

Wind Solar and Storage New Energy and Investment





Overview

How much money will solar and battery storage invest in 2025?

Investment in solar, both utility-scale and rooftop, is expected to reach \$450 billion in 2025, making it the single largest item in the global energy investment inventory. Battery storage investments are also climbing rapidly, surging above \$65 billion this year.

Is solar a good investment?

Globally, spending on low-emissions power generation has almost doubled over the past five years, led by solar PV. Investment in solar, both utility-scale and rooftop, is expected to reach \$450 billion in 2025, making it the single largest item in the global energy investment inventory.

How has the IRA changed the solar industry?

Solar manufacturing investment has grown substantially since the IRA became law, increasing from \$0.9 billion of annual investment in 2022 to nearly \$6.0 billion in 2024. The US added 35.3 gigawatts (GW) of solar capacity to the grid last year, spanning commercial and industrial installations and utility-scale projects.

Will renewables fill the resource gap in 2025?

Renewables are in a race with other clean generation options to fill the resource gap. Advantages include technological maturity, low cost, and high modularity. Domestic supply chains, AI acceleration of operational and technological innovation, and carbon attribute monetization could provide additional advantages in 2025.

How many GW of solar generating capacity are there in 2025?

Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the second half of the year, according to our



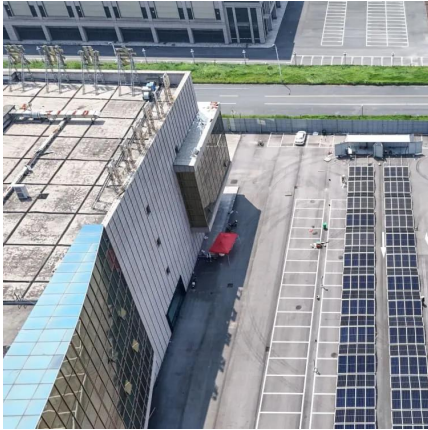
latest survey of electric generating capacity changes.

How is Ai reshaping solar panel and battery storage supply chains?

Reshored cleantech plants are reshaping solar panel and battery storage supply chains. AI is increasingly being leveraged to optimize these supply chains, and to accelerate operational efficiencies and technological innovation in renewables.



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Global energy investment is set to increase in 2025 to a record \$3.3 trillion despite headwinds from elevated geopolitical tensions and economic uncertainty, a new IEA report ...

[U.S. developers report half of new electric generating capacity will](#)

If those plans are realized, solar would account for more than half of the 64 GW that developers plan to bring online this year. Battery storage, wind, and natural gas power ...



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New utility-scale solar, paired solar and storage, utility-scale onshore wind, and paired wind and storage, even without subsidies, clearly have the



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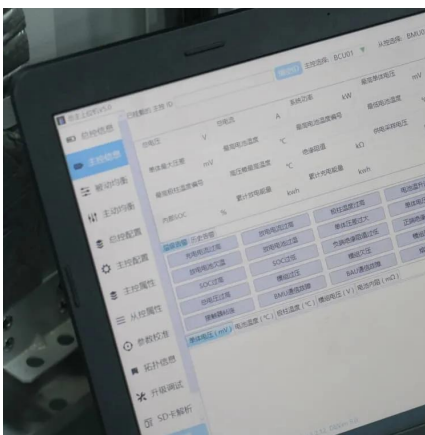
[Solar, battery storage to lead new U.S. generating capacity ...](#)

Battery storage. In 2025, capacity growth from battery storage could set a record as we expect 18.2 GW of utility-scale battery storage to be added to the grid. U.S. battery storage already ...



[Energy and Climate Solutions White Paper: Solar, Wind, and...](#)

Summary and Overview This white paper overviews provisions in the Inflation Reduction Act of 2022 ("IRA") and associated implementation guidance in effect as of the date reflected that ...



[Growth of Renewable Energy in the US , World Resources Institute](#)

These upward trends signal that clean electricity sources are an increasingly vital part of the U.S. economy and power system, with renewable sources and battery storage making up the vast ...

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We raise our global new BESS installation forecast for 2030E to 453GWh, implying a 41% CAGR in the next decade. We expect solar/wind plus storage grid parity in 2025E (previously 2027E) ...



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