

SolarTech Power Solutions

Medium and low temperature energy storage project



Overview

What is the Technology Strategy assessment on thermal energy storage?

This technology strategy assessment on thermal energy storage, released as part of the Long-Duration Storage Shot, contains the findings from the Storage Innovations (SI) 2030 strategic initiative.

What are sensible and latent thermal energy storage?

Sensible, latent, and thermochemical energy storages for different temperatures ranges are investigated with a current special focus on sensible and latent thermal energy storages. Thermochemical heat storage is a technology under development with potentially high-energy densities.

What is thermal energy storage?

Thermal energy storage in buildings can be used to adjust the timing of electricity demand to better match intermittent supply and to satisfy distribution constraints. TES for building heating and cooling applications predominantly utilizes sensible and latent heat technologies at low temperatures (i.e., near room temperature).

What is thermochemical heat storage?

Thermochemical heat storage is a technology under development with potentially high-energy densities. The binding energy of a working pair, for example, a hydrating salt and water, is used for thermal energy storage in different variants (liquid/solid, open/closed) with strong technological links to adsorption and absorption chillers.

Which components are developed for latent thermal energy storage systems?

Furthermore, components for latent thermal energy storage systems are developed including macroencapsulated PCM and immersed heat exchanger configurations. For material development the following key points can be concluded.

How is energy stored in sensible heat?

In sensible heat, energy is stored by raising the temperature of a medium. The amount of energy stored is proportional to the physical properties of the storage material, including density, volume, specific heat, and temperature change of the storage material .

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