

Equipped with energy storage power station

What is Ningxia power's energy storage station?

On March 31, the second phase of the 100 MW/200 MWh energy storage station, a supporting project of the Ningxia Power's East Ningxia Composite Photovoltaic Base Project under CHN Energy, was successfully connected to the grid. This marks the completion and operation of the largest grid-forming energy storage station in China.

How does the energy storage system work?

Each energy storage unit is connected to the 35kV distribution unit of the booster station through a 35kV collector line and then boosted to 220kV via a 120MVA (220/35kV) transformer. The project is equipped with an energy management system (EMS) to receive grid dispatching commands and manage the charge and discharge of the energy storage system.

What is the largest grid-forming energy storage station in China?

This marks the completion and operation of the largest grid-forming energy storage station in China. The photo shows the energy storage station supporting the Ningdong Composite Photovoltaic Base Project. This energy storage station is one of the first batch of projects supporting the 100 GW large-scale wind and photovoltaic bases nationwide.

Why should power grid enterprises use multi-point centralized energy storage stations?

For power grid enterprises, multi-point centralized medium and large-scale energy storage stations will be conducive to the reinforcement of the distribution network and the sustainable consumption of renewable energy.

What time does the energy storage power station operate?

During the three time periods of 03:00-08:00, 15:00-17:00, and 21:00-24:00, the loads are supplied by the renewable energy, and the excess renewable energy is stored in the FESPS or/and transferred to the other buses. Table 1. Energy storage power station.

What is a flexible energy storage power station (fesps)?

Firstly, this paper proposes the concept of a flexible energy storage power station (FESPS) on the basis of an energy-sharing concept, which offers the dual functions of power flow regulation and energy storage. Moreover, the real-time application scenarios, operation, and implementation process for the FESPS have been analyzed herein.

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