



# Solar power generation installed capacity over the years

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Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2.2 terawatts in 2024. Only in that last year, ...

Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy Information ...

We expect cumulative US solar capacity to more than triple from 236 GWdc installed at year-end 2024, to 739 GWdc installed by 2035, with average annual capacity additions of more than ...

In 2024, over 30,000 MW of solar capacity came online, which is a 30% increase in operating solar capacity. An additional 34,000 MW are under preparation, testing, or construction and projected to ...

Climate Central's new report, A Decade of Growth in Solar and Wind Power, analyzed U.S. solar and wind energy data from 2014 to 2023 for all 50 ...

According to EIA data, 40% of 2023 installed U.S. solar capacity occurred in Q4--relatively consistent with previous years, though much greater in absolute terms.

OverviewSolar photovoltaic powerSolar potentialHistoryConcentrated solar power (CSP)Government supportSee alsoFurther readingIn the United States, 14,626 MW of PV was installed in 2016, a 95% increase over 2015 (7,493 MW). During 2016, 22 states added at least 100 MW of capacity. Just 4,751 MW of PV installations were completed in 2013. The U.S. had approximately 440 MW of off-grid photovoltaics as of the end of 2010. Through the end of 2005, a majority of photovoltaics in the United States was off-grid.

The previous editions and complete electricity generation and capacity dataset from 2000 onwards are available for download on the Data and Statistics web pages.



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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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