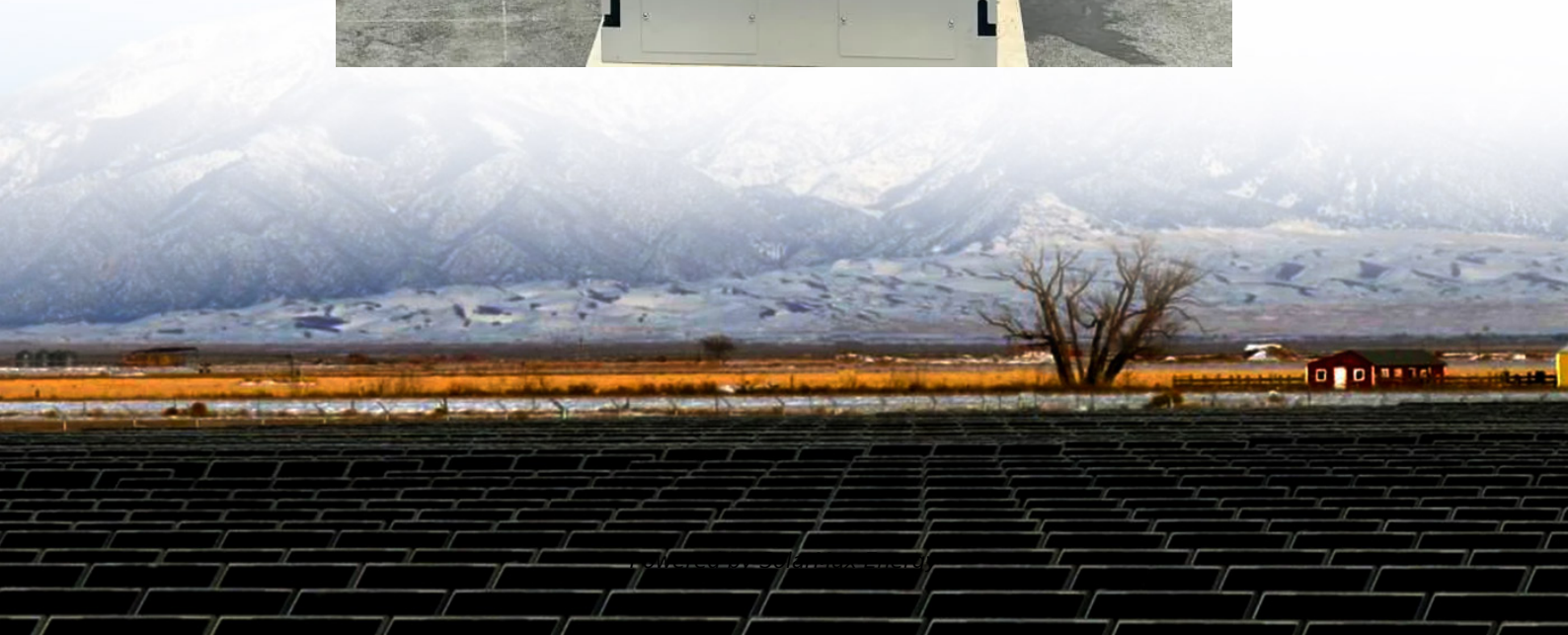


Distributed Solar Energy Storage in 2025





Overview

How much solar capacity will be added in 2025?

We expect this trend will continue in 2025, with 32.5 GW of new utility-scale solar capacity to be added. Texas (11.6 GW) and California (2.9 GW) will account for almost half of the new utility-scale solar capacity addition 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.

How many GW of battery storage will be built in 2025?

In 2025, over 31 GW of new storage capacity is expected to be built. California and Texas are the leaders in battery storage. The California Independent System Operator (CAISO) is set to add about 6 GW of storage next year, while Texas plans to add nearly 12 GW. Storage growth is important because it makes renewable energy more reliable.

Which states will add more solar capacity in 2025?

Texas (11.6 GW) and California (2.9 GW) will account for almost half of the new utility-scale solar capacity addition in 2025. We expect five other states (Indiana, Arizona, Michigan, Florida, and New York) each to account for more than 1 GW of added solar capacity in 2025 and collectively account for 7.8 GW of planned solar capacity additions.

