

# Solar power generation is being installed



## 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. The American Public Power Association is the voice of not-for-profit, community-owned utilities that power approximately 2,000 towns and cities nationwide. We represent public power before the federal government to protect the interests of the more than 55 million people that public power utilities. “We've effectively doubled our installed solar capacity in less than a year and a half — a testament to Pennsylvania's commitment to a balanced, 'all-of-the-above' approach that supports our economy, protects our environment, and keeps the lights on for everyone. ” More than 2,000 megawatts (MW) of. Global solar installations are on track for another record year.

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

The trajectory is clear: solar is set to dominate new electricity generation in the U.S. for years to come. Financing and policy may bring turbulence, but the long-term growth path remains ...

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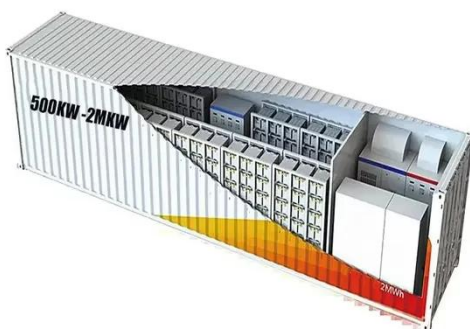
### Solar Capacity by State 2026

This report summarizes the latest statistics on solar power capacity by state and highlights the top U.S. states in solar power generation.



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### Residential solar market in the U.S.

Of the total solar capacity installed in the U.S., over 26 percent corresponds to residential installations. This segment has grown in recent years, reaching some 4.7 million installations in

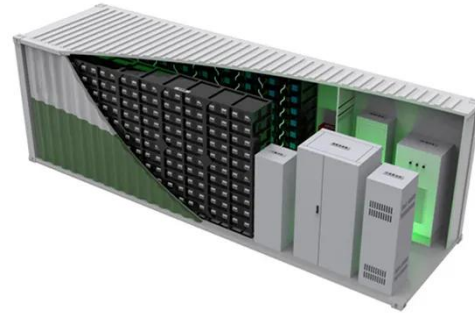
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### Solar power in the United States

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt ...

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

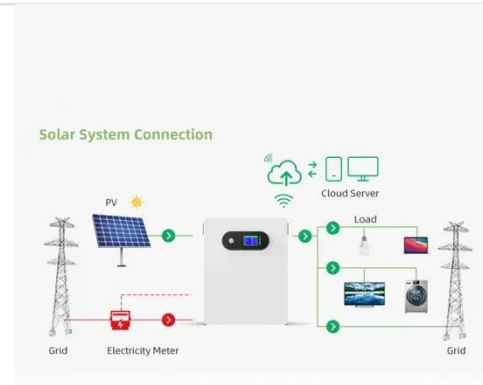
In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility ...

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## Pennsylvania Doubles Solar Power Generation in Just 17 Months

"We've effectively doubled our installed solar capacity in less than a year and a half -- a testament to Pennsylvania's commitment to a balanced, 'all-of-the-above' approach that supports our ...

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## Global solar installations surge 64% in first half of 2025

With deployment surging across key markets and China's rapid scale-up pushing global installations to new highs,

2025 is on track to become another historic year for solar power. The ...

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### China adds 315 GW of solar in 2025 - pv magazine International

China installed a record 315 GW (AC) of new solar capacity in 2025, lifting cumulative installed PV capacity to 1.2 TW and pushing non-fossil power sources past thermal generation for the ...

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### Solar Market Insight Report - SEIA

Solar accounted for 58% of all new electricity-generating capacity added to the US grid through the third quarter of 2025, with more than 30 GW installed. Solar and storage, combined, ...

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### America's Electricity Generation Capacity, 2025 Update

A majority of all new generation capacity under development is for solar energy (55%), followed by wind (26%) and

natural gas (11%). However, over two-thirds of the wind capacity is in the proposed stage, ...

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