

GW-level solar capacity





Overview

Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the second half of the year, according to our latest survey of electric generating capacity changes. How many GW of solar will be installed this year?

The US Energy Information Administration (EIA) projects 32.5 GW of solar, 18.2 GW of energy storage, and 7.7 GW of wind will be deployed this year. These additions will make up nearly 93% of total new capacity, which is expected to hit a record 63 GW. From pv magazine USA.

What is the difference between GW and total solar power?

Cumulative installed solar capacity, measured in gigawatts (GW). Total solar (on- and off-grid) electricity installed capacity, measured in gigawatts. This includes solar photovoltaic and concentrated solar power. IRENA (2025) - processed by Our World in Data.

How many GW of solar generating capacity are there in 2025?

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How many GW of solar power did the US install in 2024?

WASHINGTON, D.C. — The United States installed a record-breaking 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.

How much did solar power cost in 2023?

Key findings from this year's report include: 18.5 GW AC of new utility-scale PV capacity came online in 2023, bringing cumulative installed capacity to



more than 80.2 GW AC across 47 states. Installed costs continued to fall in 2023. Relative to 2022, capacity-weighted averages decreased by 8% to \$1.43/W AC (or \$1.08/W DC).

How many GW of electric generating capacity will be retired in 2025?

Of the 8.7 GW of electric generating capacity that U.S. operators plan to retire during 2025, only 2.0 GW was retired in the first half of the year.



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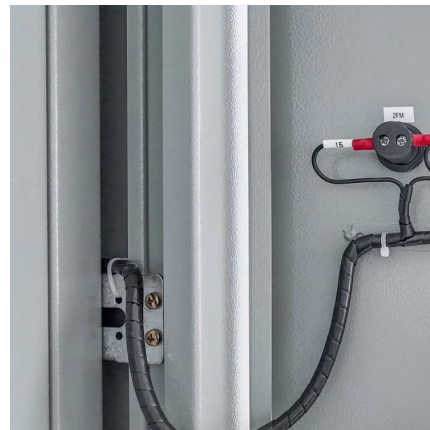


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Global solar installations rise 64%, to 380 GW, in first half of 2025 China led the pack in solar installations, adding 256 GW - more than twice as much solar capacity as the ...



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In 2023 alone, China installed 57% of global capacity - 253 GW - equivalent to the levels installed globally in 2022. On the manufacturing side, a massive scale-up of capacity ...

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