

Should the government subsidize the power battery recycling market?

(2) If the power battery recycling market is in its infancy and the recycling market scale is small, the government will subsidize her. In this case, the government's financial support has reduced environmental pollution and improved social welfare.

Do EV batteries need to be replaced?

As the core component of an EV, the power battery has strict requirements for use and maintenance. When the capacity of the power battery drops to 70-80% of the original capacity, traffic accidents are likely to occur and replacement is necessary (Zhang et al., 2020).

Are Power Batteries A key development area for new energy vehicles?

In the Special Project Implementation Plan for Promoting Strategic Emerging Industries "New Energy Vehicles" (2012-2015), power batteries and their management system are key implementation areas for breakthroughs. However, since 2016, the Chinese government hasn't published similar policy support.

Can Nev batteries be recycled in China?

In China, NEV (or battery) manufacturers can be rewarded (10 RMB/KWh) by establishing power battery recovery systems and recycle power batteries (Hefei, 2018). However, in 2018, China's recycling volume of end-of-life power batteries was 13,500 tons, and the actual recycling rate was only 22.9% (EGRI, 2019).

How EV power battery Remanufacture in China?

As the largest market for NEVs, China gradually is establishing a sound spent battery treatment system and is encouraging the multi-level management of retired batteries by echelon utilization. Gu et al. (2018) studied the three-stage model of EV power battery CLSC, which consists of a manufacturer and a remanufacturer.

Can used car power batteries be remanufactured?

As special and dangerous chemical products, however, spent automobile power batteries cannot meet the quality standards of new power batteries by means of remanufacturing. They can only be echelon utilized or can be used to extract their raw materials for the manufacture of new power batteries.

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Through the analysis between the working principle of lithium-ion batteries and lead-acid batteries, and based on the research status of lithium-ion batteries at home and abroad, the ...

Using used batteries for residential energy storage can effectively reduce carbon emissions and promote a rational energy layout compared to new batteries [47, 48]. Used ...

2 ???&#0183; Energy is shifting to clean sources of solar, wind, and electric vehicles much faster than ever. Governments and companies are doubling down on their sustainability ambitions, as the ...

Considering the supply chain composed of a power battery supplier and a new energy vehicle manufacturer, under the carbon cap-and-trade policy, this paper studies the ...

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