

2023 & 2024 | MINNESOTA BATTERY RECYCLING REPORT

PREPARED FOR:

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Call2Recycle, Inc.

Changing habits. Inspiring action.™

VI - March 2025

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Executive Summary

Call2Recycle, Inc., which administers the Call2Recycle® program, is a non-profit, public service organization. Since 1996, on behalf of obligated battery and product manufacturers, Call2Recycle has been managing a nationwide consumer battery collection and recycling program.

Pursuant to Minnesota Statute 115A.9155, Disposal of Certain Dry Cell Batteries and Minnesota Statute 115A.9157, Rechargeable Batteries and Products, Call2Recycle is pleased to provide the 2023 & 2024 battery recycling report on behalf of its 200+ Stewards. With the participation of municipalities, retailers, businesses, manufacturers, and Minnesota residents, more than 337,227 pounds of rechargeable batteries were diverted from the state's waste stream during these two years.

Call2Recycle saw an increase in rechargeable battery collections from 2023 to 2024 by 35.16%.

The dominant rechargeable battery chemistry collected in both 2023 and 2024 was Lithium Ion (Li-Ion), 62,000 pounds in 2023 and 81,833 pounds in 2024. Over the two-year period, Lithium Ion (Li-Ion) battery collections increased by 31.99%. These collections are consistent with market trends as consumers upgrade to devices powered by lithium-ion (Li-Ion) batteries and recycle their old ones powered by other battery chemistries, such as Ni-Cd, Ni-MH and SSLA.

Remainder of Report

The remainder of this report provides specifics associated with battery collections, including types of materials collected and the volumes received by participating collection channels. Additionally, Call2Recycle's 2024 Annual Report, including audited financial reports, will be available in June 2025 on its website at www.call2recycle.org/annualreport/.

Battery Recycling Collections

During the two-year period of 2023 and 2024, Call2Recycle collected a total of 337,227 lbs. of rechargeable batteries. Below please find the specific recycling collection data by battery chemistry and industry sector for both 2023 & 2024 (Figure 1).

Figure 1

Material Type	Material Name	2023	2024	% Chg
Rechargeable	Small Sealed Led Acid (SSLA/PB)	32,392	42,451	31.05%
Rechargeable	Lithium Ion (Li-Ion)	62,000	81,833	31.99%
Rechargeable	Nickel Cadmium (Ni-Cd)	39,763	55,289	39.05%
Rechargeable	Nickel Metal Hydride (Ni-MH)	9,246	14,253	54.15%
Primary	Alkaline/Carbon Zinc	114,368	129,192	12.99%
Primary	Lithium	14,356	26,570	82.89%
Cellphone	Cellphone	1,465	1,641	12.71%
Other	Other	1,423	1,770	19.47%
Total		275,013	352,999	28.36%
Total Rechargeable Battery		143,401	193,826	35.16%

Batteries Collected by Industry (Lbs.)	2023	2024	% Chg.
Retail/Wholesale	53,227	73,784	38.62%
Public Agency / Municipality	169,950	203,622	19.81%
Business Services	7,845	31,228	298.06%
Manufacturing	43,991	44,365	0.85%

Below please find the estimated pounds of rechargeable batteries sold into the state of Minnesota during the previous two years. Please note this data is a rough estimate which is based on a compilation of total market research and state population (Figure 2).

