

## SolarTech Power Solutions

# Lithium battery pack recycling standards



## Overview

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What are the universal waste requirements for lithium batteries?

What are the federal regulations for generators of very small amounts of hazardous waste batteries?

How does the household hazardous waste exemption apply to batteries?

Are electric vehicle batteries considered household hazardous.

The Regulatory Subcommittee of the NAATBatt Battery Recycling Committee chaired by Keith Loch (GM) has assembled this summary of International, United States and Canadian regulations for the handling of used automotive, industrial, consumer and stationary energy storage lithium batteries. The.

In the United States, the recycling of lithium-ion batteries is governed by a combination of federal, state, and local regulations. This complex framework aims to manage the environmental and health impacts associated with the disposal and recycling of batteries. Given the rapid growth in the use.

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US battery regulations focus on safety, environmental protection, and

performance standards. Federal agencies like the EPA and DOT oversee recycling, transportation, and hazardous material disposal. Key laws include the Mercury-Containing and Rechargeable Battery Act, lithium battery transport.

On May 24, 2023, the Environmental Protection Agency (EPA) released a memo (“Lithium Battery Recycling Regulatory Status and Frequently Asked Questions”) clarifying regulatory requirements for spent lithium-ion batteries, under the Resource Conservation and Recovery Act (RCRA). EPA’s memo. Should lithium-ion battery recycling be standardized?

One of the major hurdles in lithium-ion battery recycling is the lack of standardized regulations and policies across different regions. Harmonizing regulations can simplify compliance for manufacturers and recyclers, making the recycling process more straightforward and efficient.

Where can I recycle used lithium ion batteries?

The EPA Used Lithium-Ion Batteries web page offers resources to find a battery recycling location near you. Household hazardous waste is regulated on the state and local level and state regulatory requirements for batteries may be more stringent than those in the federal program. Be sure to check your state's battery waste policies.

Are lithium-ion batteries recyclable?

Yes, lithium-ion batteries are recyclable—but not in household bins. These batteries pose fire and pollution risks and must be taken to certified recycling centers. Proper disposal recovers valuable metals like lithium and cobalt, prevents groundwater contamination, and reduces toxic waste.

Why should we recycle used lithium-ion batteries?

Recycling used lithium-ion batteries (and the devices that contain them) will help address emerging issues associated with the clean energy transition and prevent problems caused by inappropriate battery disposal. End-of-life lithium-ion batteries contain valuable critical minerals needed in the production of new batteries.

What is the setting consumer standards for lithium-ion batteries act?

The U.S. House of Representatives’ Energy and Commerce Committee has advanced the Setting Consumer Standards for Lithium-Ion Batteries Act (H.R.

973), which mandates the Consumer Product Safety Commission to establish federal safety standards for lithium-ion batteries used in micromobility devices. 2.

What is a battery recycling policy?

Although it primarily focuses on these battery types, its framework has influenced the recycling of other batteries, including lithium-ion batteries. Provisions Labeling: Manufacturers must label batteries with the “recycle” symbol. Collection and Recycling: Mandates the collection and recycling of used batteries.

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