



call2recycle®
Leading the charge for recycling.™

Nebraska Recycling Conference

PRESENTED BY
Carin Stuart and Sean Finney

Background

About Call2Recycle

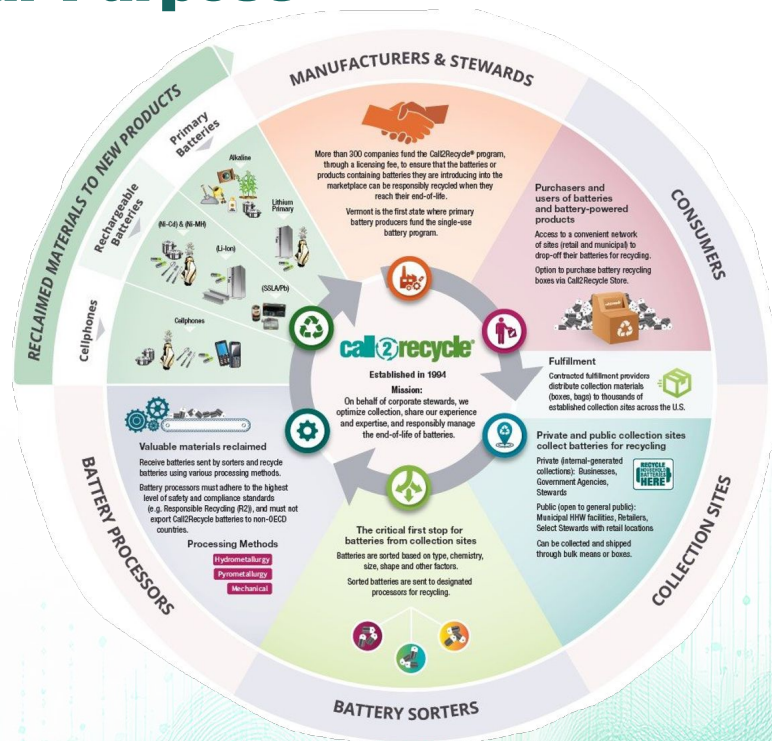


Leading the charge for recycling.™

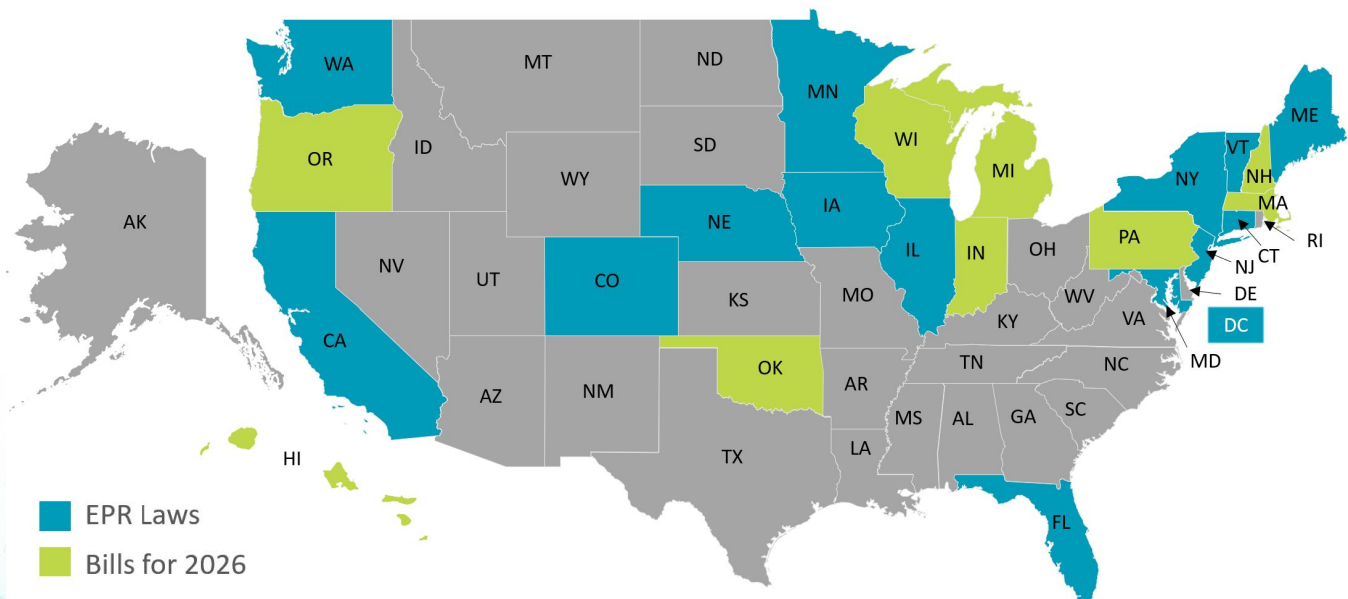
- Non-profit founded in 1994 to address the emergence of Federal Extended Producer Responsibility (EPR) legislation.
- Funded primarily by battery and battery-containing product manufacturers (Stewards) to responsibly collect and recycle batteries at end of life across the U.S.
- Call2Recycle's purpose is to safely transition communities to a battery-powered world through climate-responsible solutions.

