

## SolarTech Power Solutions

# User-side energy storage power station cooperation



## Overview

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What is user-side shared energy storage?

User-side shared energy storage is composed of interconnection and mutual benefit of adjacent energy storage devices in the same area, so the power loss in the power interaction process can be ignored [17].

Will shared energy storage participate in the operation mode of multi-virtual power plant?

Considering the high investment cost of the energy storage system, it is proposed that the shared energy storage will participate in the operation mode of the multi-virtual power plant system as an independent subject, which will help to realize a win-win situation in cooperation between the VPP operator and the shared energy storage operator.

Is user-side energy storage a waste of resources?

However, the disorderly management mode of user-side energy storage not only causes a waste of resources, but also brings hidden dangers to the safe operation of the power grid, such as stability, scheduling and operation, power quality and other problems.

Can shared energy storage be allocated in New energy field stations?

Literature [29, 30] constructed an operational architecture and operation optimisation model for the allocation of shared energy storage in new energy field stations on the power generation side.

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.

Can shared energy storage power stations be profitable?

The construction condition of shared energy storage power stations on the power supply side is convenient, and the energy storage power station has excellent regulation performance. For now, China's policymakers are indicating that shared energy storage participates in the electricity market as much as possible for profit.

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