



In recent years, there has been a substantial increase in the usage of portable cold storage technologies, as the demand for flexible and mobile solutions for storing ...

Phase change materials (PCMs) are crucial in cold storage technology, yet their application in low-temperature environments remains underexplored due to the limited availability of suitable ...

As an emerging energy storage technology, the application scenarios of phase change cooling storage technology are becoming increasingly diverse, while the phase change cold storage ...

With the fast-rising demand for cold energy, cold thermal energy storage is becoming very appealing. In this paper, a review of TES for cold energy storage consisting of ...

In the energy storage stage, the cold thermal energy is released from the CTES, while the ASU load increases, which increases the rate of air liquefaction and realizes the ...

This study aims to investigate the possibility of using natural cold energy to establish a negative temperature space in northeast China by combining previous studies on ...

????????????????? ??????????????????(??????)??,? 1,500 ?,????????? 2025 ??,? 3,000 ?,????????? 2030 ? ...

In places where the power grid is supplied by more and more solar generation, there is increasing need for technologies or loads that are able to utilize and/or store the greater quantities of ...

The replacement of environmentally friendly refrigerants and the development of energy storage technology can effectively address global warming and energy shortages. A ...

This paper comprehensively reviews the research activities about cold thermal energy storage technologies at sub-zero temperatures (from around  $-270\text{ }^{\circ}\text{C}$  to below  $0\text{ }^{\circ}\text{C}$ ). A ...

Based on the closest packing principle of the crystal structure, three configurations of the spheres in cylindrical packed beds are presented in this study: aligned density layer (ADL), face ...

To increase the round-trip efficiency of liquid air energy storage systems, it is crucial to use cold thermal energy storage. This involves storing the cold energy recovered from the liquid air ...

Liquid air energy storage (LAES) is a large-scale energy storage technology with extensive demand and promising application prospects. The packed bed for cold energy ...

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