



BC EPR PROGRAM PLAN CONSULTATION 2018-2022

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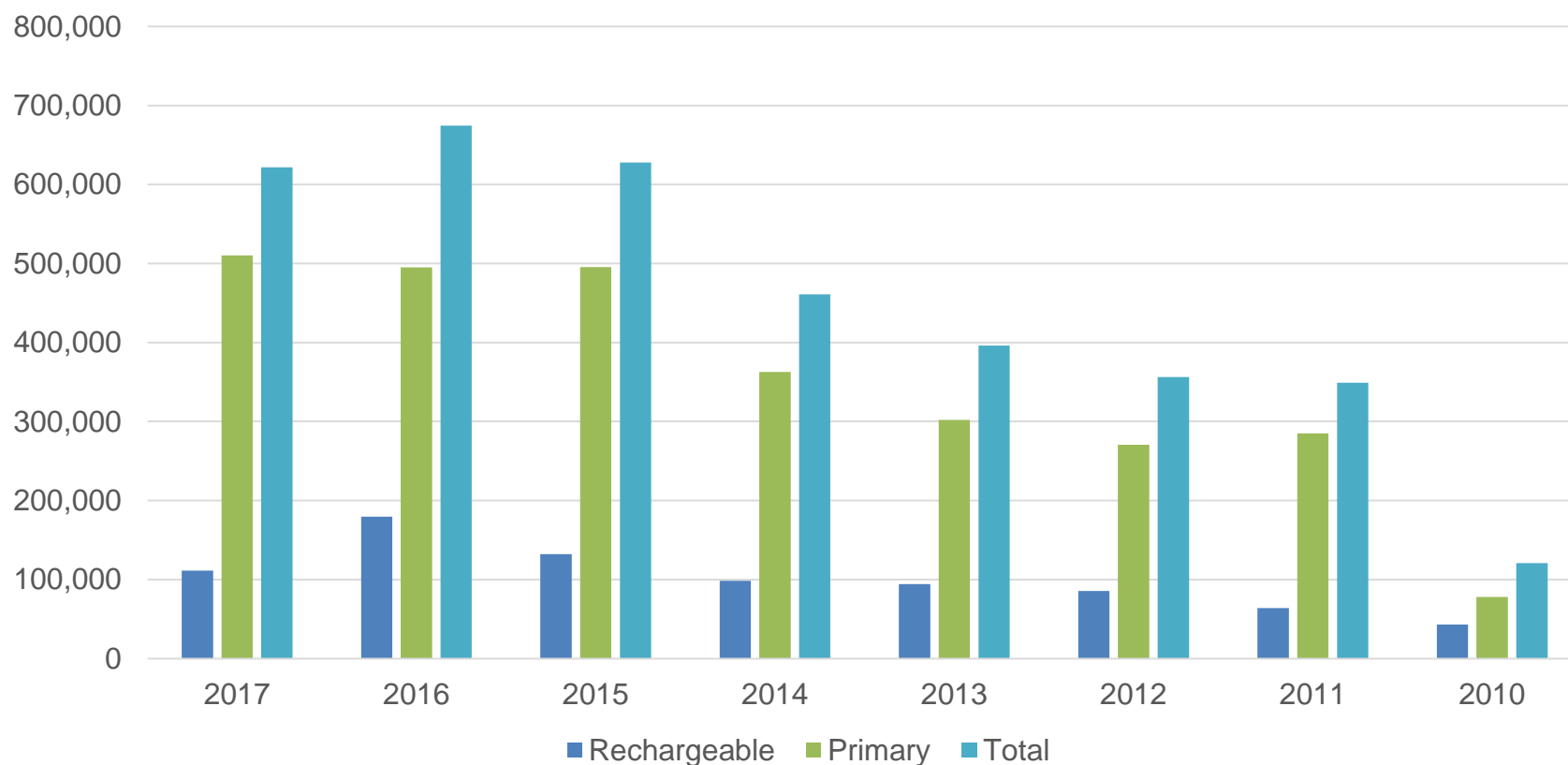
About Call2Recycle

- Canada-wide battery collection and recycling program since 1997.
- Program plan was approved by the BC Ministry of Environment in 2010.
- Original approved program plan covered 2010 – 2014.
- More than 3.6 million kilograms of batteries have been collected and recycled since 2010.
- Collect and recycle stand-alone/replacement primary and rechargeable batteries.
- Collection network includes 1500+ collection facilities in BC with over 600 locations available to the public.
- In 2017, 97% of British Columbians live within 15km of a public collection site.



Collection Results 2010 - 2017

BC Battery Collection 2010-2017



Covered Products

Consumer Batteries - Dry cell - weighing less than 5 kilograms each



Rechargeable Batteries:

- Lithium Ion
- Portable Power
- Nickel Cadmium
- Nickel Metal Hydride
- Nickel Zinc
- Small Sealed Lead Acid



Covered Products

Consumer Batteries - Dry cell -weighing less than 5 kilograms each



Primary Batteries:

- Alkaline
- Carbon Zinc
- Lithium Primary
- Silver Oxide
- Zinc Air



Covered Products

Products covered by Call2Recycle in BC	<ul style="list-style-type: none">• Primary and rechargeable consumer batteries sold as a stand-alone item or for replacement purposes.• Portable power banks.• Damaged or defective batteries sold independent of a device.• Recalled stand-alone/replacement batteries (if they have been sold into the market).
Products <u>not</u> covered by Call2Recycle in BC	<ul style="list-style-type: none">• Cellphones.*• Batteries sold in or with a device covered by another program including damaged and defective.• R&D (not sold into the market).• Motive Batteries• Wet cell batteries• Batteries over 5 kilograms.