Will battery storage set a record in 2025?

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 achieved record growth in 2024 when



power providers added 10.3 GW of new battery storage capacity.

How many new energy projects are planned in 2025?

Each part of the U.S. energy grid has its own plans for new projects in 2025. These include the following: ERCOT (Texas): 27 GW of new capacity, with only 574 MW of retirements. Major growth in solar and batteries. PJM (Mid-Atlantic and Midwest): 7 GW of new projects, mostly solar. About 3 GW of fossil fuel plants will retire.



Distributed Solar Energy Storage in 2025

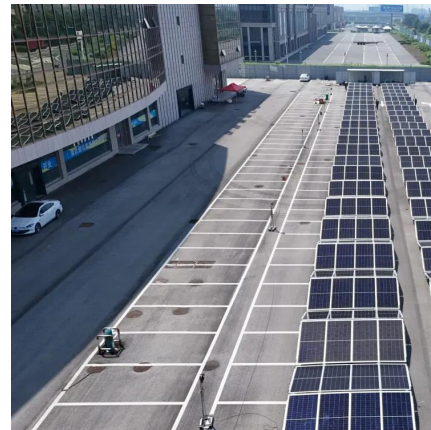


Energy storage: 5 trends to watch in 2025 , Wood Mackenzie

The scene is set for significant energy storage installation growth and technological advancements in 2025. Outlook and analysis of emerging markets, cost and supply chain risk, ...

Solar + Storage" Becomes Mainstream in 2025: How the Future ...

By 2025, solar power, combined with efficient storage, will be critical in creating a more sustainable, low-carbon energy future. In areas prone to natural disasters or grid ...



Otter Tail Power Company 2025 Distributed Solar Energy ...

OTP is seeking solar projects equal to or greater than 1 MW and equal to or less than 10 MW in size to achieve that purpose. As required by statute, the DSES capacity must ...

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 ...



[The road ahead for distributed solar in 2025](#)

As the energy industry navigates policy shifts, an aging grid, and surging demand for power, clear opportunities are emerging in 2025 to ...



[The rapid expansion of small-scale, distributed ...](#)

From pv magazine 06/23 Two of the biggest solar markets, the United States and China, expanded their distributed-generation capacity by more than 65% in ...



SEIA Announces Target of 700 GWh of U.S. Energy Storage by ...

WASHINGTON D.C. -- The Solar Energy Industries Association (SEIA) is unveiling a vision for the future of energy storage in the United States, setting an ambitious ...





[Nexamp secures US\\$340 million financing for US ...](#)

Developer Nexamp has closed a US\$340 million debt refinancing for a portfolio of distributed solar and energy storage projects in the US.



[DISTRIBUTED ENERGY IN CHINA: REVIEW AND ...](#)

In China, over the past 15 years, policies for distributed energy have greatly evolved and expanded. During the period 2020-25, current policy supports will be phased out, and ...

The Energy Storage Show

The Distributed Energy Show is co-located with The Energy Storage Show. The Energy Storage Show 2026 will be a dedicated exhibition of innovative energy ...



Solar + Storage" Becomes Mainstream in 2025: How the Future Energy

By 2025, solar power, combined with efficient storage, will be critical in creating a more sustainable, low-carbon energy future. In areas prone to natural disasters or grid ...



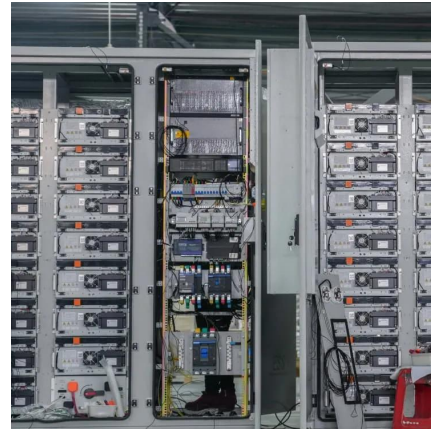
Solar Market Insight Report Q3 2025

4 days ago · 1. Key Figures The US solar industry installed 7.5 gigawatts direct current (GW dc) of capacity in Q2 2025, a 24% decline from Q2 2024 and a 28% decrease since Q1 2025. Solar ...



