

# Lithium battery energy storage cost per kilowatt-hour

In today's market, the installed cost of a commercial lithium battery energy storage system -- including the battery pack, Battery Management System (BMS), Power Conversion System ...

The cost of battery storage per kWh ranges from \$700 to \$1,300 installed for residential systems and \$125 to \$334 for utility-scale projects as of late 2025. Battery pack prices alone have ...

New York - December 9, 2025 - According to BloombergNEF's 2025 Lithium-Ion Battery Price Survey, average pack prices have fallen to a record low of \$108 per kilowatt-hour, marking an 8% decline ...

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 staggering 45% drop from 2024 levels.

According to BNEF, battery pack prices for stationary storage fell to \$70/kWh in 2025, a 45% decrease from 2024. This represents the steepest decline among all lithium-ion battery use ...

In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration systems. The projections are developed from an ...

All-in BESS projects now cost just \$125/kWh as of October 2025. Battery storage has moved past its infancy, driven by rapid factory scale-up, fierce competition and oversupply that has ...

The average price of lithium-ion battery packs stands at \$152 per kilowatt-hour (kWh), reflecting a 7% increase since 2021. This rise, albeit slight from 2022's \$151/kWh, underscores the ongoing ...

As supply chains become more localized and recycling programs for lithium batteries begin to scale, we expect the price per kWh battery storage to find a new equilibrium. This stability is ...

For large containerized systems (e.g., 100 kWh or more), the cost can drop to \$180 - \$300 per kWh. A standard 100 kWh system can cost between \$25,000 and \$50,000, depending on ...

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