UN Basel Convention Proposed lithium battery waste amendments

Lithium is the silent powerhouse behind every smartphone, laptop, and electric vehicle (EV). Touted as the "green oil" of the 21st century, it"s the key ingredient in the batteries that fuel our ...

This study considers different periods to detect differences in the impact of the in force of the Basel Conventions on e-waste trade. The results indicate that the Basel Convention generally ...

Guanma Machinery has developed a waste lithium iron phosphate battery recycling machine, achieving safe battery discharge, efficient electrolyte recovery, and precise separation of positive and negative electrode materials ...

As we approach 2025, the global e-waste landscape is undergoing significant changes, driven by updates to the Basel Convention. Effective January 1, 2025, these changes will affect the trade of both hazardous and non ...

The amendments entered into force in January 2021. The Basel Convention also established a Plastic Waste Partnership to mobilise interests and resources and improve the promotion of environmentally sound management ...

The Environment Agency would like to share your views on our proposed technical guidance that sets out the appropriate measures for permitted facilities that store or treat separate ...

China"s industrial regulator plans to launch a major document to guide the production capacity of lithium-ion batteries, which industry experts said will knock out a batch of low-end ...

A team of Chinese researchers has made a groundbreaking breakthrough to revive aging lithium batteries by injecting a "shot" of lithium ions, potentially extending their lifespan from the typical 6-8 years or 1,000-1,500 ...

Nanyang Technological University researchers have milled solar panel glass waste for use in cathodes used in solid state lithium metal batteries. When used as a functional filler in solid ...

Owing to the scarcity of critical metal resources such as lithium and cobalt, as well as the urgent need for environmental protection, the efficient regeneration of cathode materials for lithium ...

This study provides a grave-to-gate life cycle inventory for a hydrometallurgical battery recycling process in which Li-battery waste materials nickel manganese cobalt (NMC), ...

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Traditional data-driven approaches to lithium battery state of health (SOH) estimation face the challenges of difficult feature extraction, insufficient prediction accuracy and weak ...

As companies reevaluate their investments in electric vehicles, many are quietly scaling back production and delaying plant expansions. But the environmental and safety challenges tied to ...

With the flourish of electric vehicles, spent lithium-ion batteries are piling up. The unrecycled batteries will waste valuable metals, such as lithium, nickel, and cobalt, and harm the ...

Abstract: Lithium-ion batteries (LIBs) are subject to very slow charging speed and capacity degradation in low-temperature environments, and are prone to lithium precipitation. Herein, a ...

A team of researchers at Nanyang Technological University in Singapore has developed a process to use solar panel glass waste as a raw material for cathodes in solid-state lithium ...

TAIPEI (Taiwan News) -- Formosa Smart Energy said Tuesday that it completed Taiwan"s first lithium battery recycling pilot line, which is expected to strengthen the nation"s energy supply ...

As the global sustainability movement gathers pace, June 2025 has proven to be a pivotal month for e-waste management and lithium-ion battery recycling. At SIA"s Energy, we believe that ...

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