

# Battery energy storage professional energy outlook





## Overview

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Their commitments aim to transition away from fossil fuels and by 2030 to triple global renewable energy capacity and double the pace of energy efficiency improvements. To facilitate the rapid deployment of new solar PV and wind power that is necessary to triple renewables, global energy storage.

The global power mix has reached a critical point, and Rystad Energy expects a peak in fossil fuels in the power sector to be imminent, with a structural shift ahead of the industry. While power demand is expected to continue to see strong growth in 2025 and beyond, the growth rate of low-carbon.

The Battery Energy Storage System Market grew from USD 56.29 billion in 2024 to USD 68.70 billion in 2025. It is expected to continue growing at a CAGR of 22.13%, reaching USD 186.90 billion by 2030. The energy storage landscape is undergoing significant transformation driven by rapid technological.

Note: Battery price is benchmark price for an LFP energy storage module in the United States Data compiled March. 1, 2023. Source: S&P Global Commodity Insights. 2023 S&P Global. Data compiled March. 1, 2023. Source: S&P Global Commodity Insights. 2023 S&P Global. Data compiled March. 1, 2023.

Energy storage is rapidly emerging as a vital component of the global energy landscape, driven by the increasing integration of renewable energy sources and the need for grid stability. As the world transitions towards cleaner energy



systems, innovative storage solutions are gaining prominence. What is the future of energy storage?

Global installed energy storage is on a steep upward trajectory. From just under 0.5 terawatts (TW) in 2024, total capacity is expected to rise ninefold to over 4 TW by 2040, driven by battery energy storage systems (BESS). Last year saw a record-breaking 200 gigawatt-hours (GWh) of new BESS projects coming online, a growth rate of 80%.

How will battery energy storage system grow in 2035?

As per FMI's analysis, the battery energy storage system will grow at a CAGR of 11.1% and reach USD 65.3 billion by 2035. The world battery energy storage system (BESS) industry experienced growth acceleration in 2024, fueled by growing grid instability, mounting renewable energy integration, and policy initiatives.

What is the future of battery storage?

Batteries account for 90% of the increase in storage in the Net Zero Emissions by 2050 (NZE) Scenario, rising 14-fold to 1 200 GW by 2030. This includes both utility-scale and behind-the-meter battery storage. Other storage technologies include pumped hydro, compressed air, flywheels and thermal storage.

Will battery storage grow in 2025?

In the United States, the 2022 introduction of the Inflation Reduction Act included an investment tax credit for stand-alone storage. Since then we have seen huge growth in the sector in the US, and we expect to see this to continue into 2025, with several large-scale battery storage projects set to complete in 2025.

How much will batteries be invested in the Nze scenario?

Investment in batteries in the NZE Scenario reaches USD 800 billion by 2030, up 400% relative to 2023. This doubles the share of batteries in total clean energy investment in seven years. Further investment is required to expand battery manufacturing capacity.

Are flow batteries a good choice for energy storage?

Flow batteries, which use liquid electrolytes, are also becoming popular for



large-scale, long-duration energy storage, particularly in grid applications. These innovations are critical as they provide diversified options for energy storage, reducing dependency on any single technology or material.



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### **BNEF New Energy Outlook 2025 Webinars , Bloomberg Professional ...**

The New Energy Outlook presents BloombergNEF's long-term energy and climate scenarios for the transition to a low-carbon economy. Anchored in real-world sector ...

### **European Energy Storage Outlook**

LFP spot price comes from the ICC Battery price database, where spot price is based on reported quotes from companies, battery cell prices could be even lower if batteries are purchased in ...

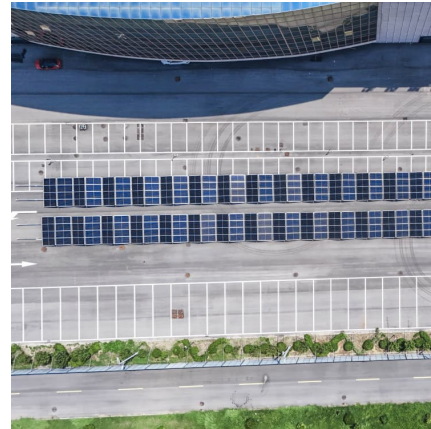


### **New Energy Outlook 2025**

Understanding this report For this edition of BNEF's New Energy Outlook, we have focused our efforts on updating the base-case Economic Transition Scenario (ETS), incorporating new ...

### [2H 2024 Energy Storage Market Outlook](#)

The global energy storage market is set for another record year. BloombergNEF expects 69GW/169GWh of additions in 2024, up 76% in gigawatt-hours from ...



### [Battery Market Outlook 2025-2030: Insights on Electric](#)

Battery Market Outlook 2025-2030: Insights on Electric Vehicles, Energy Storage and Consumer Electronics Growth Global Battery Industry ...



### **World's energy storage capacity forecast to exceed a terawatt ...**

In BloombergNEF's 2H 2023 Energy Storage Market Outlook report, the firm forecasts that global cumulative capacity will reach 1,877GWh capacity to 650GW output by ...



