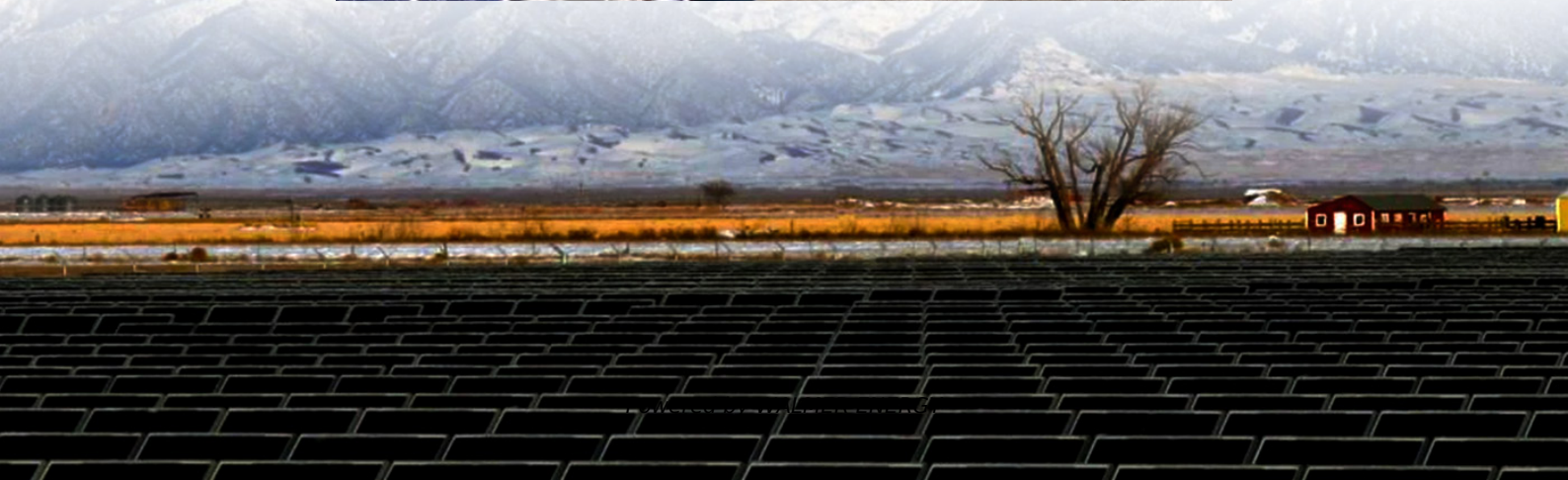


Composition of the temperature control system of the energy storage power station





Overview

What is the electro-thermal coupling model of energy storage power station?

Subsequently, the electro-thermal coupling model of the energy storage station is established. The dual Kalman filter algorithm is utilized to simulate and validate the electric-thermal coupling model of the energy storage power station, considering ontological factors such as battery voltage, current, and temperature.

How much energy does a container storage temperature control system use?

The average daily energy consumption of the conventional air conditioning is 20.8 % in battery charging and discharging mode and 58.4 % in standby mode. The proposed container energy storage temperature control system has an average daily energy consumption of 30.1 % in battery charging and discharging mode and 39.8 % in standby mode. Fig. 10.

How much energy does a temperature control system use?

The average energy consumption of the proposed temperature control system accounts for about 3.5 % of the energy storage, in which the average energy consumption of charging mode and discharge mode accounts for 1.06 %, and the energy consumption of standby mode accounts for 1.41 %. Fig. 7.

What is the energy saving rate of composite temperature control system?

In Hohhot, the ACCOP of conventional air-cooled air conditioning is 4.1, while the proposed composite temperature control system reaches 5.1, and the energy saving rate is close to 25 %. Even if the proposed composite temperature control system is adopted in Guangzhou, the energy saving rate is still more than 5 %. Fig. 5.



Composition of the temperature control system of the energy storage

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