

# How much does photovoltaic energy storage cost per watt-hour

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As of 2025, prices range from \$0.48 to \$1.86 per watt-hour (Wh) for utility-scale projects, while residential systems hover around \$1,000-\$1,500 per kWh [4] [6] [9].

When will "photovoltaic + storage" systems achieve true cost parity with fossil fuels. Recent data shows storage costs hovering around \$0.08-\$0.12/Wh ( $\pm 0.6-0.8$ /Wh), but regional disparities create a ...

The benchmarks in this report are bottom-up cost estimates of all major inputs to PV and energy storage system installations. Bottom-up costs are based on national averages and do not ...

NLR analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has grown ...

We show bottom-up manufacturing analyses for modules, inverters, and energy storage components, and we model unique costs related to community solar installations. We also account for PV ...

Evaluating each battery type involves understanding their energy density, depth of discharge, and lifecycle considerations that ensure users select a storage solution that aligns with ...

Additional storage technologies will be added as representative cost and performance metrics are verified. The interactive figure below presents results on the total installed ESS cost ranges by ...

The average cost per unit of energy generated across the lifetime of a new power plant. This data is expressed in US dollars per kilowatt-hour. It is adjusted for inflation but does not account for ...

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