Figure 2

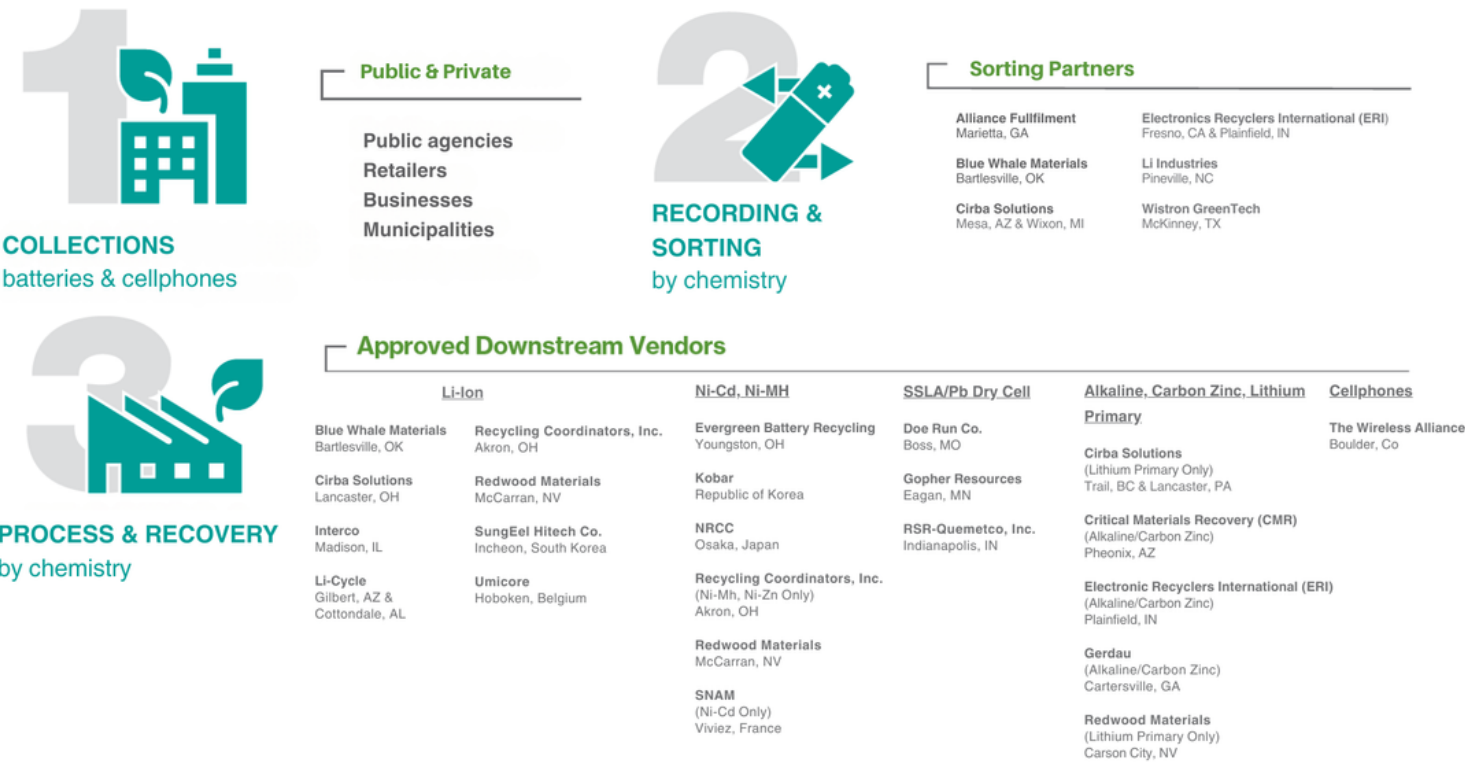
Estimated Rechargeable Batteries Sold	2023	2024
Estimated Pounds of ALL Rechargeable Batteries Sold into the State	4,008,570	3,616,656

Proper Battery Management

Batteries collected from Minnesota residents are transported to sorting facilities where they are separated by battery chemistry and then sent to appropriate specialty processors. These processors extract material to be used in the manufacturing of new products. Below please find the “physical flow” (Figure 3) of where batteries go after they are dropped off at a Call2Recycle participating collection site.

