

RECHARGING THE PLANET.
RECYCLING YOUR BATTERIES.™



Consumer Battery Recycling: Addressing a Challenging Material through EPR and muni partnerships: Call2Recycle and Wake County HHW and Recycling Programs

March 2016



WHO ARE WE? – CALL2RECYCLE



- Non-profit, public service organization founded in 1994 to deal with emerging state and federal regulation
- Formerly RBRC-Rechargeable Battery Recycling Corp.
- First battery product stewardship program in North America
- Funded by five largest battery manufacturers and 300 consumer products companies-
- Entirely industry funded- true EPR organization-



WHO ARE WE? – CALL2RECYCLE



- Voluntary stewardship program approved by governments in North America (New York / British Columbia / Quebec / Manitoba / Vermont)
- Collection and recycling program offered at **NO COST** to consumers, retailers and participants; compliant rechargeable battery and cell phone recycling at no cost for municipal recycling programs
- First battery recycling program to obtain Responsible Recycling® (R2) certification and e-Stewards recognition by the Basel Action Network (BAN).
- Collected over 115 million pounds of batteries since 1996 from over 30,000 collection sites.
- Accessibility to actively participating collection drop off sites- 87% of US population within a ten mile radius of a retail or community drop off site for recycling of rechargeable or rechargeable and primary/one time use batteries

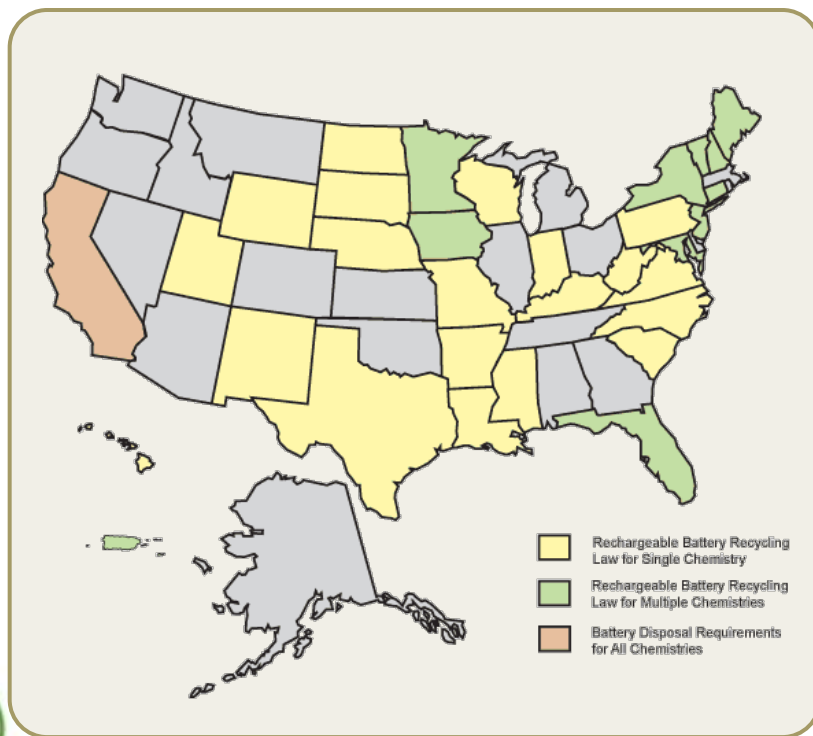




WHY IS BATTERY RECYCLING IMPORTANT?

- While ‘going green’ is commendable, it’s also the law in some states!

Current US Battery Laws



Future

- **Vermont:** First US state to require single-use producers to develop a program for collecting and recycling spent primary batteries
- **Other States to Follow:** Maine, California, Connecticut and Texas have introduced (or have expressed an interest to introduce) bills specific to battery recycling product stewardship





HOW THE PROGRAM WORKS: WHAT WE COLLECT



Nickel Metal Hydride
(Ni-MH)



Nickel Cadmium
(Ni-Cd)



Nickel Zinc
(Ni-Zn)



Small Sealed
Lead Acid
(SSLA/Pb)



Lithium Ion
(Li-Ion)



Alkaline/Lithium Primary



Cellphones





HOW THE PROGRAM WORKS

Small or large quantities? One-time shipment or on-going?
Collection solutions that best meets your needs.