### [Global Energy Storage to Hit 94 GW in 2025, Says BNEF](#)

The global energy storage sector is on track for another record year in 2025 as utility-scale projects expand into new regions. BloombergNEF (BNEF) forecasts that ...





## Energy Storage Outlook

While power demand is expected to continue to see strong growth in 2025 and beyond, the growth rate of low-carbon energy sources is now close to covering the entire ...



### [Enabling renewable energy with battery energy](#)

...

These developments are propelling the market for battery energy storage systems (BESS). Battery storage is an essential enabler of renewable ...

## The Power of Batteries to Expand Renewable Energy in ...

This is making batteries--and energy storage technologies in general--a fertile sector for private sector lending. Importantly, the value provided by energy storage technologies is reflected by ...



### [US utility-scale energy storage to double, reach 65 ...](#)

The U.S. Energy Information Administration published its Short Term Energy Outlook on Tuesday, forecasting rapid growth in battery storage ...



### [Battery Energy Storage System Market Forecast 2025-2035](#)

Battery Energy Storage System Market Forecast and Outlook from 2025 to 2035 The global battery energy storage system market is anticipated to report a valuation of USD ...



### [Global energy storage: five trends to look for in 2024](#)

Also in Global energy storage: 5 trends to look for in 2024... Distributed storage will continue to increase as more households aim to hedge ...



### [Report: Global Energy Storage Set for Ninefold Surge ...](#)

The global energy landscape is entering a decisive phase, with energy storage technologies emerging as key enablers of a cleaner, more ...

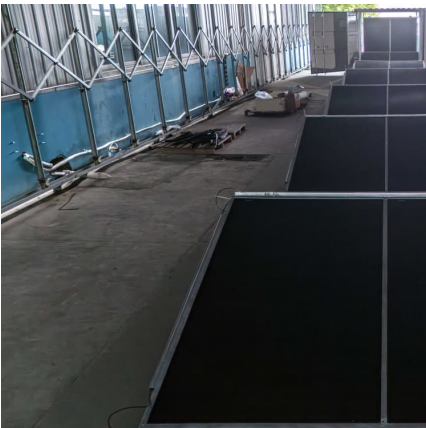
**World's energy storage capacity forecast to exceed a ...**



In BloombergNEF's 2H 2023 Energy Storage Market Outlook report, the firm forecasts that global cumulative capacity will reach 1,877GWh ...

### Top 10 Energy Storage Trends & Innovations , StartUs Insights

Discover the Top 10 Energy Storage Trends plus 20 out of 3400+ startups in the field and learn how they impact your business.



### [European Market for Battery Storage Outlook](#)

Solar & storage is a clear win-win for citizens, companies, and the grid. Prosumers can reduce their energy bills through higher self-utilisation ratios enabled by batteries, and, if price signals ...

### Charging up on battery energy storage 101, US market outlook

Request a demo Charging up on battery energy storage 101, US market outlook Battery energy storage systems (BESSs) are critical to a successful energy transition, given the intermittent ...





### European Market Outlook for Battery EU solar Storage 2025 ...

Welcome to our European Market Outlook for Battery Storage 2025-2029. Though the battery energy storage revolution continued to unfold across Europe in 2024, setting yet another ...

### Batteries and Secure Energy Transitions - Analysis

In the power sector, battery storage is the fastest growing clean energy technology on the market. The versatile nature of batteries means they ...

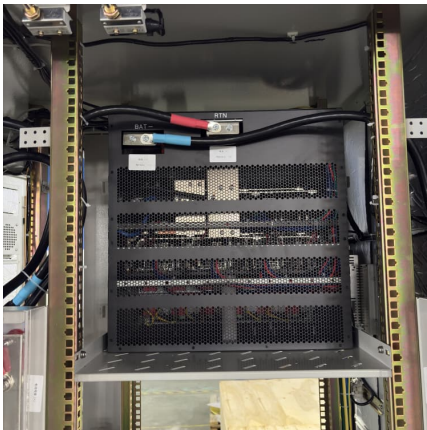


### Energy storage safety and growth outlook in 2025

A notable trend in battery energy storage systems (BESS) is the integration of early thermal runaway detection and containment mechanisms, ...

### Battery energy storage outlook

The global Battery Energy Storage market was valued at US\$ 1141.9 million in 2022 and is projected to reach US\$ 7798.2 million by 2029, at a CAGR of 31.6% during the forecast period. ...



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

MUNICH, Germany (Wednesday 7th May 2025):  
New analysis reveals another year of record installations for European\* battery storage, despite slower year-on-year growth, ...

### [Battery Energy Storage System Market Forecast 2025 ...](#)

Battery energy storage systems are becoming a strategic asset in energy transition strategies, offering value not only in grid-connected ...



### **Exploring Brazil's auction for battery energy storage projects**

1 ??· Find out more about Brazil's first battery storage auction and learn how it could strengthen overall grid reliability.





### Scaling the Residential Energy Storage Market

o Battery storage is an important enabler of the energy transition, and residential batteries are a major part of that (Figure 1). Already in Germany and Italy, over 70% of new home solar ...



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