Figure 3

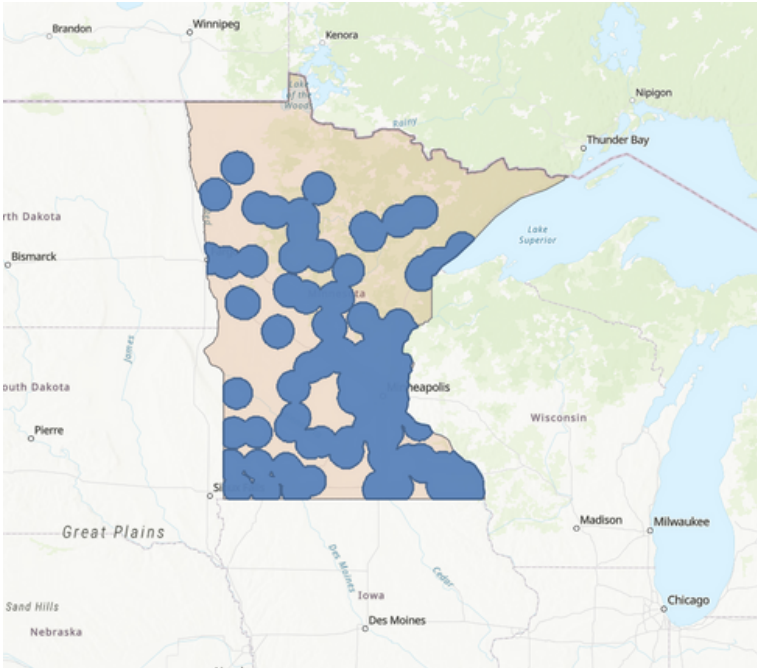
Call2Recycle Physical Flow Chart



Public Recycling Site Accessibility

To optimize the percentage of the U.S. population that has access to battery and cellphone recycling through the Call2Recycle collection site network, Call2Recycle has developed a standard for measuring public recycling accessibility, specifically for batteries and cellphones. This accessibility rate measures the percent of a state's population that lives within a 15-mile radius of an available Call2Recycle drop off location. By year's end 2024, Call2Recycle achieved an 92% accessibility rate in Minnesota. Please see the below map (Figure 4) for specific details.

Figure 4



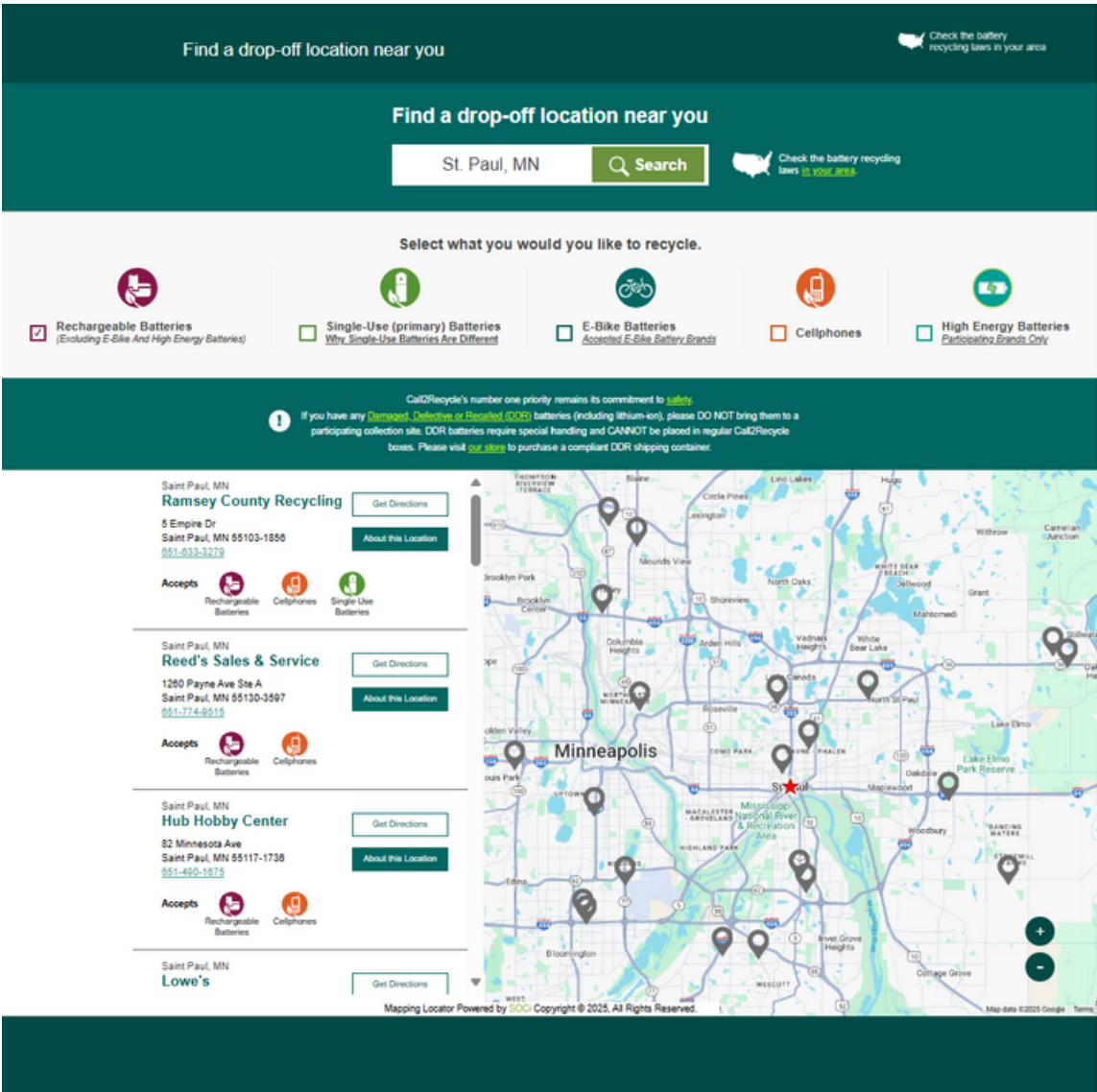
Collection Network		
Site Type	2023 # of Sites	2024 # of Sites
# of Active Public Sites	286	292
# of Active Private Sites	813	828
Public Accessibility Rate	89%	92%

