



Extended battery production responsibility system

Collection of WEEE is the responsibility of the producer and may be carried out, such as through dealer, collection centres, producer responsibility organization, through buy-back arrangement, exchange scheme, deposit refund system, etc., either directly or through any authorized agency.

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Downloadable! In an effort to accelerate the advancement of green and low-carbon development, China introduced the extended producer responsibility (EPR) system in 2016, mandating producers to assume responsibility for waste recycling. Notably, power battery enterprises emerged as a primary focal point within the EPR system. Consequently, the interplay between ...

responsibility is extended to the post-consumer stage of a product's lifecycle (OECD, 2001; 2016). This definition is very broad, but in practice EPR entails that producers assume financial ...

Extended producer responsibility (EPR) is an important tool to develop a circular economy and construct the ecological civilization. An increasing amount of countries manage municipal solid waste through EPR systems to fight environmental pollution is of great significance to explore the EPR systems that are suitable for China's situation, building on ...

Extended producer responsibility systems can improve recycling rates with high quality ... According to the "World Economic Forum", overall plastic production was 311 million tons in 2014, which is expected to triple by 2050 (Weforum, 2019). The increase in plastic solid waste (PSW) volume continues to challenge the global plastic waste ...

The year 2024 has seen monumental regulatory shifts in the global packaging industry-one area in particular relates to that of Extended Producer Responsibility (EPR). Extended Producer Responsibility (EPR) refers to a regulatory approach in which the producers of packaging (and other products) in a defined territory are made responsible for managing the waste and ...

Governments use economic instruments such as taxes, emissions trading schemes and subsidies to incentivise behaviour change. As countries grapple with increasing volumes and complexity of waste, the OECD provides policy analysis and guidance on Extended Producer Responsibility (EPR) - a policy approach designed to shift the responsibility for products from municipalities ...

In recent years, due to the continuous development of public environmental awareness and the sharing economy (Mi and Coffman, 2019), both the government and enterprises are required to adopt scientific methods for waste management. The extended producer responsibility (EPR) has been first proposed by



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Lindhqvist and Lifset (1997) as a ...

The benefit relationship of each party during green production and recycling of the waste battery is analyzed in this model. Matlab software is used to simulate the process of three-party interaction. Key words: extended producer responsibility; new energy vehicles; battery recycling; cooperative game; pareto equilibrium

The existing research on the impact of the extended producer responsibility (EPR) system on corporate green technological innovation is still controversial. Based on the data of Chinese manufacturing industries (collected from 2010 to 2018), the study explores the influence of the EPR system on corporate green technological innovation. The difference-in ...

Over the past two decades, state lawmakers have demonstrated growing interest in extended producer responsibility, or EPR, enacting hundreds of laws across dozens of product categories. The early focus on products that were expensive to handle or hazardous like electronics, paint and mercury thermostats has now extended to a broader set of waste ...

The Korean government introduced its Extended Producer Responsibility (EPR) system in 2000 that strengthened producers responsibility from the production stage up to collection and recycling. EPR system is applied to four packaging materials (paper packaging, glass bottles, metal cans, and plastic packaging), lubricants, tires, fluorescent light bulbs, ...

This research explores the role of extended producer responsibility (EPR) as an enabler of circular value chain in the Chinese context. The driven forces and key stakeholders ...

The basic framework of the evaluation system covers the individual and collective responsibilities of enterprises: (1) Individual responsibility is aimed at production enterprises and oriented to product life cycle management, highlighting ecological design incentives based on independent information disclosure of production enterprises; (2 ...

This study explores the influence of cascade utilization and Extended Producer Responsibility (EPR) regulation on the closed-loop supply chain of power batteries. Three pricing decision models are established under the recycling model of the battery closed-loop supply chain are established in this paper: benchmark model, EPR regulatory model disregarding ...

circular economy systems aimed at recovering (critical) resources (Rosendahl and Rubi-ano 2019; Kojima 2020; Pommeret et al. 2022). The aim is to reduce supply risks and to alleviate the pressure on resource extraction.² Indeed, the growing demand for minerals for global battery production is responsible for undeniable impacts on local populations

The certificate for Waste Battery provided by registered entities shall be provided for the type and quantity of



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Battery refurbished or recycled and can be transacted for meeting Extended Producer ...

1. WHAT IS EXTENDED PRODUCER RESPONSIBILITY (EPR)? Extended Producer Responsibility (EPR) is a strategic concept aimed at enhancing the commitment of various stakeholders such as brand owners, producers, and importers towards the creation of environmentally friendly products. This approach involves managing all the

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Extended producer responsibility uses financial incentives to encourage manufacturers to design environmentally friendly products by holding producers responsible for the costs of managing their products at end of life. This policy approach differs from product stewardship, which shares responsibility across the chain of custody of a product, [6] in that it attempts to ...

economy transition through recycling policies, waste separation, extended producer responsibility (EPR), and other initiatives to help curb the amount of waste generated. To continue the push toward

This article suggests that current regulatory mechanisms for end-of-life battery management (primarily enshrined in the 2006 Batteries Directive (2006/66/EC), 7 which operates in conjunction with the 2000 ELV Directive (2000/53/EC) 8 fail to provide a sufficiently robust extended producer responsibility (EPR) framework to facilitate a circular economy for EV ...

Wiley is representing these sectors on today's critical supply-chain issues - addressing basic material scarcity and conflict mineral issues, component supply assurances, distribution matters, expanding electrification and our domestic production capacity for lithium ion cells, multi-disciplinary approaches to addressing plastic waste ...

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 establishing a legal and ...

In order to provide incentives for eco-design, the principle of EPR was promoted as an environmental policy instrument to extend producer's responsibility, physical and/or financial, for a product to its post-consumer stage (OECD, 2001). However, the real effects of EPR to provide eco-design incentives have been in doubt in many studies due to the uneasy ...

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