

ContainerPower Energy Solutions

Energy storage project investment costs



Overview

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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.

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.

Foundational to these efforts is the need to fully understand the current cost structure of energy storage technologies and identify the research and development opportunities that can impact further cost reductions.

Understanding capital and operating expenditures is paramount; metrics such as the Levelized Cost of Reserve (LCOR) are essential for evaluating the economic viability of energy storage solutions.

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