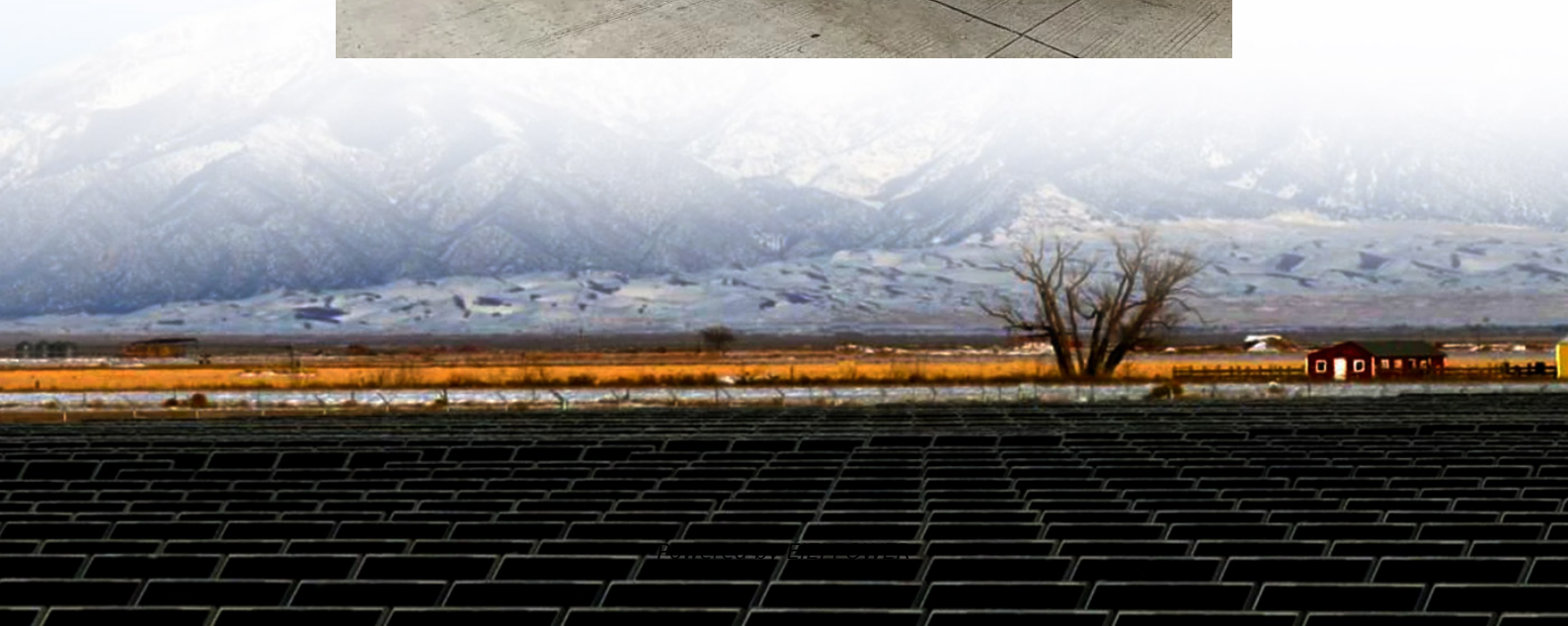


Two-charge and two-discharge energy storage power station





Overview

The core business logic of the "two-charge, two-discharge" strategy is very simple, similar to an "energy transporter": charge the energy storage system during periods of low electricity prices and discharge it to businesses during periods of high electricity prices, earning profits by profiting from the price difference. When does the energy storage system choose not to discharge?

When the grid price is in the valley period, such as 15:00–18:00, the energy storage system chooses not to discharge regardless of the power shortage. Thereafter, the energy storage system initiates the discharging mechanism when the grid price is in the peak period starting period of 18:00.

How is energy storage power station distributed?

The energy storage power station is dynamically distributed according to the chargeable/dischargeable capacity, the critical over-charging ES 1# reversely discharges 0.1 MW, and the ES 2# multi-absorption power is 1.1 MW. The system has rich power of 0.7MW in 1.5–2.5 s.

What is the maximum chargeable/dischargeable power of energy storage?

Meantime, combined with wind power prediction, the maximum chargeable/dischargeable power of energy storage is the maximum deficiency of the wind power compared with the auxiliary machine of the thermal power unit, and the energy storage capacity required in the black-start period can be obtained.

Can a shared energy storage concept perform dual functions of power flow regulation?

This paper proposes an FESPS developed on the basis of a shared energy storage concept, which can execute the dual functions of power flow regulation and energy storage.



Two-charge and two-discharge energy storage power station

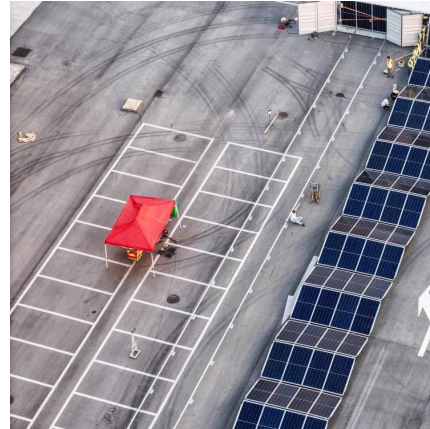


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To accomplish two-charge and two-discharge energy storage effectively, one must consider 1. the underlying technologies involved, 2. the system's efficiency metrics, 3.

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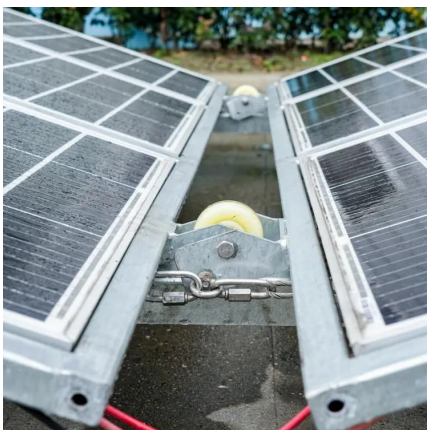
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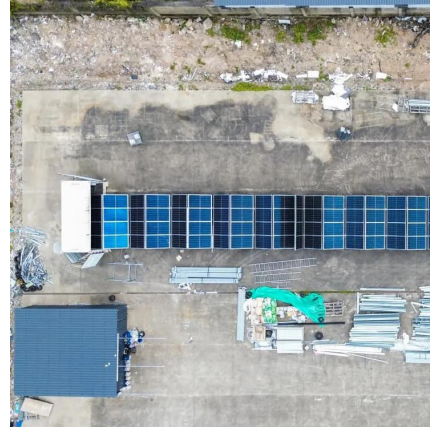
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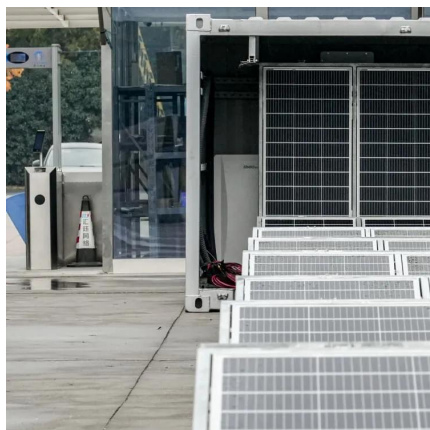


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