

## ContainerPower Energy Solutions

# Double-row energy storage power station



## Overview

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The high proportion of renewable energy access and randomness of load side has resulted in several operational challenges for conventional power systems. Firstly, this paper proposes the concept of a flexi.

How is energy storage power station distributed?

The energy storage power station is dynamically distributed according to the chargeable/dischageable 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.

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.

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.

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 energy storage/reuse based on shared energy storage?

Energy storage/reuse based on the concept of shared energy storage can fundamentally reduce the configuration capacity, investment, and operational

costs for energy storage devices. Accordingly, FESPS are expected to play an important role in the construction of renewable power systems.

How does the energy storage power station absorb the abundant power?

The energy storage power station absorbs the abundant power according to the ratio of chargeable/dis-chargeable capacity by 5:1. Up to 3.5 s, the ES is continuously discharged. If not corrected by  $\Delta$  SOC, critical-charge ES 2 # will continue the critical discharge.

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