U.S. Solar and Energy Storage Set for Major Growth in 2025

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 ...



The state of US distributed solar-plus-storage , Wood ...

At our recent Solar & Energy Storage Summit 2024 in San Francisco, we delivered an in-depth assessment of the current state of the US ...



TotalEnergies Distributed Energy Initiatives for 2025: Key Projects

This article analyzes TotalEnergies' recent moves in the distributed energy landscape, focusing on solar, wind, and battery storage solutions, particularly after January 1, ...



[U.S. Solar and Energy Storage Set for Major Growth ...](#)

The U.S. plans to add 97 GW of power in 2025, with solar and storage leading the charge. Here's how renewables are reshaping the energy ...



[Energy Storage Roadmap: Vision for 2025](#)

First established in 2020 and founded on EPRI's mission of advancing safe, reliable, affordable, and clean energy for society, the Energy ...

[Energy storage: 5 trends to watch in 2025 , Wood ...](#)

The scene is set for significant energy storage installation growth and technological advancements in 2025. Outlook and analysis of emerging ...



[Distributed energy resource management enables a ...](#)

Utilities are increasingly required to incorporate distributed energy resources (DERs), such as rooftop solar, battery energy storage, bidirectional ...



Distributed Solar Energy Market's Decade-Long Growth Trends ...

The distributed solar energy market is experiencing robust growth, driven by increasing concerns about climate change, rising energy costs, and supportive government ...

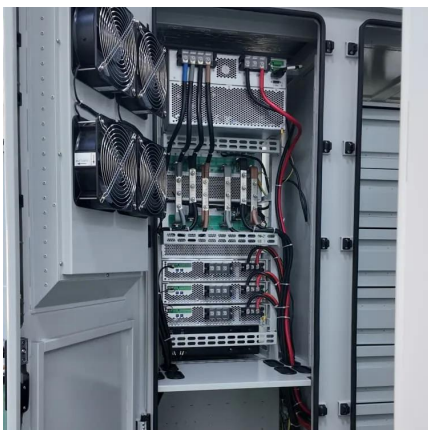


[U.S. Solar and Energy Storage Set for Major Growth ...](#)

Energy storage systems, mostly large batteries, are important because they help store solar and wind power for use when the sun isn't ...

[Insights from Wood Mackenzie's Solar & Energy ...](#)

Wood Mackenzie hosted its 18th annual Solar & Energy Storage Summit on April 23 and 24, 2025 in Denver, Colorado. The conference ...



Navigating distributed solar in 2025 amid Trump 2.0 , Solar Builder

This article explores the outlook for solar under the incoming administration, discussing how potential policy changes, including tariffs, support for domestic manufacturing, ...



Value of Distributed Solar and Storage Engagement ...

Interviewees talked about how promoting distributed solar and storage helps to promote clean energy, which is an important tool for mitigating climate change and important ...



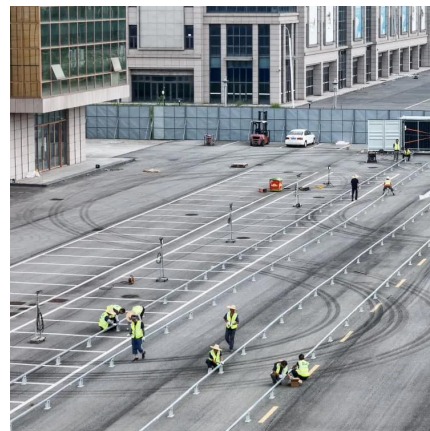
SEIA calls for 700 GWh of U.S. energy storage by 2030

The U.S. solar trade body has outlined analysis and policy recommendations for an ambitious energy storage rollout by 2030, including ...



Distributed Energy Trends to Watch in 2025

Energy Changers looks at 3 distributed energy trends to watch in 2025 that suggest promise and change for the industry.



The road ahead for distributed solar in 2025

As the energy industry navigates policy shifts, an aging grid, and surging demand for power, clear opportunities are emerging in 2025 to redefine how energy is generated, ...



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