Principle of cross-season solar energy storage

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...

The full use of renewable energy sources such as solar energy to meet the various energy supply needs of buildings is now a research focus and an industry development trend, as energy consumption has ...

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 ...

Based on the principle of absorption energy storage, this study designs an interseasonal solar absorption energy storage heating system (ISAES). The system stores summer solar energy for ...

In this article, the authors applied a CSHSHS in a typical town in the Sichuan West Plateau and analysed and compared three operation strategies: heating storage priority control ...

The solar-driven cascaded phase change heat storage cross-seasonal heating system proposed in this study focuses on remote plateau areas with abundant solar radiation resources, where...

Some drying processes require burning wood and coal and electric heating, which often leads to environmental pollution and high energy consumption, and it is especially important to use ...

This paper can offer reference and guidance for cross-season solar thermal storage system operation.

Based on the model, the feasibility of utilizing a coal mine underground reservoir for cross-seasonal thermal energy storage was evaluated, and the system"s thermal storage performance was ...

The hybrid control mode can effectively reduce the electric auxiliary capacity and the power consumption indicators in the heating season at the same time, which has obvious advantages. This paper can ...

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