Delivering on Our Purpose

How the Program Works



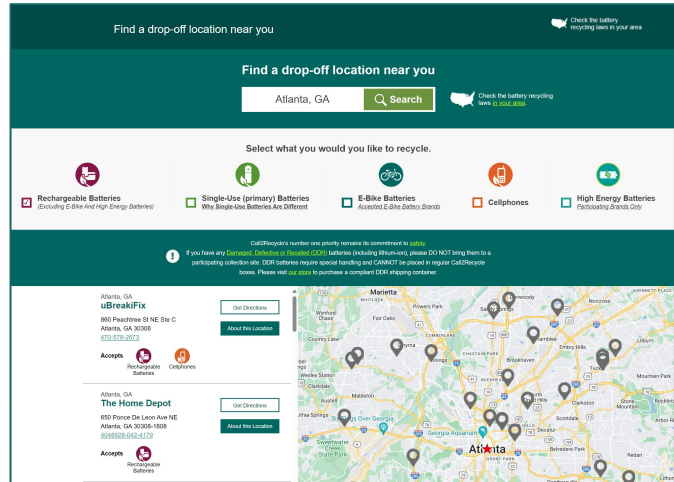
Call2Recycle Operational Programs



Collection

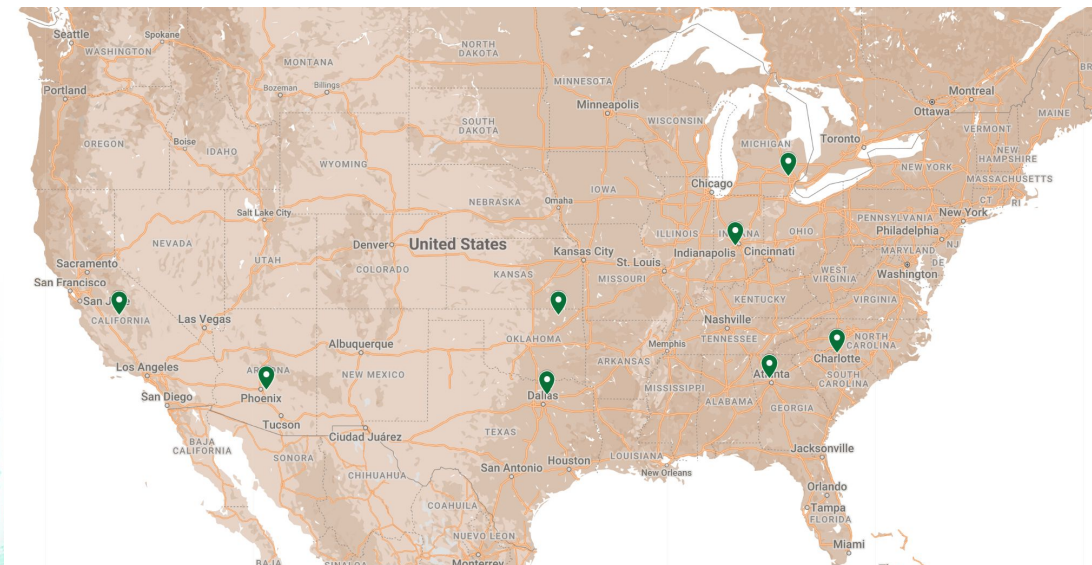
- Call2Recycle has approximately 15,000 partner sites collecting used batteries
- Call2Recycle's collection partners are spread throughout the U.S. and include
 - Public Agencies
 - Retailers
 - Businesses
 - Municipalities

