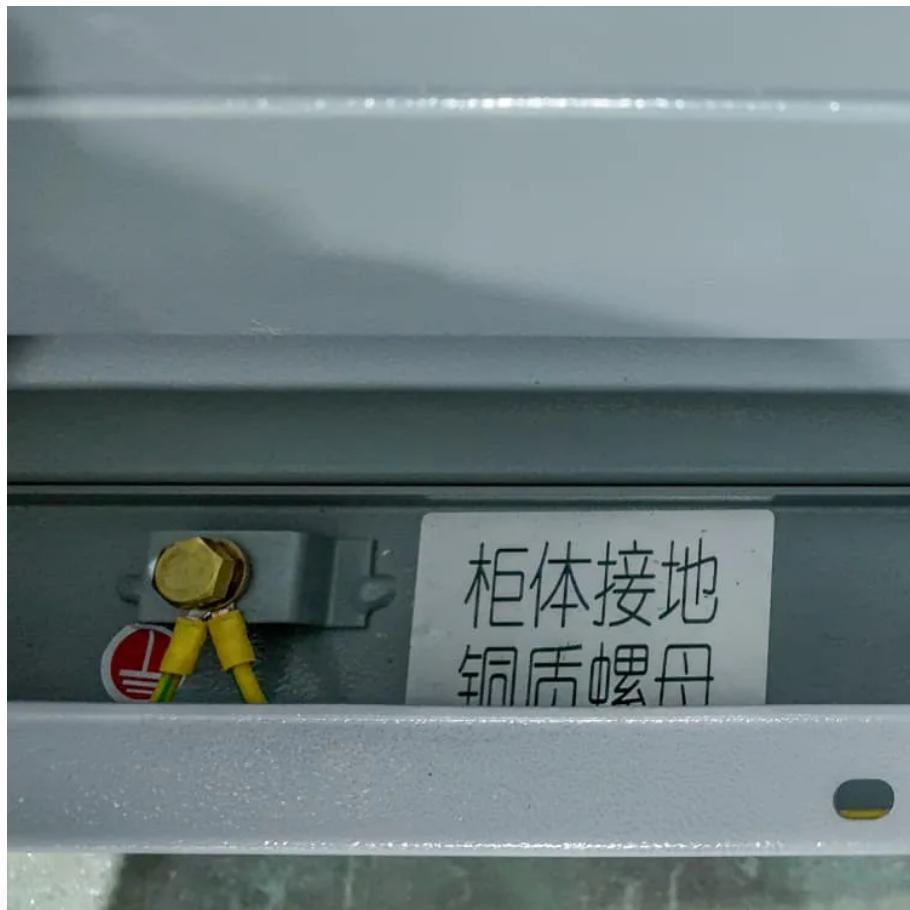




# Energy storage subsidies for battery swap stations





## Overview

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Does government subsidy promote battery swapping?

Theorem 5 shows that under the same government subsidy, the CSR input of battery swapping operators can effectively promote the expansion of the battery swapping market. Zhou et al. (2023) found that the higher the government subsidy, the higher the profit of the firm, but this does not directly promote the practice of CSR by the firm.

How to calculate battery swapping operation subsidy?

Battery swapping operation subsidy (Model ON) At this time, the profit functions of the battery supplier and battery swapping operator are: (2)  $\max_{w, h} \pi_B = w Q \mu_h^2 / 2 s t \max p_B, p_b \pi_O = p_B Q_1 + n p_b Q_2 (w + (1 s_f) Q w < p_B, n p_b.$

What is a model on battery swapping subsidy?

In Model ON, (a) the sales price and rental price of battery packs of the battery swapping operator decrease with the increase of battery swapping subsidy:  $\partial p_B \text{ ON}^* / \partial s < 0, \partial p_b \text{ ON}^* / \partial s < 0;$ .

Should battery swapping service be subsidized?

Specifically, when the price sensitivity coefficient of battery swapping service is low, continuing to subsidize vehicle companies may be advisable. Conversely, when the price sensitivity coefficient is high, it may be more effective to provide subsidies to consumers or battery manufacturers. The authors declare no conflicts of interest.



## Energy storage subsidies for battery swap stations



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Driven by the demand for carbon emission reduction and environmental protection, battery swapping stations (BSS) with battery energy storage stations (BESS) and distributed ...

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As of June 2024, Nio had installed 2,432 power swap stations in China, including 804 swap stations based on highways. This represents the largest battery swapping network in China, with the company aiming ...

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The city also introduces incentives for the taxi industry, with taxi drivers using battery swap-enabled vehicles eligible for a monthly subsidy of up to RMB 200, provided the vehicles primarily utilize battery swap stations for ...





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### [Shanghai Measures for Supporting the Development of](#)

For newly - built universal and non - universal battery swap stations, their battery - swapping equipment enjoys investment subsidies of 40% and 20% respectively, and the upper ...

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From 1 April 2025, Shanghai, a metropolis of millions, will subsidise the construction of battery exchange stations in the city. Hefei is also introducing a subsidy for ...

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The city also subsidizes cab drivers using battery swap-enabled vehicles up to a maximum of RMB 200 per month, but requires such vehicles to be recharged primarily through battery swap stations. ...

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### **The Impact of Subsidies on Pricing Decisions in the Battery ...**

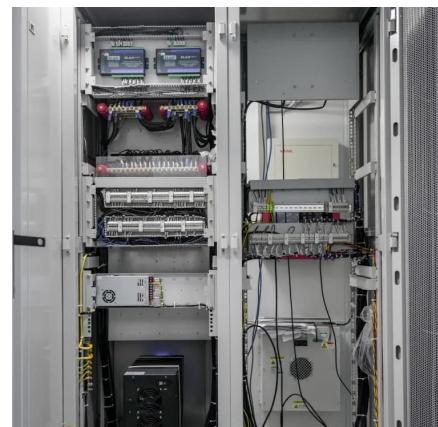
Results show that (1) subsidies do not invariably result in companies lowering prices for their products and services. Under various subsidy strategies, companies tend to ...

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### **Incentivizing new development of battery swapping services: ...**

The battery swapping model can effectively address the current issue of low energy replenishment efficiency in new energy vehicles. However, the low market share and ...

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