

Call2Recycle Canada, Inc.

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CALL2RECYCLE: BATTERY RECYCLING IN SASKATCHEWAN

October 30, 2020

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Agenda

1. About Call2Recycle Canada
2. Program Launch
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4. Accepted Materials
5. Benefits of Offering Battery Collection
6. How the Program Works
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8. Battery Safety
9. Register to Participate
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1. About Call2Recycle Canada

- Established in 1997, Call2Recycle® is a Canadian-owned, not-for-profit that operates a national battery stewardship program.
- Approved stewardship program in B.C. (2010), Man. (2011), Que. (2012), P.E.I. (2019), Ont. (2020), Sask. (2021).
- Currently operates a voluntary program in Saskatchewan.
 - 190 collection sites throughout the province.
 - 63 per cent of Saskatchewan residents live with 15 km of battery drop-off location.
 - Almost 500,000 kilos of batteries collected in the province since 1997.
- Consumer batteries are responsibly recycled at end-of-life.
- Call2Recycle's battery program, under regulation, will launch on January 1, 2021.

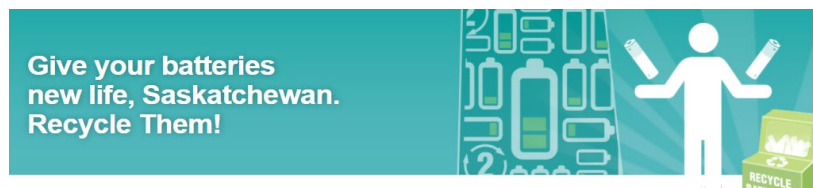


2. Program Launch

- In July 2019, the Government of Saskatchewan included batteries in the list of obligated products under the new Household Hazardous Waste Products Regulation.
- Call2Recycle's Product Stewardship Program (PSP) plan was approved in April 2020.
- Official program launch date under the new regulation is January 1, 2021.
- Program will be funded via Environmental Handling Fees

Key Goals:

- Increase battery collection throughout the province to ensure diversion from the waste stream.
- Enhance accessibility to public battery drop-off locations.
- Increase province-wide consumer awareness and education.



3. Why Recycle Used Batteries?

- Battery recycling keeps harmful materials out of landfill.
 - Used batteries that end up in your community's landfill can contain toxic materials that may harm wildlife and the environment.
- Battery recycling helps keep people and property safe.
 - Responsible battery recycling practices ensure batteries are handled in a way that reduces potential fire hazards
- Battery recycling supports sustainability.
 - Materials reclaimed from recycled batteries including nickel, stainless steel, lithium, aluminum, copper can be used to make new products.



4. Accepted Materials

Call2Recycle accepts dry-cell single-use (primary) and rechargeable batteries weighing less than 5 kilograms each.

Rechargeable Batteries



Single Use Batteries



Not included: Batteries sold in or with a devices managed by the electronics program, wet cell batteries, and lead acid batteries (excluded from the regulation).



4. Accepted Materials... Cont'd

Rechargeable Batteries



(Ni-MH)
Nickel Metal
Hydride



(Ni-Zn)
Nickel Zinc



(Li-Ion)
Lithium Ion



(Ni-Cd)
Nickel Cadmium

Single-Use Batteries



Single Use
Alkaline



Single Use
Lithium Primary



5. Benefits of Offering Battery Collection



- Call2Recycle's battery collection program can be easily incorporated into existing municipal or depot collection programs.
- Easy to implement and helps facilitate and increase residential battery recycling and collection.
- Collection locations are determined by you, consider offering battery collection at: transfer stations, depots, collection events, community centres, or libraries.
- Call2Recycle provide battery collection boxes and covers the cost of transportation.
- Dedicated customer service and resources including a best practices guides, training for battery safety, and signage.



6. How the Program Works

Small Volume Collectors/Generators: Box Program

- Call2Recycle consumer-friendly display box can be used for both collecting and shipping batteries.
- Our patented box with flame-retardant lining holds up to 25 kg of materials.
- Transport Canada shipping permits printed on the box.
- Once the full box is shipped back to be recycled using the prepaid, pre-addressed shipping label, another box is automatically sent free-of-charge.
- Boxes should be kept in a dry location away from the elements.



