

Caoping pumped storage power station bidding

What is pumped storage power station (PSPS)?

The pumped storage power station (PSPS) is a special power source that has flexible operation modes and multiple functions. With the rapid economic development in China, the energy demand and the peak-valley load difference of the power grid are continuing to increase.

What is the competitive strategy optimization model of pumped storage power station?

In the competitive strategy optimization model of PSPS, the physical characteristics of a pumped storage power station need to be considered, such as the variable speed technology of the generator or pumping unit, whether there is a frequency converter, and whether it is synchronous or asynchronous motor.

Can pumped storage power stations reduce peak and fill Valley?

As a kind of large-scale energy storage equipment, pumped storage power stations (PSPS) can not only cut peak and fill valley, but also meet with a quick response of flexible regulation. PSPS is playing a positive role in promoting new energy consumption, reducing abandoned wind and light, and reducing social electricity cost [,,].

Should pumped storage power station be included in the power grid?

With the development of transmission and distribution price reform in China, pumped storage power station can not continue to be included in the effective assets of the power grid, and its cost can not be dredged through the transmission and distribution price, so it is urgent to find a way to protect its own income through the market.

Why is pumped storage bidding model important?

It can better reflect the two-way influence of pumped storage's bidding strategy and market clearing price. It is used to simulate the process of game between pumped storage and other competitors, which is closer to the real bidding scenario, so that the calculation results of the model have higher reference value.

Should pumped storage power stations use a three-stage model?

The calculation example analysis shows that compared with the traditional model, the "three-stage" model can bring better benefits to the pumped storage power station, and when the actual value of demand fluctuates within -8%, the pumped storage power station has the ability to resist risks higher than the market average.



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