

GW-scale solar energy by 2025



Overview

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. 7 gigawatts direct current (GWdc) of capacity in Q3 2025, a 20% increase from Q3 2024, a 49% increase from Q2 2025, and the third largest quarter for deployment in the industry's history. Following a low second quarter, the industry is ramping up as the end of. Global solar installations are on track for another record year. While remaining a modest contributor to overall electricity generation for now, solar's.

- EIA projects that PV's growth in 2023 (27 GW ac) and 2024 (36 GW ac) will continue in 2025 (39 GW ac) and remain at similar levels in 2026 (36 GW ac)
- In 2024, 24 states and territories generated more than 5% of their electricity from solar, with California leading the way at 32.

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

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-scale solar ...

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U.S. Solar Market Trends 2025 - Record Growth & Risks

In this analysis, we examine the latest trends in installations, costs, and market dynamics, providing solar businesses, developers, and investors with a comprehensive picture of where the market is ...



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Global solar installations surge 64% in first half of 2025

In the first six months of 2025, the world added 380 GW of new solar capacity -- 64% higher than during the same period in 2024, when 232 GW were installed. In 2024, it took until September for global ...

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Solar and battery storage will lead new generation in ...

"We expect this trend will continue in 2025, with 32.5 GW of new utility-scale solar capacity to be added.

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US solar tops 11.7 GW in a huge Q3 despite political roadblocks

"We expect 250 GW of solar to be installed from 2025 to 2030," said Michelle Davis, head of solar research at Wood Mackenzie and lead author of the report.

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Renewable electricity - Renewables 2025 - Analysis

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes and ...

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US may add 33 GW of solar in 2025, over half of planned new capacity

Developers in the US installed 12 GW of utility-scale solar capacity in the first half of 2025 and plan to add another 21 GW

in the second half of the year, according to data presented on Wednesday by the ...

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Spring 2025 Solar Industry Update

- In Q1 2025, solar accounted for 10% of China's total energy generation. o Renewable sources continue to capture a larger share of China's growing electric capacity.

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Solar Market Insight Report Q4 2025

We still anticipate a total of 41 GWdc of utility-scale solar to be built in 2025. And while we've increased our 2026 outlook by 9% to 36.1 GW, we've reduced our outlook for 2027 and 2028 by 10% and ...

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Global Market Outlook for Solar Power 2025-2029

In our most realistic scenario, we anticipate a 10% increase in installations to 655 GW in 2025, with annual growth

rates remaining in the low double digits between 2027-2029, reaching 930 GW by the end ...

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