The Collection Kit



6. How the Program Works...Cont'd

Large Volume Collectors/Generator: Bulk Program

- Bulk shipping for those sites collecting large volumes of batteries.
- Sites can either receive Call2Recycle boxes flat on a pallet (recommended) or can use their own drums.*
- Drums must be 55-gallon UN rated, open-top steel, metal, or plastic drums with snap or clamp lids and must be poly-lined if drum is steel or metal.
- Online pick-up request through bill of lading (BOL) wizard once site has 2 full drums or a min of 20 full boxes stacked on a pallet.
- Program covers cost of transportation.



*Sites must purchase drums, not provided by the program



7. What Happens to the Batteries?



COLLECTIONS
batteries & cellphones

Public & Private

- Public agencies
- Retailers
- Businesses
- Municipalities



RECORDING & SORTING
by chemistry

Sorting Partners

Retriev Trail, BC	Laurentide Re/Sources Victoriaville, QC
Terrapure Hamilton, ON	RMC Port Colborne, ON



PROCESS & RECOVERY
by chemistry

Battery & Cellphone Process Service Providers

Alkaline*, Carbon Zinc	Lithium	NI-Cd	LI-Ion	SSLA/Pb	Cellphones
Teck* Trail, BC	Retriev Trail, BC	NRCC Osaka, Japan	Glencore Sudbury, ON	Terrapure Ville Ste-Catherine, QC	The Wireless Alliance Boulder, CO
RMC* Port Colborne, ON	Inmetco Ellwood City, PA	NI-MH, NI-Zn	Retriev Trail, BC	Tonoll Mississauga, ON	
Inmetco Ellwood City, PA		Inmetco Ellwood City, PA			
Battery Solutions Recovery* Brighton, MI					



8. Battery Safety

- Call2Recycle is committed to the safety of all involved in our battery collection and recycling process.
- Call2Recycle collects, transports, and processes millions of kilograms of batteries nationally each year without incident.
- Fire retardant box liner introduced in Canada January 2018
 - 3rd party, independent lab testing up to 600 degrees Celsius
 - Manufactured from used plastic bottles
 - Reusable & Recyclable



Safety is important during every step of the journey.



8. Battery Safety...Cont'd

BATTERY TYPE / CHEMISTRY



Rechargeable Batteries

Lithium Ion (Li-Ion)
Small Sealed Lead Acid
(SSLA/Pb)

Primary Batteries

Lithium
Alkaline (over 12v)
Button/Coin Cell

When in doubt of the battery type, Call2Recycle recommends taping the terminals or bagging the battery individually.



9. How to Participate

Want to offer battery collection to your residents?

To participate, please visit call2recycle.ca/become-a-collection-partner/ to register or call 1-888-224-9764.

Once registered, your location will be listed on Call2Recycle's locator tool available at call2recycle.ca/locator/

The screenshot shows the Call2Recycle website's locator tool. At the top, there is a search bar for "FIND A DROP-OFF LOCATION:" with a placeholder "Enter Postal Code" and a "REGION" dropdown set to "Canada". Below the search bar is a navigation menu with links: "WHY RECYCLE?", "COLLECTION PARTNERS", "STEWARDS", "SAFETY", "NEWS & RESOURCES", and "CONTACT US". The main heading is "Find a drop-off location near you". A red banner below the heading contains a COVID-19 notice: "Due to the concerns of COVID-19, some drop-off locations may not yet be accepting batteries. Call2Recycle encourages you to contact your local drop-off locations in advance to confirm hours and availability. If sites are limited in your area at this time, click here to learn how to safely store your batteries until options become widely available." The map shows Regina, SK, with 10 drop-off locations marked with numbered pins (1-10). A sidebar on the right includes "PRINT" and "EMAIL" buttons, a search input field containing "Regina S4N 2R9", a "SEARCH FILTER [+]" button, and two tabs: "NEARBY" (selected) and "RECYCLE ON THE WAY". Below the tabs, it says "10 LOCATIONS NEAR YOU" and lists the first location: "1. Regina, SK Home Depot #7052 1867 E Victoria Ave".



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thank you!

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