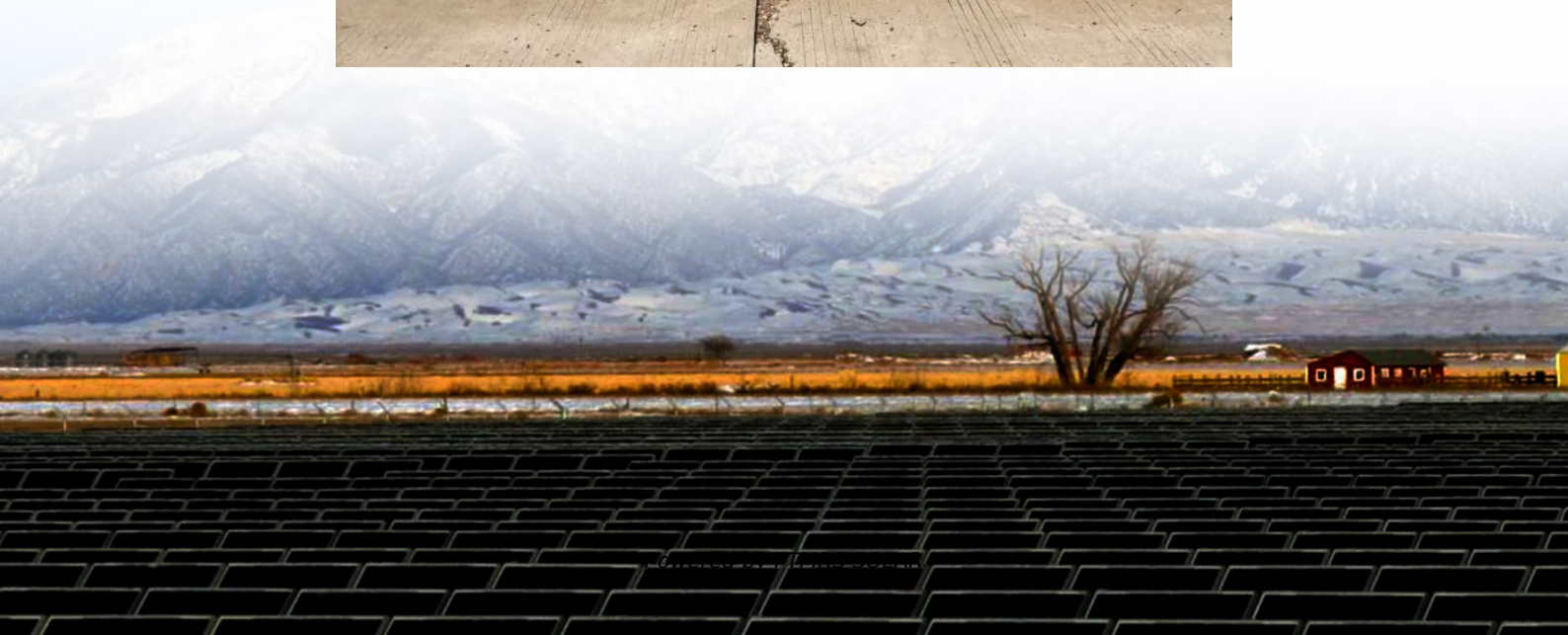


Nanya Commercial Energy Storage Water Cooling System





Overview

What is the total energy consumption of a liquid cooling data center?

The total energy consumption includes the energy consumptions of the cabinets, uninterruptible power supply (UPS), cooling system, lighting system, power transfer, and distribution system. The PUE of the liquid cooling data centers can usually be reduced to below 1.3 [6, 7].

How much energy is saved by a cooling system?

Coupled waste heat recovery and energy storage subsystems were included. Refrigeration modes were clarified to save cooling energy. Power usage effectiveness is reduced from 1.317 to 0.981. Maximum energy saving reaches 90.8 GWh/year with 1000 cabinets. Maximum net present value reaches 998 million CNY.

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 .

Can a liquid cooling data center drive adsorption refrigeration cycle?

Waste heat from a liquid cooling data center was utilized to drive an adsorption refrigeration cycle in Ref. , and the generated refrigeration capacity of the ARC was further used for air cooling. It was found that for a 350 kW water cooling system and a 50 kW air cooling system, the discounted payback period (DPB) was as low as 285 days.



Nanya Commercial Energy Storage Water Cooling System

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