

How popular is solar power generation



Overview

In the last decade, solar has grown with an average annual rate of 26 percent, reaching a capacity of over 138 gigawatts in 2023. Solar is becoming an increasingly important energy resource in the United States. In that same year, solar energy accounted for 55 percent of new electricity-generating . Benefitting from favorable policies and declining costs of modules, photovoltaic solar installation has grown consistently. [1][2] In 2023, China added 60% of the world's new capacity. That includes electricity from solar, wind and hydroelectric power plants, with solar driving the increase, the Sustainable Energy in America 2025 Factbook . The US solar industry installed 43.2 gigawatts direct current (GWdc) of capacity in 2025, a 14% decrease from 2024. We've gathered over 90 key solar energy statistics to show you exactly what's happening in this fast-growing sector. These include IEA, SEIA, Forbes, and official government reports. Each statistic has been verified .

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[Solar and Wind Power Has Grown Faster Than Electricity Demand](#)

Worldwide solar and wind power generation has outpaced electricity demand this year, and for the first time on record, renewable energies combined generated more power than coal,

Solar Market Insight Report - SEIA

Solar Celebrates Fifth Straight Year as Top Source of New Power The U.S. solar industry installed 43 gigawatts (GW) of new capacity in 2025, remaining the dominant source of new capacity



[2020 U.S. Population More Racially, Ethnically Diverse Than in 2010](#)

2020 Census results released today allow us to measure the nation's racial and ethnic diversity and how it varies at different geographic levels.

90+ Solar Energy Statistics: The Green Gold Rush (2025)

Solar energy has transformed from an alternative power source to a mainstream solution, demonstrated by dramatic market growth, falling costs, and widespread adoption across homes and



Solar accounted for 70% of new global power capacity in 2024



A new IEEE report shows solar dominated new generation in 2024, with 70% of added global capacity from PV and record installations in China and the United States.

American Community Survey Data

The American Community Survey releases new data every year, in the form of estimates, in a variety of tables, tools, and analytical reports.



Residential solar market in the U.S.

In the last decade, solar has grown with an average annual rate of 26 percent, reaching a capacity of over 138 gigawatts in 2023. In that same year, solar energy accounted for 55 percent of

Exclusive: Renewables grew to almost 50% of global electricity

Renewable power made up almost 50% of the world's electricity capacity last year after a record increase in solar installations, data from the International Renewable Energy Agency shared



Solar energy status in the world: A comprehensive review

The contribution of solar energy (including concentrating solar power (CSP) and solar photovoltaic (PV) power) to global electricity production, as one form of renewable energy sources, is

Growth of photovoltaics

Overview
Solar PV nameplate capacity
Current status
History of leading countries
History of market development
See also
External links

Between 1992 and 2023, the worldwide usage of photovoltaics (PV) increased exponentially. During this period, it evolved from a niche market of small-scale applications to a mainstream electricity source. From 2016 to 2022, PV has seen an annual capacity and production growth rate of around 26%, doubling approximately every three years.



Growth of photovoltaics

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Population

Our population statistics cover age, sex, race, Hispanic origin, migration, ancestry, language use, veterans, as well as population estimates and projections.



[Detailed Races and Ethnicities in the U.S. and Puerto Rico: 2020](#)

Explore population counts for detailed race and ethnicity groups and American Indian and Alaska Native tribes and villages for the nation, states, and counties.

Homeschooling on the Rise During COVID-19 Pandemic

Homeschooling is a legal instructional option in all 50 states and national homeschooling rates grew rapidly from 1999 to 2012 but had since remained steady at around 3.3%. However, the





[Population Growth Reported Across Cities and Towns in All U.S.](#)

Cities of all sizes grew on average from 2023 to 2024, according to the U.S. Census Bureau's Vintage 2024 Subcounty population estimates released today.

Common U.S. Surnames

Find the most frequently occurring last names or surnames in the United States as tabulated from some of the last few Censuses of Population and Housing.



New Data on Detailed Languages Spoken

This release provides data on over 500 individual languages and language groups spoken across the country during the five-year period from 2017 to 2021.

[Solar power has exploded in popularity as wind lags, report shows](#)

That includes electricity from solar, wind and hydroelectric power plants, with solar driving the increase, the Sustainable Energy in America 2025 Factbook, released Friday, reports.



Census Surname Data

Census Bureau has embarked on a names list project involving a tabulation of names from the Census of Population.

Most Popular Surnames in the United States

The country's 1,000 most common surnames by race and Hispanic origin and those that occurred 100 or more times in the 2010 Census.



What percent of the world uses solar energy? 2026

As of 2023, solar energy was the world's third-largest renewable energy technology, behind wind and hydropower - nearly 5.5% of global electricity generation came from solar energy

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