

Ranking of countries in terms of solar power generation



Overview

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

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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.

Ranked: The 15 Countries With the Most Solar Power Installed

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 ...



Top 5 Countries Leading in Solar Power Adoption

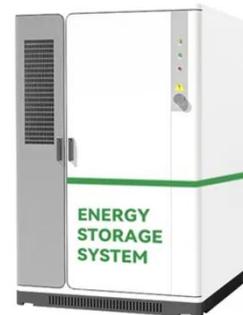
This listicle explores the top five countries leading in solar power adoption through sheer capacity, innovative

policies, or per capita penetration. These leaders are transforming their energy ...



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 ...



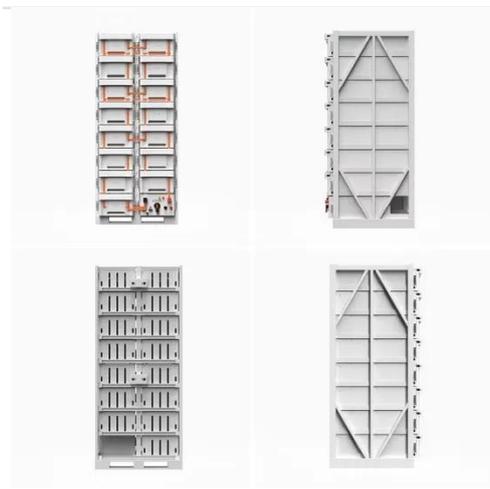
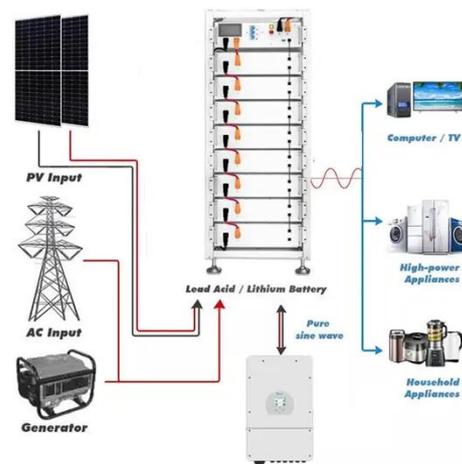
Revealed: Countries With the Most Solar Power Installed, 2025

This report will highlight the top 40 countries at the forefront of solar energy adoption, showcasing their efforts to combat climate change. Notably, China is currently leading the way in ...

Solar electricity generation, percent

The average for 2023 based on 185 countries was 4.92 percent. The highest value was in Luxembourg: 32.39 percent and the lowest value was in Bermuda: 0

percent. The indicator is available from 1980 ...



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.

Top 100 Countries by Share of Renewable Energy in Power Generation

This ranking tracks the share of electricity generated from renewable sources (hydro, wind, solar, bioenergy and other renewables) as a percentage of a country's total electricity generation.



Top 15 Countries Leading the World in Solar Power Installations

Six countries from the region rank in the top 15: China, Japan, India, Australia, South Korea and Vietnam. Given their

high energy demand and reliance on coal for energy, Asian ...



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.



Top Solar Power Countries in 2025: Leading the Global Renewable

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, ...

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