

Energy storage installed capacity costs in 2025





Overview

How much energy storage capacity will be installed in 2025?

In the near term, the report projects that 15 GW/49 GWh of energy storage capacity will be installed across all segments in 2025. The utility-scale segment is expected to grow 22% YoY in 2025.

Why did energy storage surge in Q1 2025?

That makes Q1 2025 the biggest first quarter for energy storage in US history. The surge was led by utility-scale projects, which accounted for over 1.5 GW of the new capacity, a 57% jump compared to Q1 2024. Surging energy demand is putting the electric grid under strain,” said John Hensley, SVP of markets and policy analysis at ACP.

Will utility-scale energy storage grow 22% yy in 2025?

The utility-scale segment is expected to grow 22% YoY in 2025. As the market evolves, continued innovation, supportive policies, and strategic planning will be crucial to navigate the changing landscape and capitalize on the immense potential of energy storage in the U.S. energy transformation.

What will storage be like in 2025?

Europe saw a pivotal moment when the grid-scale segment experienced a significant surge, surpassing the distributed segment for the first time. In Latin America, momentum was built as storage deployments increased by 42%. In 2025, emerging markets for storage will be on the rise.

Will battery storage prices continue to decline in 2025?

We expect to see battery storage prices continue to decline in 2025, even as raw material prices rise, due to the oversupply of battery production. The rapid growth of battery manufacturing, particularly in China and Europe, has outpaced demand, which is exerting downward pressure on pricing.



How much does energy storage cost?

Let's analyze the numbers, the factors influencing them, and why now is the best time to invest in energy storage. \$280 - \$580 per kWh (installed cost), though of course this will vary from region to region depending on economic levels. For large containerized systems (e.g., 100 kWh or more), the cost can drop to \$180 - \$300 per kWh.



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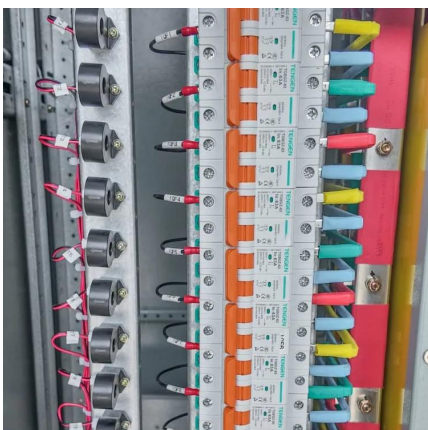


[U.S. Battery Storage Capacity Expanded 12.3 GW in ...](#)

Battery storage, seen by many as the bridge which makes intermittent renewable energies more resilient and longer duration, is ...

US energy storage set a new record in Q1 2025 but the future ...

US energy storage set a Q1 record in 2025 with 2 GW added, but looming policy changes could put that growth at serious risk.



A 2025 Update on Utility-Scale Energy Storage Procurements

While the energy storage market continues to rapidly expand, fueled by record-low battery costs and robust policy support, challenges still loom on the horizon--tariffs, shifting ...

[REPORT: Energy Storage Market Continues Strong ...](#)

Utility-scale installations would decrease by 16 GW over the next 5 years if the tax provisions are changed. In the near term, the report projects ...



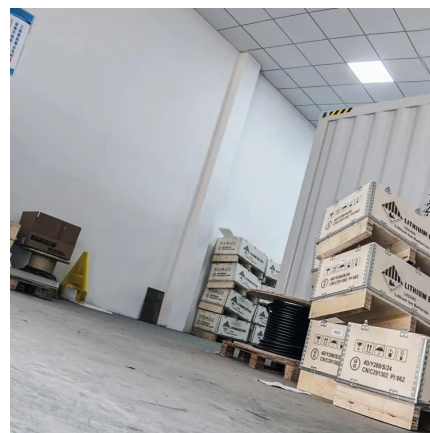
The Real Cost of Commercial Battery Energy Storage in 2025: ...

But what will the real cost of commercial energy storage systems (ESS) be in 2025? Let's analyze the numbers, the factors influencing them, and why now is the best time ...



[BNEF finds 40% year-on-year drop in BESS costs](#)

BNEF analyst Isshu Kikuma discusses trends and market dynamics impacting the cost of energy storage in 2024 with ESN Premium.



[US deployed 11.9GW of storage in 2024, 18.2GW ...](#)

PV arrays at Gemini Solar + Storage. CATL provided the BESS containers and IHI Terrasun served as system integrator. The project was one ...



