represents the perfect blend of technological advancement and strategic expansion in solar energy. South Korea's solar power capacity reached just over 24 GW at the end of 2022, a 13.3% increase from ...

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.



Top 50 Countries That Use the Most Solar Power as a ...

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 renewable energy as a whole in this visualization from Solar Power Guide.

Solar Power by Country 2025

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.



Solar Energy Statistics By Country, Costs And ...

Solar energy has gone from being an alternative energy option to a widely used solution, as shown by rapid market growth, lower costs, and its use in homes and utilities around the world.

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