



# Energy storage system unit price

What are the different types of energy storage costs?

The cost categories used in the report extend across all energy storage technologies to allow ease of data comparison. Direct costs correspond to equipment capital and installation, while indirect costs include EPC fee and project development, which include permitting, preliminary engineering design, and the owner's engineer and financing costs.

How much does a 5 kW storage system cost?

23 This report is available at no cost from the National Renewable Energy Laboratory (NREL) at As demonstrated in Figure 13, the kit for a 5-kW/12.5-kWh storage system costs approximately \$6,406-\$6,662 with a total installed cost of \$15,852 (DC-coupled) to \$16,715 (AC-coupled).

What are energy storage cost metrics?

Cost metrics are approached from the viewpoint of the final downstream entity in the energy storage project, ultimately representing the final project cost. This framework helps eliminate current inconsistencies associated with specific cost categories (e.g., energy storage racks vs. energy storage modules).

How much does a 600 kW energy storage system cost?

Figure 19 shows the resulting costs in nameplate and usable capacity (\$/kWh) for 600-kW Li-ion energy storage systems, which vary from \$481/kWh-usable (4-hour duration) to \$2,154/kWh-usable (0.5-hour duration). The battery cabinet cost accounts for 47% of total system cost in the 4-hour system but only 19% in the 0.5-hour system.

What is the cost of a stand-alone energy storage system?

19 The total cost of a stand-alone utility-scale energy storage system with a power rating of P(kW) and storage duration H(hrs) can also be represented using the following linear equation: Total System Cost = \$311.28\*P + \$300.24\*P\*H with an R squared value of 99.8. 40

Are energy storage systems cost estimates accurate?

The cost estimates provided in the report are not intended to be exact numbers but reflect a representative cost based on ranges provided by various sources for the examined technologies. The analysis was done for energy storage systems (ESSs) across various power levels and energy-to-power ratios.

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Despite geopolitical unrest, the global energy storage system market doubled in 2023 by gigawatt-hours installed. Dan Shreve of Clean Energy Associates looks at the pricing dynamics helping propel storage to ever

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installed prices and where there are opportunities for price reductions. The benchmarks are also used to project future system prices, provide transparency, and facilitate engagement with ...

Fig. 1: A comparison of unit price to unit density for a variety of materials. [1] (Image Source: S. Blinkman)  
In the lifecycle of energy, where energy generation and consumption power the ...

metrics determine the average price that a unit of energy output would need to be sold at to cover all project costs inclusive of taxes, financing, operations and maintenance, and others. ...

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