- **Standard collection kit** (ideal for smaller generators)
 - Collection boxes provided
 - DOT compliant (special permit for lithium ion battery shipping)
 - Includes prepaid, pre-addressed shipping labels affixed, bags for protecting each battery for shipping and an instruction sheet.
 - Automatic replenishment – seamless for your convenience.
- **Bulk collection kit** (ideal for sites collecting high volumes of batteries – 500 lbs. or more per shipment):
 - 50 boxes shipped flat on a pallet or drums
 - Option to return individual boxes as they are filled or ship all boxes at once (bulk shipment).
 - Exclusive use of Call2Recycle's online bill of lading (BOL) wizard (simplifies complex shipping requirements and generates necessary documentation)
 - Call2Recycle covers shipping cost



1

COLLECTION

Public Agencies
Retailers
Businesses
Municipalities

Call2Recycle Physical Flow: United States

2

SORTING

Recording and sorting by chemistry

INMETCO *Ellwood City, PA*
WISTRON *McKinney, TX*

3

PROCESS & RECOVERY

Processed by chemistry type

Li-Ion Batteries

SSLA/Pb Dry Cell Batteries

Ni-Cd, Ni-MH, Ni-Zn

Cellphones

GlencoreXstrata

Sudbury, ON
Canada

COBALT RECOVERED

Terrapure VSC

Ville Ste-Catherine, QC
Canada



Eagan, MN

LEAD RECOVERED

INMETCO

Ellwood City, PA

NICKEL-IRON STAINLESS STEEL
& CADMIUM RECOVERED

THE WIRELESS ALLIANCE

Boulder, CO

METALS RECOVERED OR REFURBISHED/RESOLD
PROCEEDS SUPPORT PROGRAM
AND PUBLIC EDUCATION



MUNICIPAL OFFERINGS: GREENVANTAGE

- We partner with local governments to expand and enhance municipal battery collection programs for HHW, muni recycling programs when shipping in bulk

GreenVantage

- Incentive to offset the handling and operating costs of collecting **rechargeable batteries**
- Offered to municipalities who collect at least 2k lbs. of rechargeable batteries annually
- Each bulk shipment, minimum 500 pounds
- Containerization options
- Requires signed Memo of Understanding

GreenVantagePlus

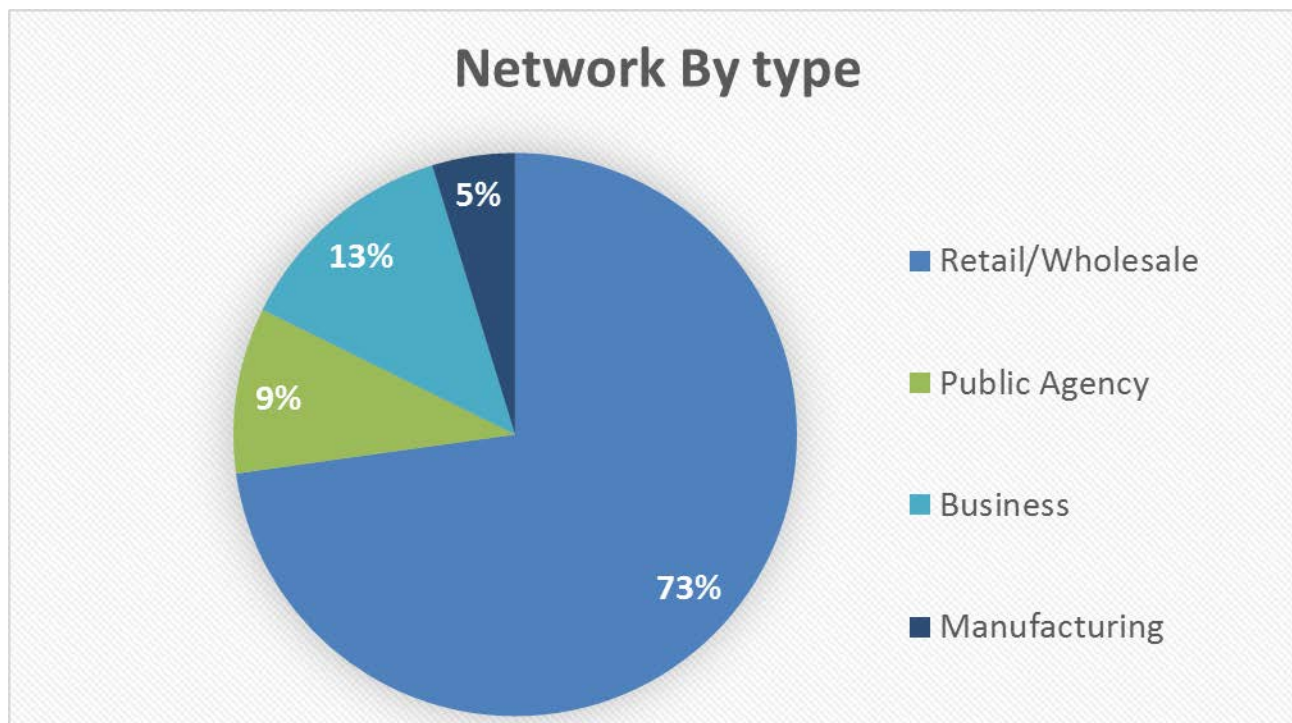
- Incentive to offset the handling and operating costs of collecting **rechargeable batteries**, while **primary batteries** are accepted at a per pound cost
- Offered to municipalities who collect at least 2k lbs. of rechargeable batteries annually
- Containerization options
- Requires signed Memo of Understanding





