

Cost of Grid-Connected Energy Storage Cabinets for US Substations



Overview

The cost of a grid-connected energy storage power station typically ranges from \$400 to \$1,000 per kWh of installed capacity, varying significantly based on technology types and regional factors. The project team would like to acknowledge the support, guidance, and management of Paul Spitsen from the DOE Office of Strategic Analysis, ESGC Policy. The Department of Energy's (DOE) Energy Storage Grand Challenge (ESGC) is a comprehensive program to accelerate the development, commercialization, and utilization of next-generation energy storage technologies and sustain American global leadership in energy storage. The projections are developed from an analysis of recent publications that include utility-scale storage costs. Higher initial investments may be offset by long-term savings on energy costs.

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Future efforts will continue to expand the list of energy storage technologies covered while providing any significant updates to cost and performance data for previous technologies.

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Due to intra-annual uncertainty, the reported costs may have changed by the time this report was released. The cost estimates provided in the report are not intended to be exact numbers but reflect

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