

# Gigawatts of solar power capacity



## Overview

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In 2024, generators added a record 30 GW of utility-scale solar to the U. We expect this trend will continue in 2025, with 32. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. This amount represents an almost 30% increase from 2024 when 48. 6 GW of capacity was installed, the largest. Cumulative installed solar capacity, measured in gigawatts (GW). Data source: IRENA (2025) - Learn more about this data processed This is the citation of the original data obtained from the source, prior to any processing or adaptation by Our World in Data. To cite data downloaded from this page. "Solar power is the fastest-growing source of new electric generating capacity in the United States, driven by large-scale solar photovoltaic (PV) projects built by electric utilities and independent power producers," the agency reminds everyone. "In our most recent monthly inventory of power. Although you may not have remembered the date, you've probably heard of Doc's DeLorean, which takes 1. Admittedly, our national labs haven't quite figured out time travel just yet, but they do analyze power. 3 terawatts (TW) of generation capacity, as well as nearly 29,000 MW of energy storage, an 11,000 MW increase in energy storage in the past year. Led by the rapid rise of solar PV, renewables' expansion is taking place in a context of.

## Gigawatts of solar power capacity

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### United States sets new record with 50 GW of installed solar capacity

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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### US sets record for solar capacity added in 2024

In 2024, the United States achieved a remarkable milestone by adding a record-breaking 50 gigawatts (GW) of new solar capacity to its electrical grid. This achievement marks the largest ...

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IP65/IP55 OUTDOOR CABINET

OUTDOOR MODULE CABINET

OUTDOOR 5G BASE STATION CABINET

WATERPROOF

### 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 ...

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### Solar adds more new capacity to the

## US grid in 2024 than any energy

The US installed 50 gigawatts (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. That's enough to

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## US Expects To Add 32 Gigawatts Of Solar Power In 12 Months

"Power plant developers added 31 gigawatts (GW) of utility-scale solar PV generating capacity in 2024, which increased total U.S. utility-scale solar capacity by 34%. EIA further noted

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## Solar, battery storage to lead new U.S. generating capacity additions

We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U.S. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory ...

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## Installed solar energy capacity

Cumulative installed solar capacity, measured in gigawatts (GW).

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## How Much Power is 1 Gigawatt?

For instance, at the end of 2023, there were over 150.5 GW of wind power and 137.5 GW of solar photovoltaic (PV) total in the United States. To help put this number in perspective, it's important to

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## Global renewable capacity is set to grow strongly, driven by solar PV

Renewables 2025, the IEA's main annual report on the sector, sees global renewable power capacity increasing by 4 600 gigawatts (GW) by 2030 - roughly the equivalent of adding ...

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