



Gigawatt Solar by 2025





Overview

According to the US Energy Information Administration (EIA), developers plan to add 64 gigawatts (GW) of new utility-scale capacity in 2025, surpassing the previous record of 58 GW set in 2002. At the heart of this expansion is solar power, supported by rapidly growing battery.

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We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U.S. 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 United States is set to achieve its largest annual increase in electricity generation capacity in more than two decades. According to the US Energy Information Administration (EIA), developers plan to add 64 gigawatts (GW) of new utility-scale capacity in 2025, surpassing the previous record of.

The Energy Information Administration said cumulative solar installations are expected to double from 91 GW to 182 GW from the end of 2023 to the end of 2026. Meanwhile, battery energy storage capacity is expected to grow 70% in 2025 alone. Solar energy additions to the U.S. grid are continuing.

The latest IEA Renewables 2025: Analysis and Forecasts to 2030 report projects that global renewable power capacity will rise by around 4,600 GW by 2030, effectively adding the equivalent of the combined power generation capacity of China, the European Union and Japan. Solar PV is the centerpiece.



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US Solar Power Surge: Developers Target Record 33GW Capacity In 2025

In 2024, the U.S. added 36 GW of solar energy, and 2025 is on track to exceed this by another 33 GW, far surpassing what was previously possible.

Solar to Drive Nearly 80% of New Renewable Capacity: A 2025 ...

As we wrap up the year, global renewables remain on a strong upward trajectory -- with solar PV clearly leading the transition -- but the International Energy Agency (IEA) warns that grid ...



US Solar Power Set to Achieve Record Growth in 2025 with 63 ...

With an unprecedented 63 gigawatts of new power capacity expected to be built, nearly all of this will be carbon-free, responding to a significant surge in demand for renewable ...

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

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 ...



[Global Solar PV Installations Surge 64% in 2025](#)

Global solar PV installations jumped 64% year-on-year (YoY) to 380 GW DC in the first half of 2025, driven by China's rush to install projects ahead of the new market-based ...



[Record-breaking year ahead for US power generation with](#)

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[Record-breaking year ahead for US power ...](#)



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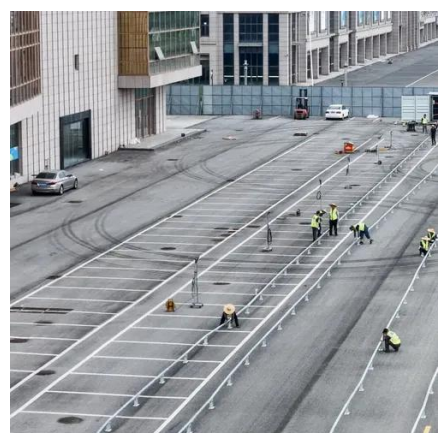
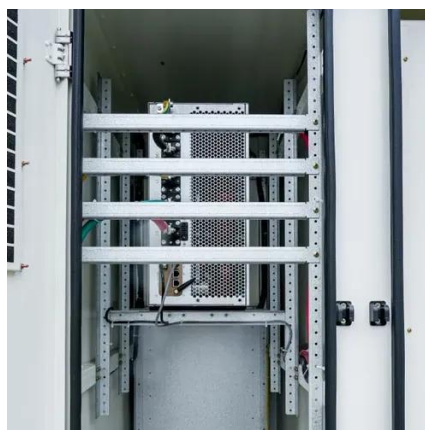


Solar Market Insight Report Q3 2025

Solar accounted for 56% of all new electricity-generating capacity added to the US grid in the first half of 2025, with a total of 18 GW installed. Combined, solar and storage ...

[US Solar Power Set to Achieve Record Growth in ...](#)

With an unprecedented 63 gigawatts of new power capacity expected to be built, nearly all of this will be carbon-free, responding to a ...



[U.S. total solar capacity to double over three-year ...](#)

Solar is on an impressive growth ramp, reaching 91 GW of cumulative capacity by the end of 2023 and 121 GW by the end of 2024. ...

[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 ...



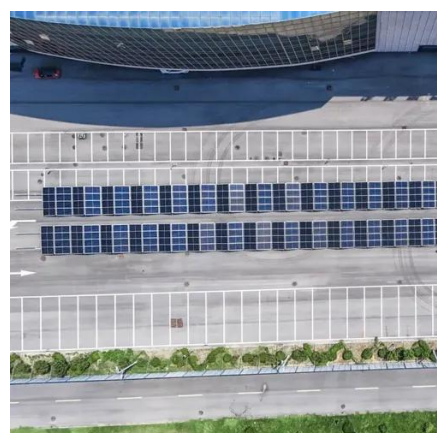
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[U.S. total solar capacity to double over three-year span](#)

Solar is on an impressive growth ramp, reaching 91 GW of cumulative capacity by the end of 2023 and 121 GW by the end of 2024. EIA expects 26.3% growth in installations in ...



[Global Solar Installations Up 64 Percent So Far This Year](#)

Solar is the fastest-growing source of electricity worldwide, and the buildout continues to gain pace, year after year. In the first six months of 2025, countries installed 380 ...



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