

How to calculate the energy storage peak load subsidy

How long is the energy storage subsidy period?

The subsidy period lasts for 3 years following the completion of the energy storage project. Furthermore, depreciation and maintenance costs for the energy storage system are estimated to be 4 % of the initial system investment cost. The relevant data are summarized and presented in Supplementary Information Table D.1.1.

What is the energy storage capacity subsidy?

Additionally, the energy storage capacity subsidy is a one-time payment of 200 CNY/kW, while there are ongoing subsidies for charging and discharging (0.5 CNY/kWh) and for peak-valley arbitrage (0.7 CNY/kWh). The energy storage system is assumed to operate for 300 days annually, with two charge-discharge cycles per day.

Are government subsidies sufficient for energy storage?

The government's incentive funds, including policy publicity and fiscal subsidies designed to encourage investment and industrial growth among energy storage operators, are insufficient compared to the national fiscal subsidies granted to the energy storage industry. Specifically, the subsidy coefficient $S_1 \ll D$.

Do government subsidy levels influence energy storage operators' engagement and power system transformation?

Government subsidy levels both influence and are influenced by energy storage operators' engagement and power system transformation. Energy storage operators become proactive when their participation profit coefficient exceeds a critical threshold.

What is the best method for subsidy long-term estimation?

Instead, some authors suggest optimization methods, like the real option model, consumer choice model, or the consumer choice model combined with real option, for subsidy long-term estimation, which have the advantage of reflecting various factors and their uncertainties.

Do subsidies affect the energy storage industry in Chongqing?

The energy storage industry in Chongqing, China, is governed by a comprehensive set of subsidy policies. As such, relevant data from this region more accurately reflect the impact of governmental subsidies on this sector.



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