

European Solar Energy Storage

Who uses the most solar energy 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 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):.

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 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 country produces the most solar energy in 2022?

% of global solar energy consumed in 2022: 32.3% 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.

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.

Who uses the most solar energy in the world



Top 10 Countries That Use Solar Energy The Most

Countries that use solar energy the most are working towards a sustainable future by investing in renewable energy sources. From smartphones and TVs to street lights and electric trains, there is no denying that energy runs our lives. In ...

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.



Energy consumption by source, World

Share of total energy used in agriculture and forestry Share with access to electricity vs. per capita energy consumption Solar (photovoltaic) panel prices Solar (photovoltaic) panel prices vs. cumulative capacity Solar (photovoltaic) ...

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 ...



[Solar Energy - SEIA](#)

Solar power is energy from the sun that is converted into thermal or electrical energy. Solar energy is the cleanest and most abundant renewable energy source available, and the U.S. ...

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 ...



Where is Solar Power Used the Most in 2024?

Key Takeaways China uses the most solar energy and also produces the most solar panels in the world. The United States is the second largest producer of solar energy and is rapidly growing ...



35 Latest Solar Power Statistics, Charts & Data [2025] ...

Solar power is an energy source that has been around for quite some time. It's only recently, however, that people have begun to truly understand the potential of this energy source and how it can help the world transition ...



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 ...

The 5 Countries That Produce the Most Solar Energy

Discover which countries are taking advantage of solar power and how they are implementing systems to use solar as a viable source of energy.



Who uses the most energy in the world? (2025)

Who uses the most energy in the world? 1. China. Asian powerhouse China tops the world's list in electricity consumption, using more than 6.3 trillion kilowatts of energy per-hour annually. The country, which is claimed ...



Which Country Uses the Most Solar Energy?

China uses the most solar energy compared to any other country, leading the world in solar power generation and photovoltaic system installations.



Top 10: Countries Using Renewable Energy , Energy ...

The top countries using renewable energy come mostly from western Europe, and use sustainable energy sources including wind, solar, nuclear, and hydro As the global energy transition continues to develop, which ...

Revealed: Countries With the Most Solar Power Installed, 2025

Notably, China is currently leading the way in solar photovoltaic (PV) generation, with its total installed capacity surpassing 1,100 gigawatts (GW) as of June 2025.





Where Is Solar Power Most Used In The World?

Solar power is the fastest-growing renewable energy source globally, with China being the leader in solar energy, with a total solar capacity of 306, 973 MW. China, Japan, and ...

Cities that are generating more solar power globally

Insights drawn from successful experiences But, what do solar cities do and how do they use their solar power production? At times, solar power plays a pivotal role in urban ...



Uncovering Which Country Uses the Most Solar Energy

How Solar Energy Works Solar energy is a renewable and sustainable source of power that harnesses the energy of the sun. Understanding how solar energy works is key to grasping its ...

These maps show which countries use (and produce) most of our ...

Greenpeace activists try to promote the use of renewable energy, using solar and wind power, on November 29, 2011 on the Durban beachfront. UN climate talks got under ...



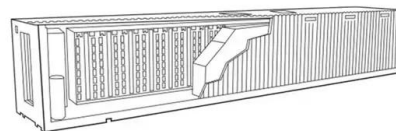
Ranked: The 15 Countries With the Most Solar Power ...

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 photovoltaic (PV) and concentrated solar ...

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.



Where solar is found

Solar energy is used all over the world, and like the United States, global solar electricity generation has increased substantially. Total

world solar electricity generation grew ...



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 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 ...

Which Country Uses the Most Solar in 2021? , Sullivan Solar Power

The use of solar photovoltaic energy has exploded around the world, but the growth has been anything but uniform. While some countries remain unable or unwilling to ...





The 9 largest solar panel manufacturers in the world ...

The National Renewable Energy Laboratory's most recent Solar Industry Update Report, released in December 2024, revealed the world's largest solar panel manufacturers. We've run through them below, in ascending order, ...

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