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100MW solar energy storage cost in 2025

Overview

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 analysis of recent publications that include utility-scale storage costs.

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Comprehensive analysis of energy storage system costs in 2025. Learn how battery prices are falling and what to expect for residential, commercial, and industrial systems.

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.

The U.S. Department of Energy’s solar office and its national laboratory partners analyze cost data for U.S. solar photovoltaic systems to develop cost benchmarks to measure progress towards goals and guide research and development programs.

Today, in 2025, it’s about $3/watt before tax credits or incentives—thanks to economies of scale and improvements in silicon PV manufacturing. Battery storage costs have also plummeted in the last 10 years. In 2010, batteries cost $1000-$1500/kWh.

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