

# Countries that use solar energy





## Overview

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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.

What are the top 5 countries based on solar power?

The top five countries are China, United States, India, Japan, and Germany, based on solar power generation and installed capacity. Emerging leaders include Brazil, Australia, and Spain, each advancing solar rapidly through innovative policies and investment.

Which country has the most solar power installed 2024-25?

Top 10 countries with the most solar power installed 2024-25 list: China tops the global list, followed by the US, and India. Top 10 countries with the most solar power installed 2024-25: One of the cleanest and most sustainable power sources available is solar energy, which is captured straight from the sun using solar panels.

What are the top solar power countries in 2025?

Explore the top solar power countries in 2025, including China, the U.S., India, Japan, and Germany, plus emerging leaders like Brazil and Australia, driving the global shift to sustainable energy with innovative projects and policies.

Which countries use photovoltaics & concentrated solar power?



The United States conducted much early research in photovoltaics and concentrated solar power and is among the top countries in the world in deploying the technology, being home to 4 of the 10 largest utility-scale photovoltaic power stations in the world as of 2017.

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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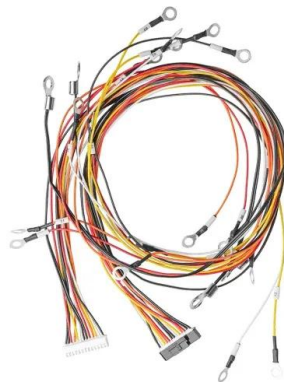
### Solar power by country

OverviewGlobal use  
figuresAfricaAsiaEuropeNorth  
AmericaOceaniaSouth 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.

### [35 Latest Solar Power Statistics, Charts & Data ...](#)

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 ...



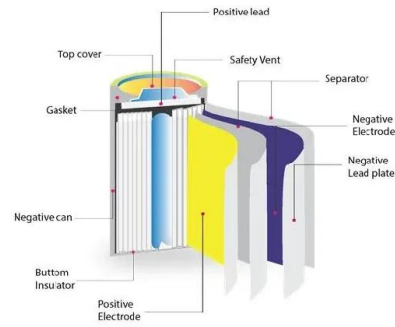
### [The 10 Countries That Will Generate the Most](#)

South Korea - 29 TWh South Korea is the tenth-highest producing nation of solar energy in the world because of its superior R&D and technological capabilities. The nation's solar energy industry has ...



### Chart: Which 10 countries generated the most ...

Solar energy continued to surge and break records across the globe in 2023, generating an estimated 5.5 % of global electricity, a total of 1,631 terawatt-hours. According to the latest "Global Electricity Review ...



### The 5 Countries Leading the Way in Solar Energy

As of 2021, solar energy contributed approximately 3.6% to the world's electricity generation, underscoring its growing role in the global energy mix. Countries around the world are ramping up their solar energy ...



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