Website Statistics

Call2Recycle’s outreach efforts focus on driving consumers to our interactive web site, which provides educational resources and a zip code locator to identify convenient battery recycling drop-off sites.

One of the most viewed sections of the website is the public drop-off site locator tool (Figure 5). This tool allows Minnesota residents to enter their City/Town or zip code to find the nearest Call2Recycle participating site to recycle their used rechargeable batteries. The locator tool was used 33,822 (2023) and 27,675 (2024) times by Minnesota residents to find a Call2Recycle drop-off location.

Figure 5



www.call2recycle.org

Outreach & Customer-Related Activity

Call2Recycle's Customer Success Team fields hundreds of daily inquiries from collection sites and consumers across the country. Some of these inquiries are from the 1000+ private and public battery collection sites in Minnesota.

Call2Recycle's Customer Success Team fielded the following inquiries from Minnesota:

- Customer Requests Originating from MN Collection Sites/Consumers – 559 in 2023 and 973 in 2024.
- New Collection Site Enrollments – 23 in 2023 and 64 in 2024.
- Box Orders Sent Out / Boxes Received – 2,123/3,270 in 2023 and 2,552/ 3,924 in 2024.

Damaged, Defective or Recalled Lithium-Ion Batteries

The safe handling, transport and disposal of used batteries, specifically lithium-based batteries, continues to be a core tenet of the Call2Recycle program. A difficult to manage subset of lithium-ion batteries are ones that are Damaged, Defective or Recalled (DDR) (Figure 6). These DDR batteries require special handling per U.S. Department of Transportation regulations and cannot be placed in a typical Call2Recycle collection box. In 2023 & 2024, Call2Recycle has provided over 128 DDR kits (Figure 7) to MN collection sites to safely recycle these batteries.