NC BATTERY RECYCLING: A SNAPSHOT

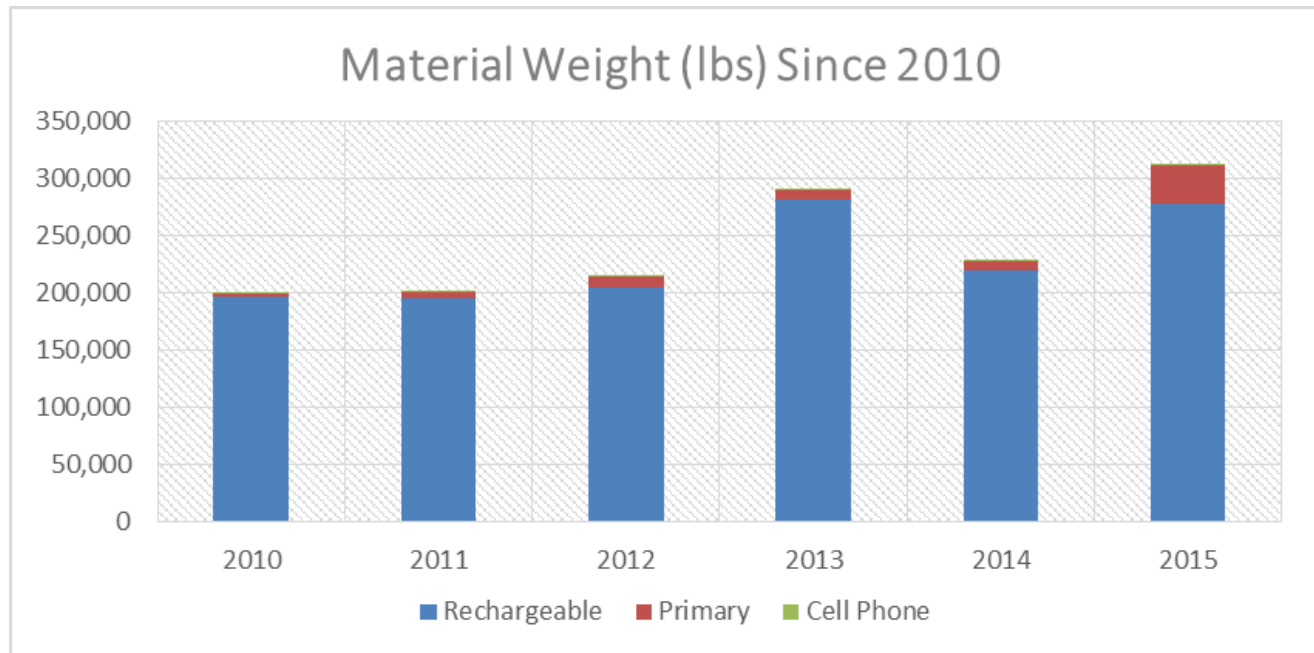
- 637 active collection sites statewide (54% private, 46% public)