**130 active
collections sites in
Nebraska**



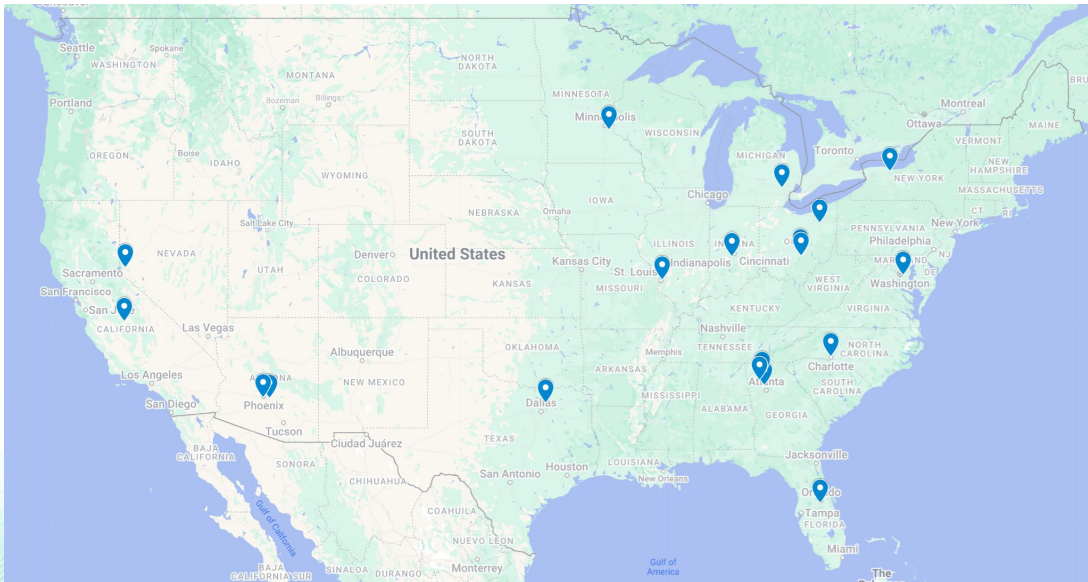
Sorting

Each shipment is weighed and recorded. The batteries are sorted at one of six approved sorters (2 with more than one site), consolidated, and shipped to a Call2Recycle, vetted downstream processor.



Processors

Call2Recycle over a dozen downstream processors across the United States. The processors extract useable metals to be used in the manufacturing of new products in accordance with Responsible Recycling (R2) and Basel Action Network (BAN) standards.



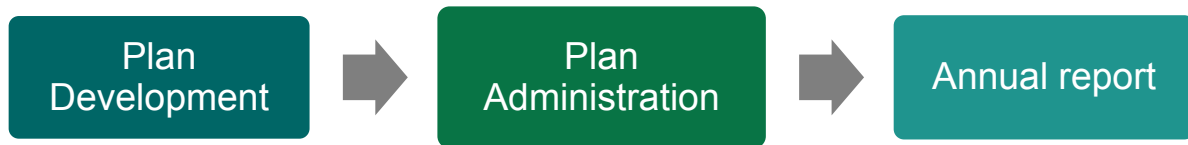
Processing



Each of the US based approved facilities, processes batteries differently, but the general process is outlined below.

- Batteries are unpackaged, discharged, and shredded.
- Shredded material is sent through a recycling process – either a Pyrometallurgical or Hydrometallurgical process which creates a “black mass” (which is then further refined) or separated into metals/minerals.

What does Approved Plan mean?



