

# The path of solar power generation in the United States



## Overview

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Utility-scale solar capacity reached 128.6 GW in March 2025, growing from 96.6 GW in March 2024. Electricity generation will grow by 1.6% in 2027, when it reaches an annual total of 4,423 BkWh. The three main dispatchable sources of electricity generation (natural gas, coal, and nuclear) accounted for 75% of. Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. 8 terawatt-hours (TWh) in the United States. Solar power generation has increased drastically over the past two decades, especially since 2011, when it hovered just below two terawatt. Utility-scale solar posts record growth in 2024; projected to supply most of the nation's increase in electricity generation in 2025 and 2026. The Energy Information Administration (EIA) reported that, in 2024, the United States added a record 30 gigawatts (GW) of utility-scale solar to the grid. Utility-scale solar generation grew to 232 TWh in the rolling 12 months through March 2025, according to the latest data from the Energy Information Administration.

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### Growth of Renewable Energy in the US , World Resources Institute

Solar deployment and electric vehicle (EV) sales broke records in 2023 and 2024. Renewables now dominate new power generation capacity, while new domestic clean energy ...

### Record-breaking year ahead for US power generation with

The US is experiencing its most transformative year for electricity generation in over 20 years, driven by a surge in solar energy and backed by large-scale battery storage.



### Solar Futures Study

The past decade was transformative for solar, with rapid cost reductions and subsequent increases in deployment. It is now possible to envision--and chart a path toward--a future where solar provides ...

### Electricity generation from U.S. solar grows 28% year-over-year

Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy Information Administration's (EIA) latest release of its Electric ...



### Solar power generation drives electricity generation growth over the

We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest ...

### A Decade of U.S. Solar Growth

Top 10 states for utility- and small-scale solar (combined) generation in 2023. Find data for all 50 states and the District of Columbia in the full dataset.



### US Electricity 2025 - Special Report

Solar generation boomed in 2024, rising by 27%, while wind rose by 7% and coal fell by 3.3%. Since the peak of US coal power in 2007, wind and solar have

overtaken coal in 24 states, ...



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## Solar power in the United States

OverviewSolar potentialHistorySolar photovoltaic powerConcentrated solar power (CSP)Government supportSee alsoFurther reading

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt-hours (TWh) in the United States. Total solar generation that year, including estimated small-scale photovoltaic generation, was 303.8 TWh. As of the end of 2024, the United States had 239 gigawatts (GW) of installed photovol...



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## U.S. solar power generation 2024, Statista

In recent years, solar power generation has seen more rapid growth than wind power in the United States. However, among renewables used for electricity,

wind has been a more common ...



### Solar energy on the rise in America

The Energy Information Administration (EIA) reported that, in 2024, the United States added a record 30 gigawatts (GW) of utility-scale solar to the grid, accounting for 61% of new ...



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