

call@recycle°

Leading the charge for recycling."

After the Flames: Navigating Battery Fire Clean-Up and Recovery

12 November 2025 Mark Steadman Call2Recycle

ANNUAL FALL JOINT CONFERENCE

Safety Moment -Charging Management



Call2Recycle's Stewardship Services

- Non-profit founded in 1994 to address the emergence of EPR legislation, operating with a commitment to safety and environmental excellence.
- Funded primarily by battery and battery-containing product manufacturers (our Stewards) and, more recently, fee-based services, to responsibly collect and recycle batteries at end of life across the U.S.
- In the U.S., we're primarily a voluntary program except in certain states (e.g., VT, MN, NY) where we design and administer all features of a battery stewardship program (public education, collection, and recycling) where collections of some (but not always all) chemistries are mandated.

Call2Recycle Capabilities



Stewardship Services

Fulfills manufacturer obligations in the U.S., including compliance with extensive state and federal regulations.



Mid-Large Format Battery Recycling Programs

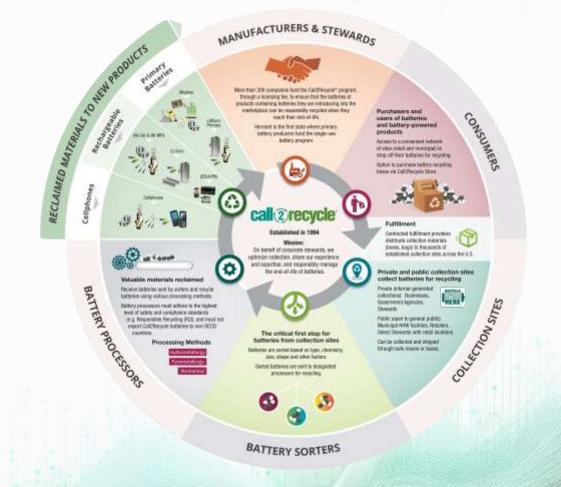
Private or Public Collection Program; small or large quantities; flexible, safe and convenient options; batteries ranging e-bikes to outdoor power equipment to EVs.



Battery Recycling Services & Solutions

Customized safety solutions for battery & product returns, damaged, defective, or recalled batteries; safe handling, storage, and shipping

Call2Recycle Operations Overview



2025 Legislative Update



Federal Requirements for Battery Recycling

In the U.S., federal law requires, with certain exceptions, used nickel cadmium (Ni-Cd) and small sealed lead acid (Pb) batteries to be managed as Universal Waste (40 CFR Part 273). The Universal Waste Rule prohibits handlers (e.g., contractors) from disposing of waste Ni-Cd and Pb batteries and further indicates that these batteries must be sent for recycling.

Electrification Transformation

Call2Recycle's goal with the massive battery growth – across ALL sectors - is to make the safe disposal and responsible management as seamless as we have for consumer batteries for the past 28 years.



- Call2Recycle administers the first, voluntary industrywide e-bike battery recycling program in the U.S. - the first transportation sector united under one battery recycling solution.
- Supported by more than 50 e-bike brands with more than 1,900+ collection sites trained and actively accepting e-bike batteries for recycling.



- Call2Recycle administers the first, voluntary high-energy battery (over 300-watt hours) recycling program in the U.S.
- Supported by seven manufacturers of outdoor power equipment to responsibly recycle batteries at select dealers and national retailers.



- Facilitating pilots with OEMs to design programs to safely and compliantly get batteries to processors.
- Call2Recycle's battery logistics management software platform, GreenTraxEV, allows users to safely and compliantly get batteries from multiple end points to processors or re-purposers.

Synergies between Call2Recycle & Clean Gulf

- Safety-first mindset and leadership
- Training guides success
- Comprehensive partner for proactive planning and remediation solutions
- Awareness and education focused
- Value driven organizations



Battery Fires In The News - Q1 2025 / Q3 2025

- AP "Fire at battery plant in Moss Landing"
- Newsday "E-bike battery starts fire in Salt Lake apartment"
- MSN "6 injured, 1 critically in Lithium battery fire in Queens"
- ABC "Charleston home damaged in; generic Lithium the cause"
- NPR "Massive scrapyard fire caused by Lithium battery in NJ"
- CBS "Couple die in house fire caused by E-bike battery"
- Today "EV Lithium battery fire destroys Morris, IL building" 2021
- Fox2 "Massive fire destroys Interco-Fredericktown plant"

Call2Recycle Remediation Process Overview

- Site assessment
- Safe vs. Compliant
- Identify battery vs. scrap metal
- Identify battery chemistry
- Chemistry and condition on packaging