- ✓ Propose performance metrics for consumer awareness
- ✓ Outline meeting accessibility metrics
- ✓ Development of education & outreach plans
- ✓ Operational details of the program – sorters, processors, C2R oversight/audit
- ✓ Safety plans, including damaged, defective
- ✓ Provide funding mechanism

- ✓ Oversee collection site growth, support, & safety
- ✓ Administer education and outreach plans
- ✓ Administer annual consumer survey
- ✓ Continual improvement of performance metrics
 - ✓ Accessibility
 - ✓ Consumer awareness
 - ✓ Collection targets
- ✓ Meetings with stakeholders

- ✓ Includes summary of results for performance metrics
- ✓ List of active collection sites
- ✓ Assessment of program
- ✓ Plans for coming year

Plan due January 1, 2027

Plan Development

Accessibility

1. 130 sites in state
2. Gain understanding of current activities to include in program (events and sites)
3. Uncover retail partners, local government sites, and others to expand network

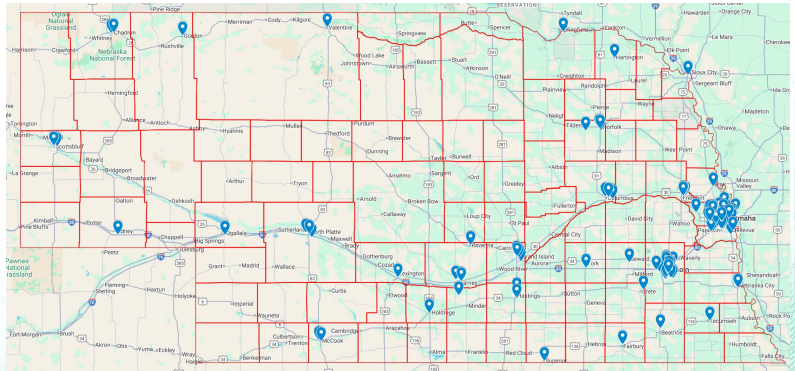
Education and Outreach

1. Include Nebraska in our Fall IPSOS Survey to gain baseline understanding of residents
2. Typically begin “soft launch” December prior to launch

Compliant “supply chain”

Provide a list of sorters and processors with audit and oversight details

**~14,000 pounds
collected in NE in
2024**



NE Plan Timeframe



NE Battery EPR Law Covered Batteries

- 1) Small Format / Consumer Batteries Covered
 - Single-Use up to 4.4 lbs.
 - Rechargeable up to 11 lbs.
- 2) Medium Format Batteries Covered (at trained sites only)
 - Rechargeable Batteries weighing 11-25 lbs. and watt hour ratings from 301 – 2000.
- 3) Damaged, Defective Batteries Covered (at trained sites only)
 - Damaged, Defective Small & Medium Format Batteries Covered.
 - Product/Battery Recalls are handled by each Producer.

Safety

2017: A Pivotal Moment - When “IF” turned to “WHEN”



Safety



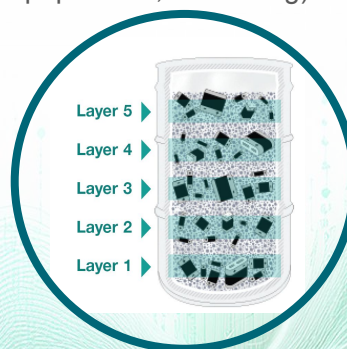


OneDrum™ - the One Solution that will make preparing large volumes of batteries more manageable and efficient.

Battery Management Solution



- Allows transportation of large volumes of consumer single-use AND rechargeable batteries in one drum **without** sorting by chemistry and **without** individually bagging or taping the battery terminals.
- Infused with terminal protection, batteries are protected and cushioned against short circuits, mitigating the risk of thermal events
- Fully satisfies US DOT's requirements (eliminates 49CFR training, special paperwork, or labeling).



Collection Options



Small format/Portable

Medium Format

Damaged & Defective Recycling Options



CellSafe Envelope

- Single li ion battery up to 185 Wh



Small DDR Li-Ion Battery Recycling Pail

- 4.4 lbs of multiple batteries
- 8.8 lbs for a single battery
- Under 300Wh



Large DD Li-Ion Battery Recycling Pail (5G)

- 4.4 lbs of multiple batteries
- 11 lbs for a single battery
- Under 300Wh

thank you!

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