

# Energy storage system equipment price list drawing

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The 2020 Cost and Performance Assessment provided installed costs for six energy storage technologies: lithium-ion (Li-ion) batteries, lead-acid batteries, vanadium redox flow batteries, ...

Input data for this work were derived from the energy storage pricing surveys supported by the DOE Office of Electricity Energy Storage Program under the guidance of Dr. Imre Gyuk.

Future efforts will continue to expand the list of energy storage technologies covered while providing any significant updates to cost and performance data for previous technologies.

**Energy Storage System (ESS):** The complete equipment list for an AC-level energy storage system, comprising all the equipment up to, but not including, the step-up transformer.

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.

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.

This guide breaks down residential, commercial, and utility-scale ESS costs, analyzes key price drivers, and reveals how new technologies are reshaping energy storage economics.

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