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Title: Solar energy cross-season heat storage heating

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Thus, developing large-scale cross-seasonal thermal storage systems is an effective solution to improve the thermal efficiency and solar energy utilization of solar heating systems.

In view of the two aspects mentioned above, this study proposes the novel utilization of abandoned mine shaft as a slender water tank for solar cross-seasonal thermal storage to meet the ...

According to the climate characteristics and indoor load demands in such regions, a cross-seasonal energy storage compound heating system composed of solar energy, step-change energy...

This study integrates cascaded phase change with a cross-seasonal heat storage system aimed at achieving low-carbon heating. The simulation analyzes heat distribution and temperature changes ...

Clean heating refers to utilize solar energy, geothermal energy, biomass energy, etc. for heating (as shown in Fig. 2) the past two years, the Chinese government has issued the &quot;13th five-year ...

In this paper, a proposed central heating project in Alpine region is selected for cross-season solar thermal storage heating system. After establishing mathematical model, three different ...

This paper analyzes a techno-economic comparison between a solar-air energy heating system (System 1) and a geothermal-air energy heating system (System 2) designed for Litang.

In the high-cold and high-altitude area in western China, due to the abundant solar energy and hydropower resources, the use of electric auxiliary cross-season solar heat storage ...

Utilizing phase change materials with high energy density and stable heat output effectively improves energy storage efficiency. This study integrates cascaded phase change with a cross-seasonal heat ...



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