LITHIUM ION MUST BE HANDLED WITH CARE

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What happens in the Field



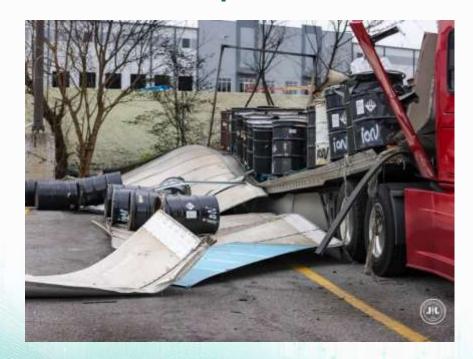


Call2Recycle The Consequence





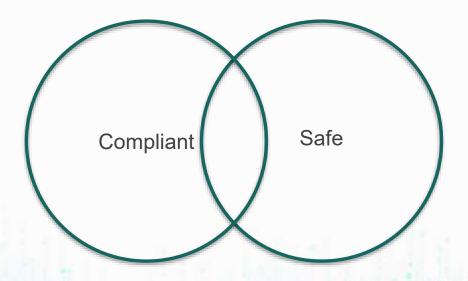
Call2Recycle The Consequence





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Where Safety and Compliance Meet



Call2Recycle Compliant, but not Safe





Call2Recycle Compliant, but not Safe





Call2Recycle Compliant, but not Safe





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Safe, but not Compliant

- Mixed-chemistry EOL batteries shipped in a drum with fire suppressant.
- Mixed-chemistry EOL batteries shipped in a box.
- Damaged batteries shipped without training or shipping papers.
- Multiple damaged (DDR) lithium-ion batteries in a drum with fire suppressant.
- Larger EOL lithium-ion batteries (>300Wh) shipped in a box.



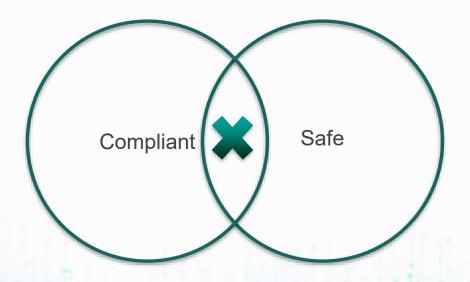
Call2Recycle Special Permits





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Where Safety and Compliance Meet



Post incident battery clean up

KNOW BEFORE YOU GO!

KNOW BEFORE YOU GO!

- On Scene
 - Who's in charge at the scene?
 - Fire Watch needed?
- Financially Responsible Party
 - Who is responsible for the clean up?
 - Has this been cleared with the Insurance Company (if applicable)
- Battery Details
 - SDS
 - Dimensions
 - Condition, etc.
- Staffing
 - PPE Required
 - Properly Trained Staff Electricians, Engineers, Techs

KNOW BEFORE YOU GO!

- Packaging / Equipment
 - Fully regulated hazmat or SP
 - Crates
 - Drums
 - Packing material
 - Discharging Unit
 - Crain
 - Forklift
- Transportation
 - Dry Van
 - Flatbed
- •Recycler
 - Battery Chemistry
 - Other "Stuff"
 - Volume / Delivery Appointments
 - Recycling Certificates

Laguna Hills, CA

Warehouse/Corporate Park

Amazon E-Bike Fulfillment Business

13,800 lbs of fire damaged lithium-ion, E-Bike & E-Motorcycle batteries >300 Wh

DOT Special Permit: SP-21531

\$1.2M Total Costs



Laguna Hills, CA (packaging)





Columbus, OH

Tractor-trailer fire, LTL carrier

10,000 lithium battery pouch cells

Cause of fire: wire terminals were not secured.

\$250k + Total Costs



Morris, IL

66,000 SqFt Battery Warehouse Fire

176,000+ lbs. of fire damaged lithium-ion batteries

213,000+ lbs. of mixed chemistry

Drafted, approved & applied DOT Special Permit: SP-21363

Additional shipping methods included SP-16532 and Fully Regulated DOT compliance per 49 CFR 173.185(f)

\$2.5M Total Costs





As a full-service partner, our goal is to enter situations prepared to address pain points through:

- DOT vetted and approved packaging
- Training and education
- Logistics
- End-site disposition

Sample of Battery Recycling Solutions

End-Of-Life Battery Collection & Recycling



Nested Battery Recycling Kit



Large Battery Recycling Kit



Small Battery Recycling Kit



Battery Recycling Kit (Pallet of 50 Flat Boxes)



55-Gallon Drums



Gaylord Boxes

Damaged, Defective or Recalled (DDR) Lithium-lon Battery Management



Small DDR Li-Ion Battery Recycling Pail



Large DDR Li-Ion Battery Recycling Pail



DDR Li-lon Recycling Kit



DDR Li-lon Recycling Kit



55-Gallon DDR Li-Ion Battery Drum

Product Spotlight

OneDrum

Say Goodbye to the hassle of sorting, bagging, and taping batteries ... Say Hello to **OneDrum**

OneDrum™ allows the safe and efficient placement and transportation of large volumes of consumer single-use AND rechargeable batteries in one drum without sorting by chemistry or individually bagging or taping any battery terminals (including coin cell batteries).



Scan for more info



Product Spotlight

LIBIKs

Lithium-Ion Battery Incident Kit (LIBIK)





The Path Forward



Q&A time

