

National Bureau of Statistics Solar Power Generation



Overview

Key updates from the Fall 2024 Quarterly Solar Industry Update. Key updates from the Fall 2024 Quarterly Solar Industry Update. Electricity generation by the U. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U. 6% in 2027, when it reaches an annual total of 4,423 BkWh. The. Ben Franklin's lightning experiments led to Thomas Edison's light bulb, which led to the use of motors and machines that powered the world in the 20th Century. Now electricity is the driving force behind modern society, powering everything from the lights in our homes and offices, to our cell. The rest of the world was up 11% y/y. solar jobs, are in installation and project management. Solar power generation has increased drastically over the past two decades, especially since 2011, when it hovered just below two terawatt.

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[Quarterly Solar Industry Update](#)

Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry.



[Solar and wind generation occupations: a look at the next decade](#)

o At the end of 2024, solar was the second-largest source of U.S. generation capacity, though still a growing percentage of the U.S. electric generation mix. o In 2024, solar represented ...



[Data and Tools , Solar Research , NLR](#)

Browse or search this comprehensive listing of data and tools for analyzing photovoltaic (PV) and concentrating solar power (CSP) technologies, solar grid and systems integration, and ...

[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 ...



[U.S. Utility-Scale Solar, 2025 Data Update](#)

Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U.S. utility-scale solar sector.



[Solar Resource Data, Tools, and Maps . Geospatial Data Science . NLR](#)

Solar Resource Maps and Data Find and download resource map images and data for North America, the contiguous United States, Canada, Mexico, and Central America. Solar Supply ...



[Renewable energy statistics 2025](#)

Renewable energy statistics 2025 provides datasets on power-generation capacity for 2015-2024, actual power generation for 2015-2023 and renewable energy balances for over 150 countries and areas for ...



[Spring 2025 Solar Industry Update](#)

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[Solar Energy Facts & Statistics 2026](#) .
[ConsumerAffairs®](#)

The latest government data discusses U.S. solar energy capacity, efficiency, and available homeowner tax credits as well as renewable energy trends.

[Solar and wind generation occupations: a look at the next decade](#)

As demand for solar and wind energy generation increases over the next 10 years, solar and wind energy infrastructure will need to be put in place. This requires a variety of workers, ...



[U.S. solar power generation 2024](#), Statista

In 2024, net solar power generation in the United States reached its highest point yet at 218.5 terawatt hours of solar thermal and photovoltaic (PV) power.

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