

# Current status of solar power generation and storage

New solar capacity added between now and 2030 will account for 80% of the growth in renewable power globally by the end of this decade. Adoption accelerates due to declining costs, shorter permitting ...

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 ...

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 ...

This continues a decade-long trend of rapid growth in solar power. Battery storage nearly doubled in 2024, with total installed capacity reaching almost 29 GW -- and projected to grow ...

Solar and Storage Lead New Capacity Additions Solar and storage have become the backbone of new electricity infrastructure in the U.S. Combined, these technologies have represented 85% of new ...

U.S. electricity overview Regional electricity overview Balancing authority electricity overview U.S. daily generation mix Regional daily generation mix Add / Edit Custom views Pending (view not saved)

It examines the current state of solar power and related academic solar energy research in different countries, aiming to provide valuable guidance for researchers, designers, and policymakers ...

The Global Solar Power Tracker is composed of worldwide facility-level data on utility-scale (1 MW+) solar photovoltaic (PV) and solar thermal facilities, as well as country-aggregated distributed (&lt;1 ...

Connecting new electric generation and storage is urgently needed to meet this growing demand. Energy storage is particularly well-suited to provide needed reliability services and is ...

In 2023, approximately 45% of battery capacity and 26% of utility-scale PV capacity were hybrid PV/battery energy storage system projects--relatively consistent with previous years.

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