

NATIONAL SUBSIDY STANDARDS FOR ENERGY STORAGE



Do government subsidies increase total factor productivity of energy storage enterprises? Based on panel data of Chinese 101 energy storage enterprises from 2007 to 2022, this paper examines the effectiveness of government subsidies in the energy storage industry from the perspective of total factor productivity (TFP). The results unveil that government subsidies significantly increase the TFP of ESEs.



How do government subsidies help energy storage enterprises? Government subsidies alleviate the financial constraints of energy storage enterprises. Government subsidies promote R&D investment in energy storage enterprises. Differentiated subsidy strategies can generate higher TFP improvement returns. Government subsidies are an important means to guide the development of the energy storage industry.



Are government subsidies effective in reducing energy storage financing constraints? Large ESEs with sufficient collateral and high technological maturity of their energy storage products are more likely to receive government subsidies and external financing from the banking sector. As a result, government subsidies are more effective in alleviating the financing constraints of large-scale ESEs.



Do government subsidies affect the R&D of large-scale energy storage projects? Government subsidies may have a stronger effect on the R&D of large-scale ESEs. Currently, the energy storage projects show a trend of continuous scale-up, and large ESEs are more likely to construct large-scale ???wind power +PV +energy storage??? projects.



Do government subsidies improve TFP of energy storage enterprises? Government subsidies improve the TFP of energy storage enterprises. The government's ???picking winners??? subsidy strategy is effective. Government subsidies alleviate the financial constraints of energy storage enterprises. Government subsidies promote R&D investment in energy storage enterprises.

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Why are government subsidies important? Government subsidies are an important means to guide the development of the energy storage industry. As countries around the world are increasing government subsidies to energy storage enterprises (ESEs), how to effectively utilize these subsidies has become a focus of attention.



In July 2021, the National Energy Administration and the National Development and Reform Commission issued their "Guiding Opinions on Accelerating the Development of New Energy Storage", which for the first time declared the ???



In addition, the "Energy Law of the People's Republic of China (draft for comment)" encouraged the development of smart grid and energy storage technology. The National Energy Administration's response to ???



Energy storage is becoming an increasingly important part of the national electricity market (NEM) and recent forecasts point to a greater role for storage in the future. This requires the regulatory framework to evolve to ???



Official Release of Energy Storage Subsidies in Xinjiang: Capacity Compensation of 0.2 CNY/kWh, Capacity Lease of 300 Feb 27, 2023 The National Standard "Safety ???

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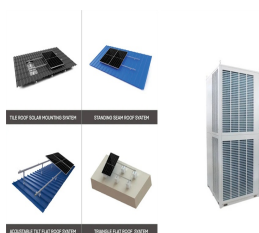
The 334 national standards include three new national standards for power batteries: Sizes of Power Storage Battery Products for Electric Vehicles (GB/T 34013-2017), Code Rules ???



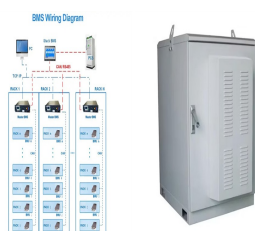
This national standard puts forward clear safety requirements for the equipment and facilities, operation and maintenance, maintenance tests, and emergency disposal of electrochemical energy storage stations, and is ???



On November 27, the National Energy Administration released its No. 5 announcement for 2020, approving 502 energy industry standards. Seven of the announced standards relate to energy storage, covering areas including ???

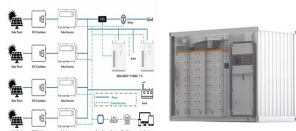


On May 19th, the Development and Reform Commission of Xinjiang officially released the "Notice on Establishing and Improving Supporting Policies for the Healthy and Orderly Development of New Energy Storage." The notice ???

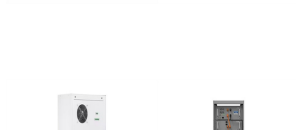


However, Ofgem has indicated that it is not minded to reform the restrictions on the participation of DNOs in the electricity storage market. National Grid is the system operator in Great Britain, which procures various ancillary services, ???

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The country fosters investments through subsidy programs for innovative storage technologies and adjustments to grid fees concerning storage facilities. Revenue generation in a market with high volatility and limited ???



Li Zhen, deputy secretary-general of the China Energy Storage Alliance, believes that the release of Qinghai's energy storage subsidy policy is good for the industry. The policy makes clear that energy storage is prioritized ???



Japanese enterprises carry out system construction with the help of national legislations and subsidies to achieve the efficient recycle batteries for echelon utilization of ???



On February 17, the National Energy Administration approved 168 energy industry standards such as "Technical Specification for High Voltage DC Protection Test Equipment", ???



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