

# **Solar power generation economic power generation capacity**



## Overview

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Approximately 70% of newly installed global electricity generating capacity for 2024 came from PV, with record installations in China (278 GW) and the U.S. Data source: Energy Institute - Statistical Review of World Energy (2025); IRENA (2025) - Learn more about this data Our World in Data is free and accessible for everyone. Help us. Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024). power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. This amount represents an almost 30% increase from 2024 when 48. From pv magazine USA The latest edition of IEEE's annual report on the role of solar in the global renewable energy transition shows the. Our annual report on electricity generation capacity in the United States breaks down the current and imminent generation of electricity by type of fuel, location, and ownership type. In 2024, the United States. There are two main types of solar energy technologies—photovoltaics (PV) and concentrating solar-thermal power (CSP). On this page you'll find resources to learn what solar energy is; how you, your business, or your community can go solar; and find resources for every step of the way.

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### [Solar energy generation vs. capacity, 2024](#)

Solar energy generation, measured in gigawatt-hours (GWh) versus installed solar capacity, measured in gigawatts (GW).

### Solar Energy

Solar energy is the fastest growing and most affordable source of new electricity in America. As the cost of solar energy systems dropped significantly, more Americans and businesses ...



### [Solar accounted for 70% of new global power capacity in 2024](#)

Approximately 70% of newly installed global electricity generating capacity for 2024 came from PV, with record installations in China (278 GW) and the U.S. (38 GW).



### [The economics of concentrating solar power \(CSP\): Assessing cost](#)

The current state of the market reveals about 8 GW of installed global CSP capacity in 2023, with rapid growth occurring in China, Chile, South Africa and the Middle East. Key economic ...



[Solar providing more than 75% of nation's new power generation capacity](#)

In September, 98% of new electric generating capacity in the United States came from solar, marking 25 consecutive months where solar led other energy sources.

[Solar State By State - SEIA](#)

With over 54 GW of solar installed, enough energy to power over 15 million homes. Texas has the fastest growing solar economy with the largest utility-scale solar and energy storage projects in the ...



[Shining a light on solar capacity factors , Article Page](#)

The global capacity of solar PV is growing at a record pace, driven by supportive government policies such as subsidies and feed-in tariffs and decreasing costs due to advancements ...



[Renewable electricity - Renewables 2025 - Analysis](#)

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes ...



[America's Electricity Generating Capacity](#)

The largest fuel source for this capacity is natural gas (42.7%), followed by coal (15%). Wind, nuclear, solar, and hydro together account for more than one-third of capacity. Solar continues to be the main ...

[Solar, battery storage to lead new U.S. generating capacity additions](#)

In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility ...



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