



# National solar power grid-connected installed capacity

The United States installed a record-breaking 50 GW of new solar capacity in 2024, the largest single year of new capacity added to the grid by any energy technology in over two decades.

New interconnection applications have slowed, but an estimated 93 GW of solar and 139 GW of storage capacity sought grid connection in 2024.

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

Since 2021, more solar capacity has come online than any other energy source, particularly from 2023 to 2024. New natural gas capacity significantly decreased in the past year, while the amount of wind ...

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 ...

Depending on the data, this can include standardizing country names and world region definitions, converting units, calculating derived indicators such as per capita measures, as well as ...

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The United States has more generation capacity in its interconnection queue than installed nationwide. If all the power projects that are seeking to connect to the grid were to come ...

Solar, wind, and storage accounted for 77% of all new power capacity installed. Utility-scale solar installations soared to 19.6 GW, with utility-scale projects leading the expansion. Energy ...

In 2024, the United States added 50 gigawatts (GW) of solar power to its grid, marking the largest single-year addition of capacity by any energy technology over the past two decades.



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