



Hvac equipment for large energy storage projects

What is thermal energy storage?

Thermal energy storage (TES) is one of several approaches to support the electrification and decarbonization of buildings. To electrify buildings efficiently, electrically powered heating, ventilation, and air conditioning (HVAC) equipment such as a heat pump can be integrated with TES systems.

Is space heating and cooling a viable energy storage solution?

Space heating and cooling account for up to 40% of the energy used in commercial buildings.¹ Aligning this energy consumption with renewable energy generation through practical and viable energy storage solutions will be critical to achieving 100% clean energy by 2050.

What types of facilities use HVAC & water heating technologies?

Residential, commercial, and industrial facilities use a wide variety of HVAC and water heating technologies.

What is a cool TES energy storage media?

The most common Cool TES energy storage media are chilled water, other low-temperature fluids (e.g., water with an additive to lower freezing point), ice, or some other phase change material. Cool TES technologies shift electricity use by decoupling chiller operation from instantaneous loads.

Are thermal energy storage systems a good investment?

Thermal energy storage systems can help avoid the need for electrical infrastructure upgrades and may qualify for federal incentives and utility rebates, making them a cost-effective solution for both new construction and existing buildings.

Can thermal energy storage be used in buildings?

Through industry partnerships, NREL researchers address technical barriers to deployment and widespread adoption of thermal energy storage in buildings. In the United States, buildings consume approximately 39% of all primary energy and 74% of all electricity.



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