

Energy storage power station auxiliary service income

What is auxiliary service stage?

Auxiliary service stage: the excess power of the power grids stored in the form of heat to the heat accumulator when the power consumption is low, and the cogeneration of heat and power is carried out to provide auxiliary services for the power grid when the power grid needs power for auxiliary services.

What is energy storage operation & maintenance cost?

The operation and maintenance cost are the dynamic investment to ensure the normal operation of energy storage in its service life, which usually includes a fixed part determined by the power conversion system and a variable part determined by the charge and discharge capacity of energy storage.

How does energy storage affect economic performance?

In summary, the economic performance of the energy storage power station is mostly affected by rental fees and the heat price, the price of auxiliary service also exerts a great impact on the economy, while the impact on the economy of cost per unit capacity of energy storage and downtime is less significant.

Can battery energy storage system be used for frequency and peak regulation?

Some scholars have made lots of research findings on the economic benefit evaluation of battery energy storage system (BESS) for frequency and peak regulation. Most of them are about how to configure energy storage in the new energy power plants or thermal power plants to realize joint regulation.

How much will energy storage cost in 2040?

Estimates show that energy storage facilities around the world will multiply exponentially from 9 GW implemented by 2018 to 1095 GW by 2040, requiring investments in the order of \$662 billion, with the majority of the new capacity being utility-scale storage [3].

Why is energy storage important in emerging energy systems?

Energy storage plays a vital role in balancing the gap between energy supply and demand in emerging energy systems. Previous studies primarily focused on the electrochemical energy storage, but less stressed on the electricity and heat demand from terminal-users.



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