

Apr 28, 2025 This article designs a high-altitude border guard post that can fully utilize the heat absorbed by solar collectors to continuously store thermal energy during the day and stably ?

May 1, 2022 With proper identification of the application's requirement and based on the techno-economic, and environmental impact investigations of energy storage devices, the use of a ?

Nov 25, 2023 Abstract Latent heat thermal energy storage (LHTES) is often employed in solar energy storage systems to improve efficiency. This method uses phase change materials ?

Jul 1, 2025 This paper systematically reviews the latest research progress in phase change thermal energy storage from three perspectives: the characteristics and thermal property ?

Jul 16, 2025 Technical Terms Phase Change Material (PCM): A substance capable of storing and releasing thermal energy during a phase transition, typically from solid to liquid and vice ?

May 4, 2025 This device is a spherical encapsulated paraffin phase change heat exchanger device (stainless steel shell diameter: 80mm),By conduct-ing thermal storage and release ?

Aug 27, 2018 ??? : ????, ????, ???? Abstract: Phase change heat storage has become a research hot spot in recent years because of high storage capacity per unit volume, ?

Mar 31, 2025 Latent heat thermal energy storage technology has emerged as a critical solution for medium to long-term energy storage in renewable energy applications. This study presents ?

Aug 6, 2024 Peng Wang,¹ Xuemei Diao,² and Xiao Chen^{2,*} Conventional phase change materials struggle with long-duration thermal energy storage and controllable latent heat ?

Mar 1, 2025 Cold thermal energy storage systems, especially those utilizing phase change materials, offer a promising solution to mitigate these challenges. This study presents a ?

Jan 15, 2025 Thermal energy storage (TES) with phase change materials (PCM) was applied as useful engineering solution to reduce the gap between energy supply and energy demand in ?

Jan 22, 2025 Abstract Phase change energy storage (PCES) materials have attracted considerable interest because of their capacity to store and release thermal energy by ?

Sep 1, 2024 Highly conductive solid-solid phase change composites and devices enhanced by aligned graphite networks for solar/electro-thermal energy storage

Nov 2, 2023 Phase change composite based on protic ionic liquids 2-hydroxyethylammonium lactate and stearic acid for thermal energy storage systems at intermediate temperatures ?

May 1, 2020 Abstract This work concerns performance enhancement of phase change material (PCM) based thermal energy storage (TES) devices for air-conditioning applications. Such ?

Feb 11, 2021 Phase change materials are promising for thermal energy storage yet their practical potential is challenging to assess. Here, using an analogy with batteries, Woods et al. ?

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