

New energy storage grid-connected pricing mechanism





Overview

Therefore, based on the Vickrey-Clarke-Groves (VCG) mechanism design theory, an energy pricing mechanism is proposed for grid-side energy storage power stations to participate in the market to reduce the impact of market power and discover the greatest value of energy storage power plants. What is new energy on grid price?

In terms of new energy on grid price, Bao et al. [17, 18] carried out research based on kwh cost analysis model, predicted the change trend of kWh cost of new energy in different countries in the world in the future, and laid a foundation for the formulation of new energy on grid price.

What factors affect the on grid price of new energy power generation?

In the market environment, it is necessary to supervise the rate of return of new energy power generation enterprises. Therefore, when the rate of return and cost are certain, income is another important factor affecting the on grid price of new energy power generation .

How does the power grid affect the on grid price?

The impact of the power grid on the on grid price is greater than that of the power generation enterprises. The power generation enterprises reduce the power generation cost according to the decisions of the power grid, so as to improve the income. Power grid and power generation enterprises meet the following five basic assumptions.

Do new energy power stations have a price mechanism?

Starting from the cost-benefit of new energy power stations, the on grid price mechanism of new energy power stations under different market environments is designed. Finally, an example is analyzed, and the following conclusions are obtained.

What is new on grid tariff mechanism?



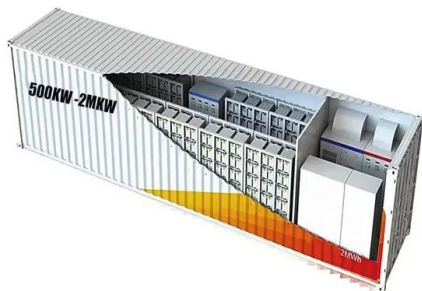
New on grid tariff mechanism is designed for wind power generation and photovoltaic power generation. In this context, there are problems in cost accounting, revenue determination and mechanism design of new energy grid pricing policy.

What is a capacity based grid cost?

Capacity based grid costs are paid on a monthly (or yearly) basis and based on the maximum measured power (CHF/kW). Usually, the capacity tariff is time-independent, but it can vary on a seasonal basis. Block rate tariff An energy tariff (CHF/kWh) that varies according to the (averaged) power over a 15-min period.



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Lithium battery parameters

Product capacity: 100Ah

Product size: 135*197*35mm

Product weight: 1.82kg 197mm /7.7in

Product voltage: 3.2V

internal resistance: within 0.5



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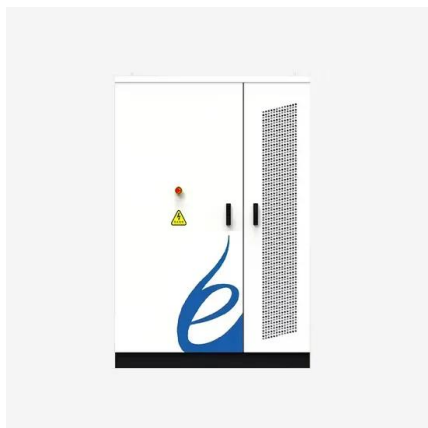
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