Figure 6



Figure 7



CALL2RECYCLE® Rechargeable Battery Stewards

3M
A2Z DEVELOPMENT CENTER INC.
ACCO BRANDS CORPORATION
ACE COMPUTERS
ACE HARDWARE CORPORATION
ACER AMERICA CORPORATION
AERO DESIGN, INC
ALBERTSONS COMPANIES, INC.
AMAZON.COM, INC.
AMERICAN LAWN MOWER COMPANY
AMERICAN LONGRAY LLC
AMERICAN OUTDOOR BRANDS, INC.
AMERICAN TOPPOWER
APC - SCHNEIDER ELECTRIC
ARLO
ARRIS TECHNOLOGY, INC.
ASUS COMPUTER INTERNATIONAL
AWAY
BACCUS GLOBAL
BALMUDA INC.
BARNESANDNOBLE.COM, LLC
BAYCO PRODUCTS
BEST BUY
BISSELL HOMECARE, INC
BK TECHNOLOGIES
BOSCH EBIKE SYSTEMS
BOSE CORPORATION
BRAUN
BREN-TRONICS, INC.
BROTHER INTERNATIONAL
CANON USA
CAR MATE USA
CHANGZHOU GLOBE TOOLS CO., LTD.
CISCO SYSTEMS INC.
CLARIOS, LLC.
COLGATE-PALMOLIVE COMPANY
CONAIR LLC
CTL
CURRENT LIGHTING HOLDCO., INC.
CUSTOM ACCESSORIES, INC.
CVS Pharmacy, Inc.
DANTONA INDUSTRIES, INC.
DAYE NORTH AMERICA
DEERE & COMPANY (JOHN DEERE)
DELL INC
DELTA FAUCET COMPANY
DELTRAN USA LLC
DLG (SHANGHAI) ELECTRONIC
DOLLAR GENERAL CORPORATION
DOLLAR TREE STORES, INC.
DOOSAN BOBCAT NORTH AMERICA, INC
DORCY INTERNATIONAL
DOREL JUVENILE GROUP
DURACELL DISTRIBUTING INC
DYNABOOK AMERICAS, INC
DYSON
EIKO GLOBAL LLC
ELI LILLY AND COMPANY
EMERSON PROFESSIONAL TOOL COMPANY (RIDGID)
EMPOWER BRANDS, LLC.
ENERGIZER BRANDS, LLC.
ENERSYS
EPSON AMERICA, INC.
EVE ENERGY CO., LTD.
EVOLUTION POWER TOOLS, LLC
FDK AMERICA, INC.
FEIN US
FINISH THOMPSON, INC.
FOTO ELECTRIC SUPPLY CO. INC.
FOURSTAR GROUP USA, INC
FUJIFILM HOLDINGS AMERICA CORP
GARMIN INTERNATIONAL, INC
GETAC INC.
GIANT FOODS
GLOBAL TECHNOLOGY SYSTEMS, INC.
GOOGLE, INC.
GOPRO, INC.
GP BATTERIES INTERNATIONAL LTD.
GS YUASA ENERGY SOLUTIONS, INC.
GUANGDONG GREENWAY TECHNOLOGY CO., LTD
HAMILTON BEACH BRANDS, INC.
HANNAFORD SUPERMARKET
HANSGROHE, INC.
HARMAN INTERNATIONAL INDUSTRIES, INCORPORATED
HD SUPPLY HOLDINGS, INC.
HEWLETT PACKARD ENTERPRISE
HILTI INC.
HMD AMERICA, INC (NOVOLOOP)
HOME DEPOT U.S.A., INC.
HONEYWELL BUSINESS AUTOMATION

CALL2RECYCLE® Rechargeable Battery Stewards

HONEYWELL INTERNATIONAL INC.
HONEYWELL SAFETY PRODUCTS USA, INC.
HONG KONG HIGHPOWER TECHNOLOGY
COMPANY LIMITED
HP INC.
HTC CORPORATION
HUSQVARNA AB
HYPERTECHNOLOGIE CIARA INC.
HYTORC
IDX SYSTEM TECHNOLOGY INC
IKEA US RETAIL LLC
INSPIRED ENERGY, LLC
INTERMETRO INDUSTRIES CORP
INTERNATIONAL BUSINESS MACHINES
INTERSTATE BATTERIES RECYCLING
INTEX RECREATION CORP.
INVACARE CORPORATION
I-PRO AMERICAS INC
IROBOT CORPORATION
ITW CONSTRUCTION PRODUCTS
JASCO PRODUCTS CO., INC.
JETSON ELECTRIC BIKES
JIANGMEN TWD TECHNOLOGY CO., LTD.
JIANGSU DONGCHENG M&E TOOLS CO.,LTD
JLG INDUSTRIES, INC.
JVCKENWOOD USA CORP
KAN BATTERY CO., LTD
KEYENCE CORPORATION OF AMERICA
KRAUS USA PLUMBING LLC
L3HARRIS CORPORATION
LAWNMASTER
LEDVANCE (SYLVANIA)
LEGO GROUP
LENOVO
LG ELECTRONICS
L'IMAGE HOME PRODUCTS INC. (IHP)
LOGIC PREMIUM E-CIG
LOGITECH INC.
LUTRON ELECTRONICS CO., INC.
LUXOTTICA OF AMERICA
MAG INSTRUMENT, INC
MAKITA U.S.A. INC.
MATTEL, INC.
MAX CO., LTD
META PLATFORMS TECHNOLOGIES, LLC

