



National development energy storage charging

How much does national charging infrastructure cost?

This report estimates that a \$53-\$127-billion cumulative national charging infrastructure investment, including \$31-\$55 billion for publicly accessible charging infrastructure, is necessary to support charging infrastructure needs under the baseline scenario.

Will energy storage help a modern power grid?

Alliance for Clean Energy New York Executive Director Marguerite Wells said, "Energy storage will provide many benefits to a modern power grid, including the ability to fully harness our most cost-effective energy solutions in wind and solar."

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 model using 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 can we address equitable charging infrastructure deployment?

A broader set of analytic tools that directly address equitable charging infrastructure deployment is being developed by the Joint Office United Support for Transportation (JUST) Lab Consortium with leadership from Argonne National Laboratory, Lawrence Berkeley National Laboratory, and NREL (Joint Office of Energy and Transportation 2023).

How much public investment has been made in EV charging infrastructure?

An additional \$3.0 billion in public investment has been made across all levels of government, led by programs from the state of California. Atlas Public Policy's EV Hub tracks domestic investments in PEV charging infrastructure.

How much storage does a national grid need?

As the national grid transitions away from fossil fuels to renewables, the amount of LDES (>10 hours of storage) will be needed. For very high (i.e., >80%) of renewables, storage durations of >120 hours, often called seasonal storage, will be needed.



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