

Price of battery cells for energy storage power stations





Overview

How much does a battery energy storage system cost?

The battery energy storage system typically accounts for approximately 70% of the total project CAPEX. Recent estimates from KPMG and the World Energy Council suggest the current market value for a battery energy storage total system costs is around £680/kWh (€900-€3500/kWh, or approximately £705/kWh at the bottom end of the estimate).

How much does a lithium carbonate battery cost?

Similarly, the price for lithium carbonate has fallen from a high of approximately \$70,000 per metric ton to well below \$15,000 in 2024. This article focuses primarily on two of the most sought-after Li-ion battery cathode chemistries in the automotive industry today — NCM811 and lithium iron phosphate (LFP) batteries.

How will battery price issues affect the automotive supply chain?

These battery price issues could impact the overall automotive supply chain. The price of LFP cells is over 20% lower than nickel cobalt manganese (NCM) cells. The average price of an LFP cell was just under \$60/kWh in 2024.

How much does a ncm811 battery cost?

Even in Greater China, the cost of an NCM811 battery pack is about \$103/kWh. The price of battery metals will likely increase in the longer term; however, due to economy of scale and efficiency gains, the cost of manufacturing will be lowered.



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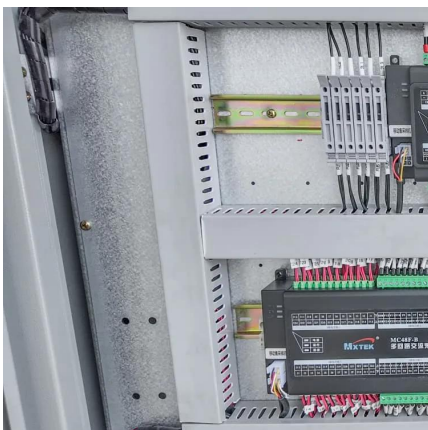
According to BNEF, battery pack prices for stationary storage fell to \$70/kWh in 2025, a 45% decrease from 2024. This represents the steepest decline among all lithium-ion ...

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