MICROSOFT
MIDLAND RADIO CORPORATION
MILLER MFG CO
MILLERKNOLL, INC.
MOTOROLA MOBILITY, LLC
MOTOROLA SOLUTIONS, INC
MYCHARGE
NEPTUNE TECHNOLOGY GROUP INC.
NETGEAR, INC.
NEWLEADER BATTERY LTD
NIKKISO MEDICAL AMERICA, INC.
NIKON, INC.
NINTENDO OF AMERICA INC.
NOMO INTERNATIONAL, INC.
NORMARK INNOVATIONS INC.
NUNA BABY ESSENTIALS, INC.
NVIDIA CORPORATION
OCOOPA
OLYMPUS CORP OF THE AMERICAS
ORACLE AMERICA, INC.
ORAL-B
OTTER PRODUCTS LLC
PALE BLUE EARTH
PANASONIC CORPORATION
PARTY DRAGON LTD
PELICAN
PELLENC AMERICA, INC.
PHILIPS CONSUMER LIFESTYLE
PITNEY BOWES
POLICE SECURITY
POSITEC TOOL CORPORATION
POWEREX
POWERMAX BATTERY USA, INC.
POYNT
PROTEAM, INC. (EMERSON)
QD LASER AMERICA, INC.
RAZOR
RESIDEO, INC DBA ADEMCO
RICOH IMAGING AMERICAS CORPORATION
RJ REYNOLDS VAPOR COMPANY
ROBERT BOSCH LLC
ROBERT BOSCH TOOL CORPORATION
RRC POWER SOLUTION INC.
RUBIES II, LLC
SAICOME INDUSTRIES LIMITED

CALL2RECYCLE® Rechargeable Battery Stewards

SAMSUNG ELECTRONICS CO	UNIDEN AMERICA CORPORATION
SATO AMERICA INC	VALVE CORPORATION
SAVANT TECHNOLOGIES LLC	VARTA MICROBATTERY INC.
SCOSCHE INDUSTRIES	VERITAS TECHNOLOGIES LLC
SDI TECHNOLOGIES INC	VERKADA, INC.
SENCO PRODUCTS, INC	VERNIER SOFTWARE & TECHNOLOGY
SHARKNINJA	VIBRATEX, INC.
SHARP ELECTRONICS CORPORATION	VIEWSONIC CORPORATION
SHENZHEN FBTECH CO., LTD.	VORNADO AIR
SHENZHEN HIGHPOWER TECHNOLOGY	VTECH COMMUNICATIONS, INC.
SIGMA CORPORATION	WAHL CLIPPER CORPORATION
SIGNATURE BRANDS, LLC	WHILL, INC.
SNAP-ON INCORPORATED	ZEBRA TECHNOLOGIES
SOLVENTUM US LLC	ZIPPO MANUFACTURING COMPANY
SONOS, INC.	
SONY ELECTRONICS, INC	
SOUTHWICK TECHNOLOGIES INC	
SOUTHWIRE COMPANY	
SPRINGPOWER TECHNOLOGY (SHENZHEN) CO., LTD.	
SRAM, LLC	
STANLEY BLACK & DECKER, INC.	
STIHL INCORPORATED	
STORTRONICS	
STREAMLIGHT, INC.	
SUREFIRE, LLC	
TARGET CORPORATION	
TCL NORTH AMERICA	
TCT MOBILE INC	
TECHTRONIC INDUSTRIES CO. LTD.	
TENERGY CORPORATION	
TENNANT COMPANY	
TEST RITE PRODUCTS CORP	
THE COLEMAN COMPANY, INC.	
TOMY INTERNATIONAL, INC.	
TONIES	
TORO	
TOYOTA MOTOR NORTH AMERICA	
TRACTOR SUPPLY COMPANY	
TRANSCOSMOS AMERICA INC.	
TRANSOURCE COMPUTERS	
TRAXXAS	
TREK BICYCLE CORPORATION	
TRUE VALUE COMPANY	
TTEK ASSEMBLIES INC	
ULTRALIFE CORPORATION	