

Extended Producer Responsibility for Lead-acid Batteries

Do lead-acid battery manufacturers have a responsibility extension system?

To assess the performance of the responsibility extension system of lead-acid battery manufacturers, we verified the above theoretical analysis. To analyze the production, recycling, and reuse behaviors of lead-acid battery manufacturers, we investigated many lead-acid battery manufacturers.

Does extended producer responsibility affect the export of waste batteries?

In this context, we examine the impact of extended producer responsibility (EPR) on the export of waste batteries (WB). EPR is considered as a key policy for the "marketization of waste". WB are a hazardous waste that also contain a high concentration of critical raw materials.

How to solve the pollution problem of discarded lead-acid batteries?

The pollution control problem of discarded lead-acid batteries has become increasingly prominent in China. An extended producer responsibility system must be implemented to solve the problem of recycling and utilization of waste lead batteries. Suppose the producer assumes responsibility for the entire life cycle of lead batteries.

How does a lead-acid battery alliance work?

The producer predicts the decision of the lead-acid battery alliance, and the alliance determines the recycling price, manufacturer's independent recycling channel price, and recovery rate. The conditions for maximizing the producer's profit are:

Should producers be able to use or dispose of waste lead batteries?

Producers should be enabled to use or dispose of waste lead batteries in the most conducive way to environmental protection to promote the healthy and sustainable development of the waste lead battery recycling industry. Therefore, this article mainly conducts the following research.

What is the plan for promoting the Extended Producer Responsibility System?

In 2017, the State Council issued the "Plan for Promoting the Extended Producer Responsibility System" (hereinafter referred to as "The Plan") according to the "Overall Plan for System Reform toward Ecological Civilization," which was jointly issued by the Communist Party of China Central Committee and the State Council.

Based on the operating mechanism of the extended responsibility system for lead-acid battery producers in China, this article considers three recycling channel structures: recycling only...

Improve general requirements for extended producer responsibility schemes. In general, concrete actions covering the whole product lifecycle in a circular economy. But thanks to a longer usage of the battery

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material, all the environmental impacts are reduced!

Aiming at these problems, combining with the pilot work of waste lead-acid battery collection and treatment system in Henan province, a proposal was raised for the implementation of the ...

Manufacturers in four categories of products, including electrical appliances and electronic products, automobiles, lead-acid batteries and packing materials, are given priority to carry out extended producer responsibility, according to the circular.

The EPR system will be expanded to automobiles, lead-acid batteries, and packaging materials. With lessons from e-waste management, the new EPR scheme emphasizes the role of the market to connect the recycling sector to the production and consumption systems. Additionally, the scheme provides producers with opportunities to try ...

Based on the operating mechanism of the extended responsibility system for lead-acid battery producers in China, this article considers three recycling channel structures: recycling only by manufacturers (mode M), recycling by the union (mode R), and third-party recycling (mode C).

This research conducts a case study by comparing the waste lead-acid battery recycling in the EU and China. Empirical findings indicate a leapfrog development with deficiency in market ...

Based on the legal collection and treatment capacity of waste lead-acid batteries in China since 2016, this study analyses the achievements in implementing the extended producer responsibility (EPR) system and ...

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