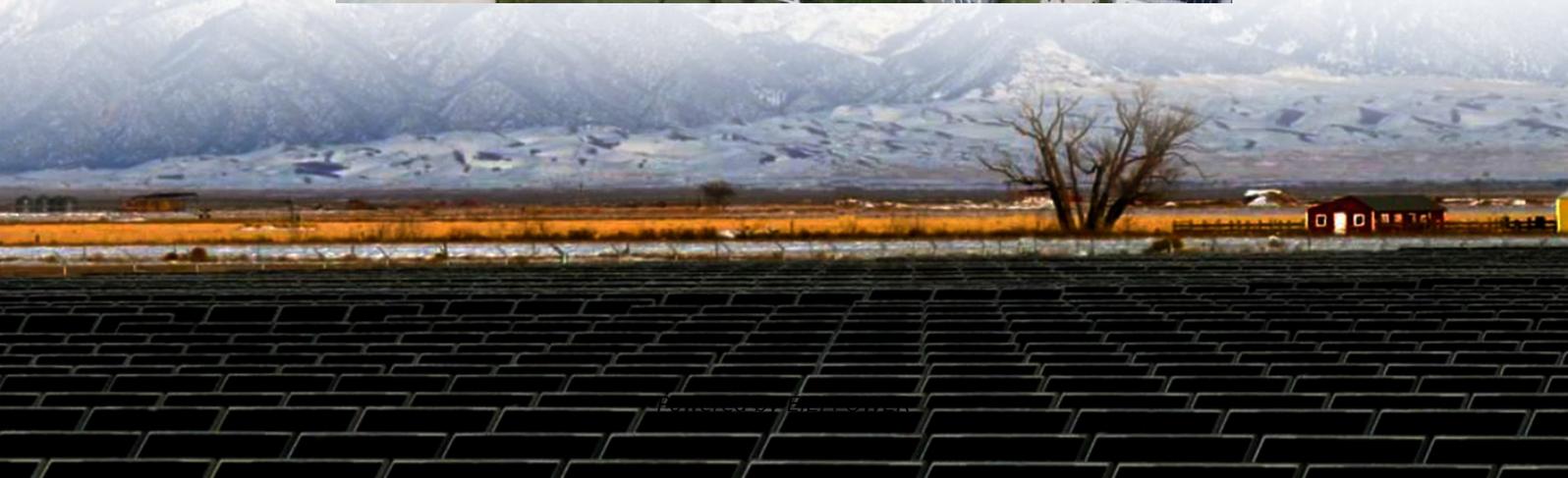


The role of solar power generation and energy storage in the United States





Overview

Why are energy storage systems important?

Energy storage systems, mostly large batteries, are important because they help store solar and wind power for use when the sun isn't shining or the wind isn't blowing. In 2025, over 31 GW of new storage capacity is expected to be built. California and Texas are the leaders in battery storage.

How much solar power does the United States have?

Installed solar capacity in the U.S. now totals about 220 GW, enough to provide over 7% of the nation's electricity. 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 another 47% in 2025.

How many GW of solar & battery storage will be added in 2024?

Together, solar and battery storage account for 81% of the expected total capacity additions, with solar making up over 50% of the increase. Solar. 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.

Why is storage growth important?

Storage growth is important because it makes renewable energy more reliable. Batteries can help keep the grid stable and reduce blackouts. Wind energy is still expanding, though not as fast as solar. More than 2 GW of new wind capacity is expected in Texas alone in 2025, and around 2 GW more across the rest of the country.



The role of solar power generation and energy storage in the United States



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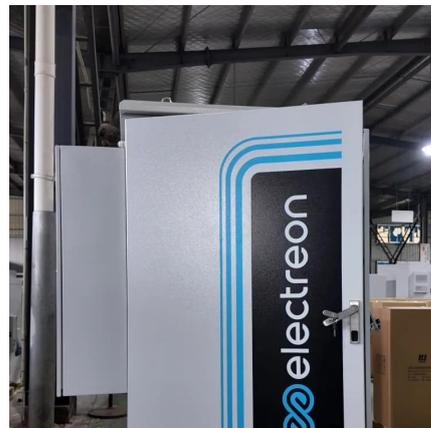


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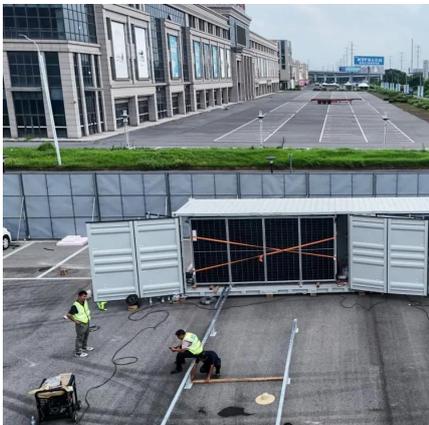


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