

# Battery Energy Storage Cost per kWh



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### Energy Storage Cost and Performance Database

In support of this challenge, PNNL is applying its rich history of battery research and development to provide DOE and industry with a guide to current energy storage costs and performance metrics for

### [Cost Projections for Utility-Scale Battery Storage: 2025 Update](#)

The projections are developed from an analysis of recent publications that include utility-scale storage costs. The suite of publications demonstrates wide variation in projected cost reductions for battery



### How cheap is battery storage?

This results in costs ranging from as little as \$30/kWh with inexpensive grid connection to \$100/kWh in extreme cases, with more typical values around \$50/kWh, according to experts.

### [What Is The Current Average Cost Of Energy Storage Systems In 2025](#)

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.



### [Battery Storage Costs in 2025: Analyzing the Price per kWh for](#)



In recent years, the price per kWh battery storage has seen a significant decline due to improvements in energy density and more efficient manufacturing processes.

### [The Real Cost of Commercial Battery Energy Storage in 2026: What](#)

What is the average cost of commercial battery energy storage in 2025? In 2025, the typical cost of commercial lithium battery energy storage systems, including the battery, battery



### **Utility-Scale Battery Storage Cost Per KWH 2026**

Buyers typically pay a broad range for utility-scale battery storage, driven by system size, chemistry, and project complexity. The price per kWh installed reflects balance of hardware,

### [Cost Projections for Utility-Scale Battery Storage: 2025 Update](#)

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



### **Cost of Battery Storage Per kWh: 2026 Pricing Guide**

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

## **BESS Costs Analysis: Understanding the True Costs of Battery**

To better understand BESS costs, it's useful to look at the cost per kilowatt-hour (kWh) stored. As of recent data, the average cost of a BESS is approximately \$400-\$600 per kWh.



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