

# The cost of energy storage battery factories



## Overview

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In 2025, the global average price of a turnkey battery energy storage system (BESS) is US\$117/kWh, according to the Energy Storage Systems Cost Survey 2025 from BloombergNEF (BNEF), published last week (10 December). That was a 31% decline from 2024 numbers. DOE's Energy Storage Grand Challenge supports detailed cost and performance analysis for a variety of energy storage technologies to accelerate their development and deployment. The U.S. Factors driving the decline include cell manufacturing overcapacity, economies of scale, low metal and component prices, adoption of lower-cost lithium-iron-phosphate (LFP). Battery energy storage costs have reached a historic turning point, with new research from clean energy think tank Ember revealing that storing electricity now costs just \$65 per megawatt-hour (MWh) in global markets outside China and the United States. This dramatic cost reduction is transforming. This makes the cost of battery storage a fundamental metric for business continuity.

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

But what will the real cost of commercial energy storage systems (ESS) be in 2026? Let's analyze the numbers, the factors influencing them, and why now is the best time to invest in energy ...

### [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 ...



### [Ember Report Reveals Utility-Scale Battery Storage Now Costs Just ...](#)

Battery energy storage costs have reached a historic turning point, with new research from clean energy think tank Ember revealing that storing electricity now costs just \$65 per megawatt ...

### [Battery storage system prices continue to fall](#)

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



[Energy storage in 2025: Year in review](#)

Despite an increase in battery metal costs, global average prices for battery storage systems continued to tumble in 2025.

[How The Cost of Battery Storage Boosts Factory Profits in 2026](#)

Conclusion The factories that thrive in the late 2020s will be those that treat energy as a strategic asset rather than a utility expense. Investing in an Energy Storage System is not a consumption activity; it ...



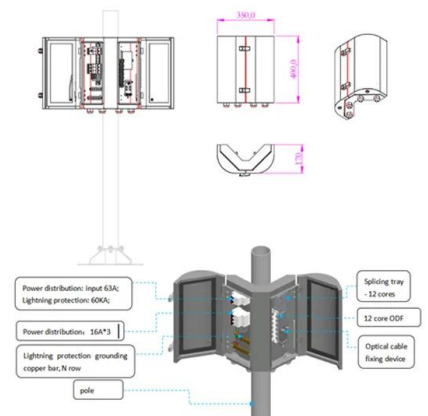
[Battery Storage Costs in 2025: Analyzing the Price per kWh for ...](#)

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. For a commercial or ...



### [How cheap is battery storage? , Ember](#)

Battery storage has moved past its infancy, driven by rapid factory scale-up, fierce competition and oversupply that has pushed costs sharply down.



### [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 ...

### [The Real Cost of Commercial Battery Energy Storage in 2025 , GSL ...](#)

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 ...



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