

Lithium battery energy storage system price trend



Overview

The survey's publication closely follows the 2025 edition of BNEF's Lithium-Ion Battery Price Survey, which found a smaller 8% year-over-year decline in the average cost of lithium-ion (Li-ion) battery packs from 2024 to 2025, arriving at a global average of US\$108/kWh. Global average prices for turnkey battery storage systems fell by almost a third year-over-year, with sharp cost declines expected to continue. From ESS News While the pace of price decreases has slowed, lithium-ion battery packs have reached a new record. New York, December 9, 2025 – lithium-ion battery pack prices have dropped 8% since 2024 to a record low of \$108 per kilowatt-hour, according to latest analysis by research provider BloombergNEF (BNEF). Continued cell manufacturing overcapacity, intense competition and the ongoing shift to. As of 2024-2025, BESS costs vary significantly across different technologies, applications, and regions: Lithium-ion (NMC/LFP) utility-scale systems: \$0. 35/kWh, depending on duration, cycle frequency, electricity prices, and financing costs. Commercial & Industrial systems:. In 2026, Battery Energy Storage System pricing is no longer one market number.



Article Content

Battery Energy Storage System (BESS) Costs and LCOS in 2024

Over the past decade, lithium-ion battery costs have dropped by more than 80%, driving rapid global adoption. Subsidies, technological advancements, and economies of scale proceed to

BNEF: Lithium-ion battery pack prices fall to \$108/kWh, stationary ...

While the pace of price decreases has slowed, lithium-ion battery packs have reached a new record low in 2025. According to the latest analysis by BloombergNEF (BNEF), prices have

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Global lithium-ion battery pack prices fall to \$108/kWh,

While the pace of price decreases has slowed, lithium-ion battery packs have reached a new record low in 2025. According to the latest analysis

Electric vehicle batteries – Global EV Outlook 2025 –

Trends in battery demand Global battery demand for the energy sector hit the 1 TWh milestone in 2024 Electric cars remain the main driver of battery demand, but

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Historical and prospective lithium-ion battery cost trajectories from a ...

Recent trends indicate a slowdown, including a slight cost increase in LiBs in 2022. This study employs a high-resolution bottom-up cost model, incorporating factors such as manufacturing

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BESS costs could fall 47% by 2030, says NREL

The national laboratory is forecasting price decreases, most likely starting this year, through to 2050. Image: NREL. The US National Renewable Energy Laboratory (NREL) has updated

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Journal of Power Sources | ScienceDirect by Elsevier

- Next-generation batteries (e.g., lithium-based, sodium-based, zinc-based, and multivalent battery systems)
- Metal-air batteries, redox flow batteries, supercapacitors, and hybrid energy

What Is The Current Average Cost Of Energy Storage

Energy storage costs have declined consistently since 2022, driven by lower lithium carbonate prices, LFP chemistry adoption, and manufacturing

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Lithium-Ion Battery Pack Prices Fall to \$108 Per

BNEF expects pack prices to decrease again in 2026, based on its near-term outlook, as raw material prices face upward pressure but adoption of

Global Electricity Review 2025

Record renewables growth led by solar helped push clean power past 40% of global electricity in 2024, but heatwave-related demand spikes led to a small increase in fossil generation.

BNEF finds 40% year-on-year drop in BESS costs

Around the beginning of this year, BloombergNEF (BNEF) released its annual Battery Storage System Cost Survey, which found that global average

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Global Critical Minerals Outlook 2024 - Analysis

The Global Critical Minerals Outlook 2024 follows the IEA's inaugural review of the market in 2023. It provides a snapshot of industry developments in 2023 and

Navigating the 2026 Energy Storage Cell Price

In 2025, lithium-ion battery pack prices hit a record low of \$108/kWh across all segments, with stationary storage systems plummeting to \$70/kWh—a

BESS Pricing Trends 2026: Utility & C& I Benchmarks

Battery Energy Storage System pricing benchmarks in this article are grounded in widely cited industry and standards sources from 2018-2024, with 2026 interpretation based on

New Record Lows for Battery Prices | BloombergNEF

The average pack price for stationary storage systems dropped to \$70/kWh, 45% lower than in 2024. This is the sharpest drop across all segments and makes stationary storage the lowest

Battery storage system prices continue to fall sharply,

Global average prices for battery storage systems fell by almost a third year-over-year, with sharp cost declines expected to continue.

How Lithium Battery Prices Are Changing In 2025

Solar storage systems use lithium-ion batteries to store energy from solar panels for later use. Battery prices for this segment have declined

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