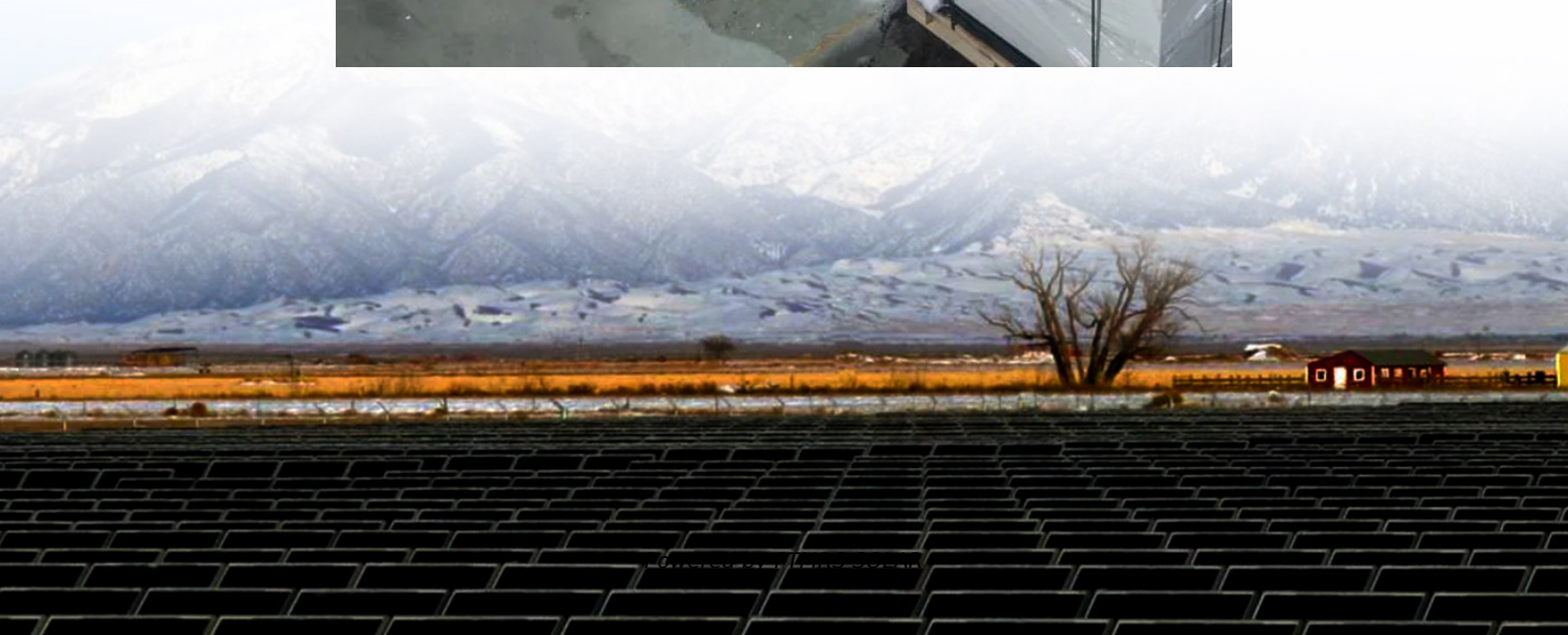


Solar energy storage cabinet energy saving analysis





Overview

How much energy is saved by 1000 cabinets?

Maximum energy saving reaches 90.8 GWh/year with 1000 cabinets. Maximum net present value reaches 998 million CNY. Huge energy consumption of data centers has become a concern with the demand for greater computing power. Indirect liquid cooling is currently the main cooling method for the cabinet power density of 20 to 50 kW per cabinet.

What are the key energy saving and economically sensitive parameters?

Overall, the key energy-saving and economically sensitive parameter of the proposed system is the ambient temperature, while the system performance is less sensitive to the energy storage battery-related parameters.

What are the energy-saving solutions for waste heat recovery in data centers?

The energy-saving performance of the proposed system was compared with previous studies in Table 2. The energy-saving solutions for waste heat recovery in data centers include adsorption refrigeration , absorption refrigeration , heat pumps , and organic Rankine cycles .

How does cabinet number affect energy savings & net present value?

Both the system energy saving and net present value increase with the cabinet number. This is because the waste heat provided by the data center is positively correlated with the cabinet number. The more cabinets there are, the greater the waste heat is provided.



Solar energy storage cabinet energy saving analysis

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