

# Energy storage installation cost cost per kilowatt-hour

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In the United States, utility-scale energy storage projects can achieve costs below \$150 per kWh, whereas small residential systems typically exceed \$300 per kWh.

This guide presents cost and price ranges in USD to help plan a budget and compare quotes. The information focuses on installed costs, including hardware, labor, and soft costs.

Additional storage technologies will be added as representative cost and performance metrics are verified. The interactive figure below presents results on the total installed ESS cost ranges by ...

Figure ES-2 shows the overall capital cost for a 4-hour battery system based on those projections, with storage costs of \$147/kWh, \$243/kWh, and \$339/kWh in 2035 and \$108/kWh, \$178/kWh, and ...

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 ...

As of early 2026, the global average installed price for high quality off grid systems has stabilized between \$350 and \$550 per kilowatt hour. This figure includes the battery packs, industrial ...

Across different system sizes, durations, and configurations, most commercial and industrial energy storage projects end up in a typical installed range of about USD \$280-\$580 per kWh.

In 2025, the typical cost of commercial lithium battery energy storage systems, including the battery, battery management system (BMS), inverter (PCS), and installation, ranges from \$280 to ...

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.



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