

Alofi City Energy Storage Cabinet Cooperation Model





Overview

This paper proposes an option game model that is applicable to multi-agent cooperation investment in energy storage projects. A power grid enterprise and power generation enterprise are assumed to act.

How many electrochemical storage stations are there in 2022?

In 2022, 194 electrochemical storage stations were put into operation, with a total stored energy of 7.9GWh. These accounted for 60.2% of the total energy stored by stations in operation, a year-on-year increase of 176% (Figure 4).

Which energy storage projects have a low utilisation co-efficient?

According to a survey by the China Electricity Council, new energy distribution and storage projects have a low equivalent utilisation co-efficient of 6.1%, the lowest among the application scenarios, while the average for electrochemical energy storage projects is 12.2% (Figure 8).

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.

How can China achieve 30/60 carbon goals?

Stepping up efforts to develop new energy storage technologies is critical in driving renewable energy adoption, achieving China's 30/60 carbon goals, and establishing a new power system.



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System shared energy storage cooperation model.

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