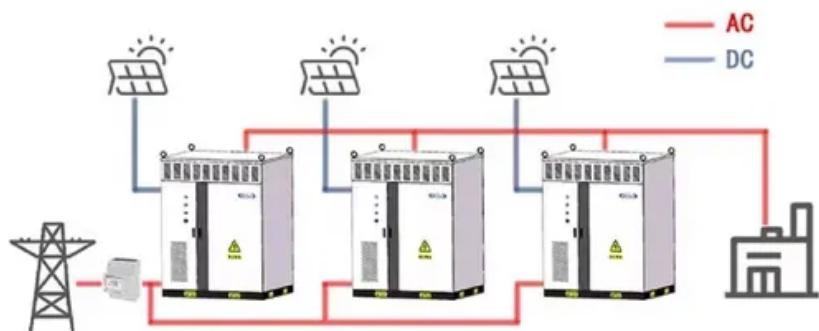


American energy-saving new energy storage application

WORKING PRINCIPLE



Overview

Why are energy storage resources important?

Energy storage resources have become an increasingly important component of the energy mix as traditional fossil fuel baseload energy resources transition to renewable energy sources. Currently 23 states, plus the District of Columbia and Puerto Rico, have 100% clean energy goals in place.

What are the applications of energy storage technology?

Energy storage technologies have various applications in daily life including home energy storage, grid balancing, and powering electric vehicles. Some of the main applications are: Mechanical energy storage system Pumped storage utilizes two water reservoirs at varying heights for energy storage.

What are energy storage technologies?

Energy storage technologies have the unique capabilities to keep the lights on when the power grid is under stress. In both Texas and California, energy storage technologies have prevented black outs during significant heatwaves—keeping people safe, power affordable, and the power on for businesses.

Why is DOE investing in energy storage?

The underlying motivation for DOE's strategic investment in energy storage is to ensure that the American people will have access to energy storage innovations that enable resilient, flexible, affordable, and secure energy systems and supply, for everyone, everywhere.

How much do energy storage projects cost?

America's current grid-scale energy storage projects represent \$21 billion of capital investment Energy storage technologies have the unique capabilities to keep the lights on when the power grid is under stress.

Does the energy storage strategic plan address new policy actions?

This SRM does not address new policy actions, nor does it specify budgets and resources for future activities. This Energy Storage SRM responds to the Energy Storage Strategic Plan periodic update requirement of the Better Energy Storage Technology (BEST) section of the Energy Policy Act of 2020 (42 U.S.C. § 17232 (b) (5)).

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