

## Photovoltaic industry user-side energy storage

What is the value of a user side energy storage system?

In recent years, many scholars have carried out extensive research on user side energy storage configuration and operation strategy. In and, the value of energy storage system is analyzed in three aspects: low storage and high generation arbitrage, reducing transmission congestion and delaying power grid capacity expansion.

What is the energy storage capacity of a photovoltaic system?

The photovoltaic installed capacity set in the figure is 2395kW. When the energy storage capacity is 1174kW h,the user's annual expenditure is the smallest and the economic benefit is the best. Fig. 4. The impact of energy storage capacity on annual expenditures.

Why is energy storage important in distributed photovoltaics?

Due to the adjustable and flexible characteristics of the energy storage system, its application in distributed photovoltaics can effectively solve the problems of voltage overruns and the timing difference between photovoltaic output and user power demand.

What is user-side energy storage?

The configuration of user-side energy storage can effectively alleviate the timing mismatch between distributed photovoltaic output and load power demand, and use the industrial user electricity price mechanism to earn revenue from peak shaving and valley filling.

Does the installed capacity of photovoltaic affect energy storage allocation capacity?

On the basis of determining the installed capacity of photovoltaic, the basic electricity charge remains unchanged, and the impact of three different TOU price strategies on energy storage allocation capacity and annual comprehensive cost of users is analyzed.

How to increase the economic benefits of photovoltaic?

When the benefits of photovoltaic is better than the costs,the economic benefits can be raised by increasing the installed capacity of photovoltaic. When the price difference of time-of-use electricity increases,economic benefits can be raised by increasing the capacity of energy storage configuration.

Therefore, installing energy storage on the basis of photovoltaics or user side energy storage can bring good benefits. Below is an analysis of the characteristics and investment economy ...



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