

## **Energy Storage Battery Cabinet Cost Analysis Table**

What are base year costs for utility-scale battery energy storage systems?

Base year costs for utility-scale battery energy storage systems (BESSs) are based on a bottom-up cost modelusing the data and methodology for utility-scale BESS in (Ramasamy et al.,2023). The bottom-up BESS model accounts for major components, including the LIB pack, the inverter, and the balance of system (BOS) needed for the installation.

How much does a non-battery energy storage system cost?

Non-battery systems, on the other hand, range considerably more depending on duration. Looking at 100 MW systems, at a 2-hour duration, gravity-based energy storage is estimated to be over \$1,100/kWh but drops to approximately \$200/kWh at 100 hours.

How many MW is a battery energy storage system?

For battery energy storage systems (BESS), the analysis was done for systems with rated power of 1,10, and 100 megawatts(MW), with duration of 2,4,6,8, and 10 hours. For PSH,100 and 1,000 MW systems at 4- and 10-hour durations were considered. For CAES, in addition to these power and duration levels, 10,000 MW was also considered.

How much does gravity based energy storage cost?

Looking at 100 MW systems, at a 2-hour duration, gravity-based energy storage is estimated to be over \$1,100/kWhbut drops to approximately \$200/kWh at 100 hours. Li-ion LFP offers the lowest installed cost (\$/kWh) for battery systems across many of the power capacity and energy duration combinations.

Which energy storage technologies are included in the 2020 cost and performance assessment?

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, pumped storage hydro, compressed-air energy storage, and hydrogen energy storage.

Are energy storage systems cost estimates accurate?

The cost estimates provided in the report are not intended to be exact numbersbut 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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