

# Solar energy consumption by country

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.

How much solar energy does the world use?

One million megawatts! That may seem like a colossal amount, but world solar energy consumption has only reached around 3.63%. Solar energy is the most abundant energy resource on the planet -- 173,000 terawatts of solar energy reaches the surface continuously. Fortunately, solar power growth worldwide has been steady and strong.

Which country consumes the most solar energy in 2022?

In 2022, China consumed 32.3 percent of the world's solar energy, making it the leading country in solar energy consumption that year. The United States accounted for approximately 15.9 percent of the world's solar consumption that year.

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!

How many countries have a solar power plant in 2022?

As of 2022, there are more than 40 countries around the world with a cumulative PV capacity of more than one gigawatt, including Canada, South Africa, Chile, the United Kingdom, South Korea, Austria, Argentina and the Philippines.

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.

The global installed solar capacity over the past ten years and the contributions of the top fourteen countries are depicted in Table 1, Table 2 (IRENA, 2023). Table 1 shows a tremendous increase of approximately 22% in solar energy installed capacity between 2021 and 2022. While China, the US, and Japan are the top three installers, China's relative contribution ...

In the chart shown we see global primary energy consumption dating back to the year 1800. ... Hydropower

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and nuclear account for most of our low-carbon energy, but wind and solar are growing quickly. ... Nuclear energy - alongside ...

Wind and water provide most renewable electricity; solar is the fastest-growing energy source. The accounting rules in Directive (EU) 2018/2001 prescribe that electricity generated by hydro power and wind power have to be normalised to account for annual weather variations (hydro is normalised over the last 15 years and wind over the last 5 years, ...

Solar energy generation is measured in terawatt-hours (TWh). Our World in Data. Browse by topic ... this can include standardizing country names and world region definitions, converting units, calculating derived indicators such as per capita measures, as well as adding or adapting metadata such as the name or the description given to an ...

services to a wide range of stakeholders in solar energy. They have supported the solar industry in site qualification, planning, financing, and the operation of solar energy systems for the past 11 years. They developed and operate a high-resolution global database and applications integrated within the Solargis information system.

Primary energy consumption in OECD countries 2019-2023, by fuel type ... Primary energy worldwide Global solar photovoltaics Coal energy industry worldwide Energy industry worldwide Oil industry ...

The data is collected from multi-country datasets (EIA, Eurostat, Energy Institute, UN) as well as national sources (e.g China data from the National Bureau of Statistics). Energy Institute - Statistical Review of World ...

? Germany is the top European country for solar energy consumption. Germany used 4.6% of global solar energy in 2022, making it the fifth biggest national consumer overall. The nation is also the European leader ...

When we compare the total energy consumption of countries the differences often reflect differences in population size. It's useful to look at differences in energy consumption per capita. This interactive chart shows the average energy consumption per person each year. A few points to keep in mind when considering this data:

Energy Institute - Statistical Review of World Energy (2024); Population based on various sources (2023) - with major processing by Our World in Data. "Solar power consumption per capita - Using the substitution method" [dataset]. ...

Solar; Transformation. Refining; Electricity generation; Final consumption ... Top five countries by total energy supply by energy source, 2019 ... Top five countries by total final consumption. Industry consumption by sub-sector of top five countries by total final consumption, 2019 Open. Top five countries by total final consumption by sector ...

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Renewable energy sources represented an estimated 24.1% of the European Union's final energy use in 2023. The share is estimated to have increased by one percentage point when compared with 2022, still largely driven by strong growth in solar power. The share is also amplified by a small 2023 reduction in non-renewable energy consumption. Meeting the new minimum EU ...

Although many factors contribute to a given country's energy consumption--level of industrial development, geographical size, ... Renewables is a combined metric that includes solar, wind, and biofuel power. 196 countries. Country. Total Cons. (EJ) 2023 . Per Capita Cons. (GJ/cap) 2023. Oil Cons. (TB/D) 2023.

? Germany is the top European country for solar energy consumption. Germany used 4.6% of global solar energy in 2022, making it the fifth biggest national consumer overall. The nation is also the European leader for solar capacity, with over 66.6GW installed in 2022 - more than three times Spain's capacity, even though the country is less ...

Key World Energy Statistics 2020 - Analysis and key findings. A report by the International Energy Agency. ... Final consumption. Read online. 3.0. Energy efficiency. Read online. 4.0. Energy balances. Read online. 5.0. ... Excludes countries with no solar PV production. Producers. TWh % of world total. People's Rep. of China. 177. 31.9 ...

Solar energy is the radiant energy from the Sun ... Yearly solar fluxes & human consumption 1; Solar 3,850,000 [12] Wind 2,250 [16] Biomass potential ~200 ... inexhaustible, and clean solar energy technologies will have huge longer-term benefits. It will increase countries' energy security through reliance on an indigenous, inexhaustible, and ...

Depending on the data, this can include standardizing country names and world region definitions, converting units, calculating derived indicators such as per capita measures, as well as adding or adapting ...

In 2023, renewable energy consumption in China reached 27.6 exajoules, more than any other country in the world. Renewable sources such as geothermal, wind, solar, biomass, and waste were included ...

Wind and solar are slowing the rise in power sector emissions. If all the electricity from wind and solar instead came from fossil generation, power sector emissions would have been 20% higher in 2022. The growth alone in wind and solar generation (+557 TWh) met 80% of global electricity demand growth in 2022 (+694 TWh). Clean power growth is ...

Key Facts. The world currently has a cumulative solar energy capacity of 850.2 GW (gigawatts).; 4.4% of our global energy comes from solar power.; China generates more solar energy than any other country, with a current capacity of 308.5 GW.; The US relies on solar for 3.9% of its energy, although this share is increasing rapidly every year.; 3.2 million US homes ...



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Mapped: Solar Power by Country in 2021. This was originally posted on Elements. Sign up to the free mailing list to get beautiful visualizations on natural resource megatrends in your email every week.. The world is adopting renewable energy at an unprecedented pace, and solar power is the energy source leading the way.

Primary energy consumption Total energy consumption. How much energy do countries across the world consume? This interactive chart shows primary energy consumption country-by-country. It is the sum of total energy consumption, including electricity, transport, and heating. We look at electricity consumption individually later in this article.

For the last 50 years, fossil fuels have dominated energy consumption. This chart looks at how the energy mix is changing in over 60+ countries. For the last 50 years, fossil fuels have dominated energy ...

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