

Do power batteries recycling policies have a practical effect?

The practical effect of power battery recycling (PBR) largely depends on consistency or conformity within and among central-local policies (Steward et al., 2019). Therefore, it is crucial to conduct policy consistency evaluation of power batteries recycling policies (PBRPs) scientifically to find out the in-depth problems.

Should government policies support renewable power battery recycling companies?

In conclusion, governments should introduce policies to support companies that handle renewable power battery recycling to optimize the structure of the power battery recycling industry and achieve the goal of balanced economic growth and environmental protection. The results of this paper provide a basis for government policy.

Should NEV retailers educate consumers about power battery recycling?

Retailers of NEVs should educate consumers about power battery recycling and formal recycling channels. Through incentives, consumers are encouraged to actively participate in the recycling process. Consumers play a key role as the source of waste power battery recycling and the starting point of the recycling channel.

Does the power battery recycling industry meet market demand?

However, the power battery recycling industry is still in its infancy, and the existing recycling policy and the system must fully meet market demand. This paper takes the NEV power battery recycling industry as the research object and constructs an evolutionary game model between "recycling companies and consumers" without government intervention.

Should battery remanufacturing companies recycle used power batteries?

Battery remanufacturing companies should invest in recycling technology for used power batteries. If used power batteries are only disposed of in landfills, incinerators, and other common waste disposal methods, they will also cause serious environmental pollution.

Who recycles EOL power batteries?

The recovered EoL power batteries will be transferred to regular power battery dismantling companies for echelon utilization and resource recycling [42]. Based on the actual situation, this paper assumes that recycling companies include power battery manufacturers, NEV manufacturers, and NEV retailers.

Policy-makers in China, the European Union (EU) and the US have realised the strategic importance of EV batteries and are aiming to scale their recycling through ambitious policy ...

waste power battery, the model is constructed as follows: $C_i = C_b + C_t + C_d + C_a + C_p + C_m + C_e + C_l + C_r + d$
 (4) Wherein: C_b -- recycling price of waste power battery; It refers to the cost of ...

The results were as follows: (1) the Chinese government has gradually increased its focus on the power battery industry, concentrating on R& D and production in the ...

The growth of e-waste streams brought by accelerated consumption trends and shortened device lifespans is poised to become a global-scale environmental issue at a short ...

The new guidelines set out extensive criteria for companies in the battery recycling sector, covering aspects such as facility specifications, business structures, and ...

Big-Data-Based Power Battery Recycling for New Energy Vehicles: Information Sharing Platform and Intelligent Transportation Optimization June 2020 IEEE Access PP(99):1-1

In summary, the New Regulation establishes minimum recycling rate targets for waste batteries and critical metal materials: By December 31, 2023, a minimum of 45% of ...

[BYD set up a new battery company to manage waste battery recycling and sales] following the establishment of automobile and charging piles and other sales companies ...

The policies and local governments should complement each other to form "one local, one policy" to better implement the echelon utilization of EoL power batteries [51], such ...

Thus, the promotion of new energy vehicles (NEVs) can reduce the dependence of vehicles on fossil fuels and effectively mitigate major environmental issues such as "carbon emissions" and the "greenhouse effect"

New energy vehicle battery ... the production and sales volume of new energy ... ndui yr t s 10. e recycling of used power batteries is not only related to the response to the waste crisis, ...

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