

Can government subsidies help encroachment of power battery recycling market?

(1) Government subsidies can encourage him to adopt the encroachment strategy (win-win),but the government also needs to set a reasonable subsidy level,which should not be too high. (2) If the power battery recycling market is in its infancy and the recycling market scale is small,the government will subsidize her.

Should the government cancel power battery recycling subsidies?

If the power battery recycling market is in a mature stage, the recycling market scale is large, and the government's financial pressure increases, then the government can cancel subsidies because his channel encroachment strategy can also ensure environmental and social welfare.

Does government battery recovery subsidy affect sales price?

As can be seen from Figure 2,no matter the power structure,the government battery recovery subsidy is negatively correlatedwith the sales price of new energy vehicles,but the sales price decreases by different degrees under different power structures.

Why do we need a new battery subsidy policy?

In addition to annually reducing the amount of subsidy for public and private purchases,these policy adjustments also imposed more stringent technical requirements (e.g.,energy density,driving range,etc.) for receiving subsidies in order to promote the development of core battery technologies by the domestic firms(policy aims at low-levels).

Can government subsidies help recycle end-of-life power batteries?

It is difficult for recyclers and consumers to cooperate proactively in recycling end-of-life power batteries. Thus, it is found that government subsidies to recycling companies and consumers can maximize social welfare at the lowest government cost.

How do government subsidies affect new energy vehicles?

The sales and wholesale prices of new energy vehicles are negatively correlatedwith the level of government subsidies. Under different power structures,sales and wholesale prices decrease with increases in government subsidies to varying degrees.

[1] [2][3] As a sustainable storage element of new-generation energy, the lithium-ion (Li-ion) battery is widely used in electronic products and electric vehicles (EVs) owing to its ...

China's Ministry of Transport and Ministry of Finance on Wednesday issued detailed rules for the subsidies targeting the renewal of new-energy city buses and batteries. ...

With the advancement of new energy vehicles, power battery recycling has gained prominence. We examine a power battery closed-loop supply chain, taking subsidy ...

minimum battery energy density (90 Wh/kg) and maximum energy consumption. The maximum energy consumption, measured in kWh/100 km, is a function of vehicle curb ... National ...

Empirically, we investigate the developmental process of the new energy vehicle battery (NEVB) industry in China. China has the highest production volume of NEVB ...

2 ???&#0183; It is turning conventions upside down for industries, economies, and supply chains across the globe by hastening the change toward cleaner, renewable sources of energy. ...

5 ???&#0183; Experts predict that by 2025, the battery swapping market will reach a scale of 100 billion, setting a = 1000; The service cycle of new energy vehicles can reach 6-10 years, 6 so ...

The vigorous development of the new energy automobile industry has highlighted the issue of efficient recycling of power batteries. Using a Stackelberg game, the pricing mechanism of ...

The new energy vehicle (NEV) 1 industry in China has undergone rapid development in recent years, to deal with increasingly problematic challenges of energy ...

2 ???&#0183; The policy drive for the transition of the world in cleaner, renewable energy has really triggered an unbeatable surge in the demand for such metals as cobalt, lithium, and nickel. ...

With the "scrap tide" of power batteries in China, the resulting resource and environmental problems will become increasingly apparent. If the batteries of retired new ...

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