NC BATTERY RECYCLING: A SNAPSHOT

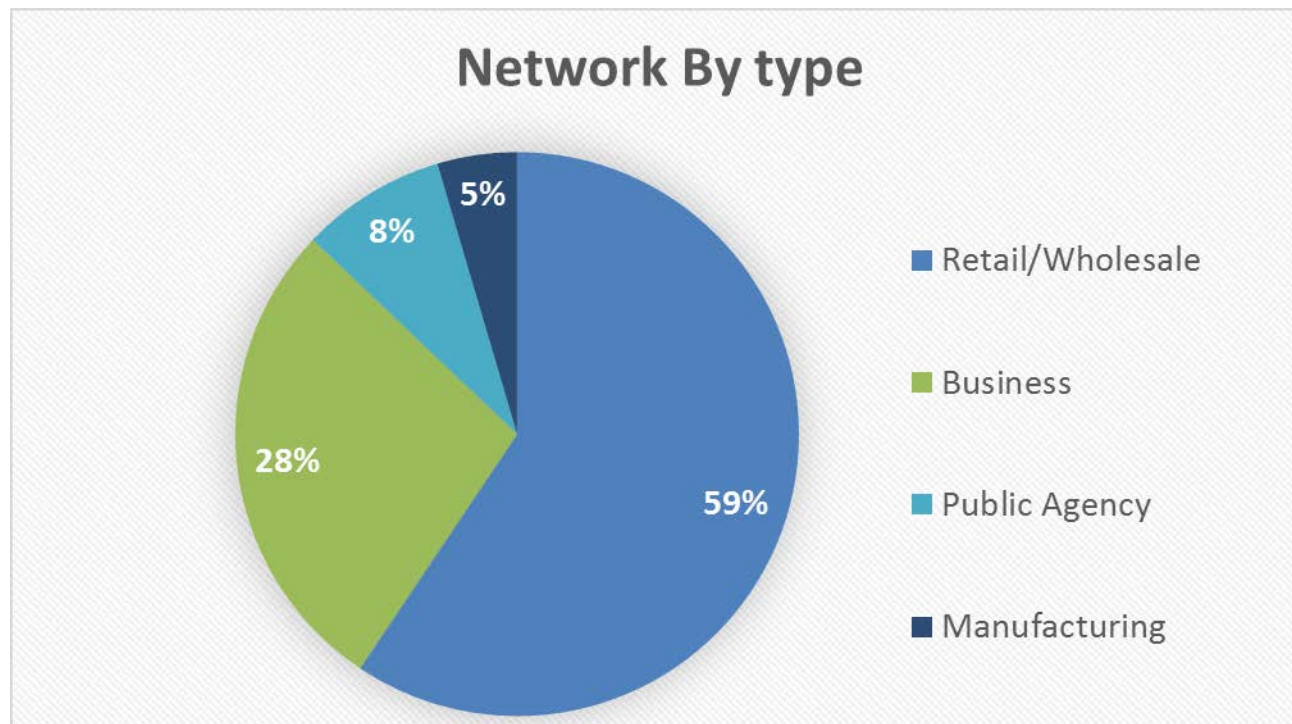
- Since 2010, over 1.45 million pounds of batteries and cellphones have been collected and recycled through the Call2Recycle program





SC BATTERY RECYCLING: A SNAPSHOT

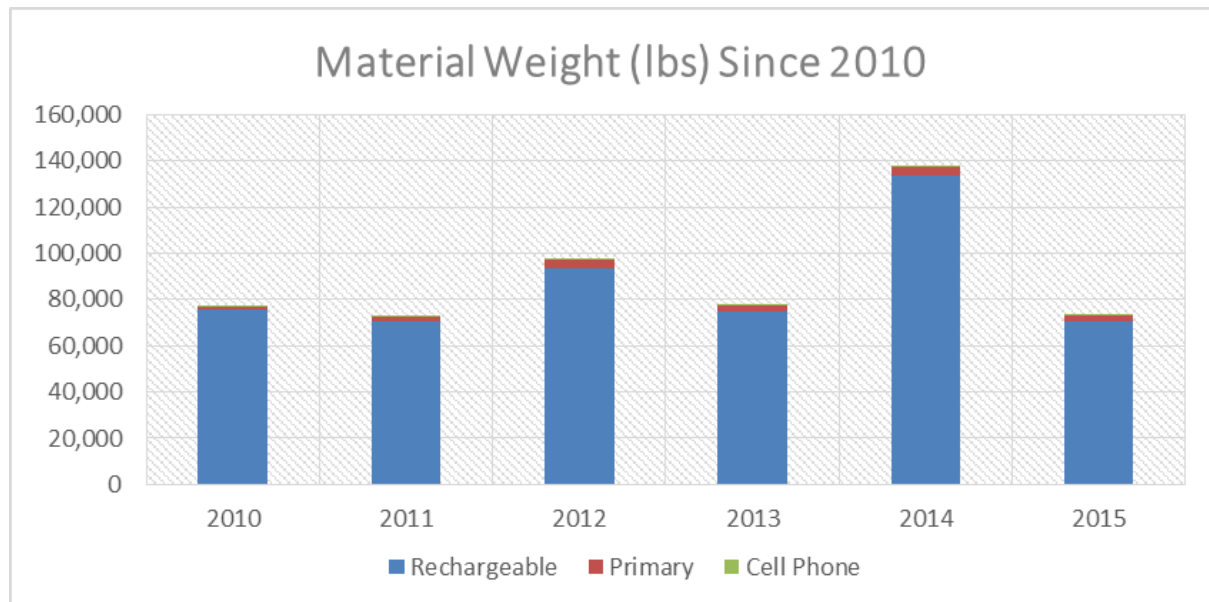
- Close to 300 active collection sites statewide (52% private, 48% public)





SC BATTERY RECYCLING: A SNAPSHOT

- Since 2010, over 530K pounds of batteries and cellphones have been collected and recycled through the Call2Recycle program





CONTACT INFORMATION

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