[Industry News -- China Energy Storage Alliance](#)

Actively Exploring Energy Storage Application Scenarios In the era when the industry is fully shifting toward marketization, the reform of the ...



New report: European battery storage grows 15% in 2024, EU energy

In the most-likely scenario for 2025, 29.7 GWh of battery storage will be installed in Europe, representing a 36% annual growth. By 2029, the report anticipates a sixfold increase ...

[The Real Cost of Commercial Battery Energy Storage ...](#)

But what will the real cost of commercial energy storage systems (ESS) be in 2025? Let's analyze the numbers, the factors influencing them, ...



Energy Outlook 2025: Energy Storage

Driven by factors such as declining costs, the increasing supply of renewable energy, and strong government support, the global energy storage market is poised for ...



[A 2025 Update on Utility-Scale Energy Storage ...](#)

While the energy storage market continues to rapidly expand, fueled by record-low battery costs and robust policy support, challenges still ...



Energy Storage Rides a Wave of Growth but Uncertainty ...

Enactment of the Inflation Reduction Act of 2022 (IRA), which contains significant incentives for energy storage, including availability of the investment tax credit and new manufacturing ...



[Energy Storage Cost and Performance Database](#)

The U.S. Department of Energy's (DOE) Energy Storage Grand Challenge is a comprehensive program that seeks to accelerate the development, ...



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

According to Wood Mackenzie, there is 83 GWh of installed energy storage capacity in the United States, including nearly 500,000 distributed storage installations. ...





[U.S. energy storage market sees record growth in Q1 ...](#)

The U.S. utility-scale energy storage market led the way, adding 1.5 GW/4 GWh of capacity in Q1 2025 for a 57% increase over the same ...



What Is The Current Average Cost Of Energy Storage Systems In 2025

In 2025, the average energy storage cost ranges from \$200 to \$400 per kWh, with total system prices varying by technology, region, and installation factors.

[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 ...



[CNESA Global Energy Storage Market Tracking](#)

China market: Pumped Hydro Storage share falls below 50% for the first time. Non-hydro Storage accumulative installations surpass 50GW for ...



Data Centers Drive Up Electricity Demand, Causing Concern for ...

According to Dominion Energy, the state's largest utility, data centers will be the key driver for growing energy demand in Virginia over the next 15 years. The utility company ...



REPORT: Energy Storage Market Continues Strong Growth in Q1 2025

Utility-scale installations would decrease by 16 GW over the next 5 years if the tax provisions are changed. In the near term, the report projects that 15 GW/49 GWh of energy ...

[BloombergNEF: Stationary storage installations surge ...](#)

With expanding market opportunities and declining costs stationary battery energy storage installations are surging. Battery makers are ...



U.S. energy storage market sees record growth in Q1 2025

The U.S. utility-scale energy storage market led the way, adding 1.5 GW/4 GWh of capacity in Q1 2025 for a 57% increase over the same period last year. The residential storage ...



EIA

This data is collected from EIA survey respondents and does not attempt to provide rigorous economic or scenario analysis of the reasons for, or impacts of, the growth in large-scale ...



[US energy storage set a new record in Q1 2025 but ...](#)

US energy storage set a Q1 record in 2025 with 2 GW added, but looming policy changes could put that growth at serious risk.



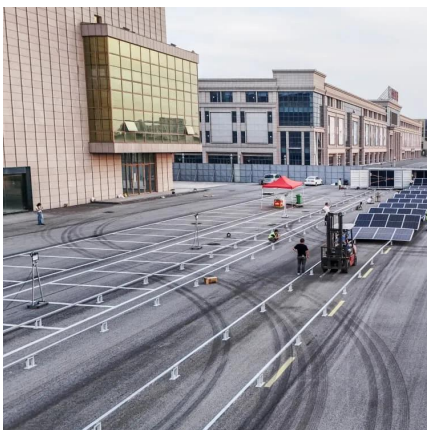
Battery Energy Storage Roadmap

This EPRI Battery Energy Storage Roadmap charts a path for advancing deployment of safe, reliable, affordable, and clean battery energy storage systems (BESS) that ...



2025 Energy Predictions: Battery Costs Fall, Energy Storage ...

Experts predict what 2025 holds for U.S. energy policy: EV battery costs fall, energy storage demand surges, carbon removal hits scale, permitting reform in D.C.





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, ...



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