

Grid-connected subsidies for energy storage power stations





Overview

What role do government subsidies play in energy storage industry development?

Government subsidies play a pivotal role in energy storage industry development, stimulating operator investment and system participation while ensuring power system benefits. As shown in Fig. 1, this creates dynamic interactions among government regulators, energy storage operators, and the broader power system entities.

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

The stability analysis of each equilibrium point across the four scenarios is presented in Supplementary Information Table B.4.1. Government subsidy levels both influence and are influenced by energy storage operators' engagement and power system transformation.

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.

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.



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