



# Capital Energy Storage Battery BESS Price

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As of most recent estimates, the cost of a BESS by MW is between \$200,000 and \$450,000, varying by location, system size, and market conditions.

According to Ember's December 11, 2025 report "How cheap is battery storage?", the all-in capital expenditure for large, long-duration utility ...

Battery Energy Storage Systems (BESS) are now central to the effective integration of renewable energy sources. As prices evolve, the ...

As of 2024, the average price for a utility-scale BESS is approximately \$148/kWh<sup>1</sup>. For a 1 GWh system, this translates to \$148 million. It's important to note that this cost includes not just the ...

Across global markets outside China and the United States, the total capex to build a large, long-duration utility-scale BESS project is around \$125/kWh, comprising \$75/kWh for the core ...

The capital cost for long-duration (4 hours or more) utility-scale battery energy storage systems (BESS) in markets outside China and the U.S. ...

Base year installed capital costs for BESSs decrease with duration (for direct storage, measured in \$/kWh) whereas system costs (in \$/kW) increase. This inverse behavior is observed for all energy ...

The US National Renewable Energy Laboratory (NREL) has updated its long-term lithium-ion battery energy storage system (BESS) costs ...

Additional storage technologies will be added as representative cost and performance metrics are verified. The interactive figure below presents results ...



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The price is the expected installed capital cost of an energy storage system. Because the capital cost of these systems will vary depending on the power (kW) and energy (kWh) rating of the system, a ...

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