*Cellphones were previously covered in the 2010 plan



Producers Paying Costs

- Program covers costs associated with:
 - Transportation, sorting, processing of batteries
 - Promotion and education
 - Administration
- Compensation available to some public facing collection facilities collecting in bulk quantities (min. of 250 kilograms per year in a single shipment).
- Those eligible must enter into an agreement with Call2Recycle.
- Compensation based on:
 - Reimbursement of cost of drums (if applicable)
 - Estimate cost of labour to manage the program
- Box program (for small volume generators) designed to minimize amount of time and labour to manage it. No compensation available.



Compensation will be reviewed during the course of this plan period with stakeholder engagement.



Collection System

- Qualification process for collection facilities to maximize battery returns.
- Any entity which meets our collection facility requirements can participate as a drop-off location.
- Collection facilities can either be open to the public or those that collect batteries internally (private collection facility).
- Public collection facilities are strategically located where they are most likely to be used by consumers.
 - Accessibility
 - Convenience
 - Cost-effectiveness
 - Association to batteries

Two ways to collect:

- Boxes (small volume generators/collectors)
- Bulk (large volume generators/collectors)



Collection System – Recover Rate

Recycling Regulation calls for a 75% recovery rate, which can be a challenge when applied to consumer batteries because:

Multiple programs are managing consumer batteries.

Battery lifespan increasing reducing the need to replace frequently.

Primary batteries likely to be replaced with longer lasting rechargeable batteries.

Batteries are becoming lighter.

Often bought in large quantities with multi-year shelf life. Generally not a 1:1 relationship between purchase and usage.

Consumer-type batteries are typically small and can easily be stored at home; thus, consumers have no immediate urge to recycle them.



Collection System – Recovery Rate

$$\text{Recovery Rate} = \frac{\text{Total kilograms of batteries collected in a year}}{\text{Total kilograms of batteries sold in a year}}$$

➤ **Target:** Recovery Rate 2018 - 2022

Year	2018	2019	2020	2021	2022
Recovery Rate expressed as a percentage (%)	40%	42%	45%	47%	50%



Consumer Accessibility



- Call2Recycle's accessibility metric is based on the percentage (%) of British Columbians residing within 15 kilometers of a public collection facility.
- Permanent public facing collection facilities are preferred over collection events as it encourages consistent recycling behaviour.
- Call2Recycle frequently reviews its accessibility and seeks a location for a permanent public collection facility in underserviced communities.
- Where permanent public collection facilities are not possible, opportunities for collection events will be sought by:
 - Contacting local government to seek opportunities to participate in an established event.
 - Working with other stewardship agencies on multi-program round-up events.
 - Call2Recycle sponsored collection event.
- **Target:** Call2Recycle commits to maintain a minimum of a 95 percent accessibility rate.



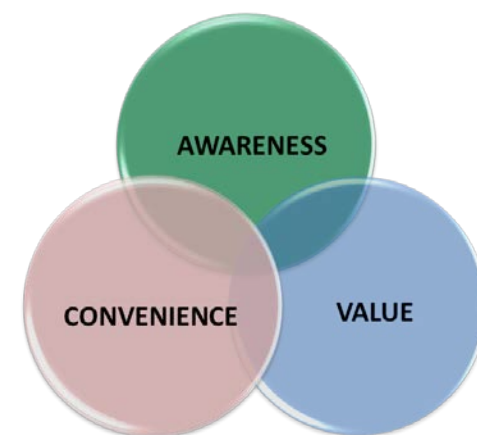
Consumer Awareness

- Consumer awareness is critical to the success of any EPR program.
- Call2Recycle deploys a multi-pronged promotions and education approach to increase the level of awareness and incidences of consumer battery recycling including:
 - Call2Recycle website
 - Social media including Facebook and Twitter
 - Customer service call centre
 - RCBC Recycling hotline and Recyclepedia
 - Point-of-sale brochures available to all retailers (available on call2recycle.ca)
 - Sponsorships and collaborations with like-minded associations
 - Promotions and campaigns
 - Media (Print/Online/Radio/Television)



Consumer Awareness

- Call2Recycle commissioned a study on consumer awareness and recycling incidences in 2017.
- 87 percent of British Columbians surveyed believe that both primary and rechargeable batteries are recyclable, a two (2) percent increase in awareness over 2016.
- 48 percent of British Columbians recycled batteries within the calendar year.



➤ Targets:

- Maintain an awareness level of 87 percent or higher.
- The percentage of British Columbians who recycled consumer batteries each year:

2018	2019	2020	2021	2022
49%	50%	51%	52%	53%



Management of Program Costs

- Environmental Handling Fees (EHF) on primary batteries introduced on February 1, 2017.
- Rechargeable batteries currently funded by manufacturers.
- Anticipated implementation of EHF on rechargeable batteries in 2019 to streamline the program.
- Program funding is used for:
 - Collection
 - Transportation
 - Sorting
 - Processing
 - Promotion and education
 - Administration
- Consolidated finances are audited and made public in the provincial and corporate annual reports.



EHF Schedule for primary (single-use) batteries

Battery Type	BC EHF
AA	\$ 0.06
AAA	\$ 0.06
C	\$ 0.20
D	\$ 0.30
9V	\$ 0.15
Button	\$ 0.06
Small Primary	\$ 0.10
Medium Primary	\$ 0.50
Large Primary	\$ 1.25



Management of Environmental Impacts

Program Level

Call2Recycle undergoes inspections to maintain industry recognized certifications, like those listed below:

- R2 2013: Certifying that management practices are comprehensive (environmental, health and safety, and data security practices).
- ISO 14001: Certifying Environmental Management Standards for the management of the collection, and the distribution to downstream processors, for the recycling of batteries.
- OHSAS 18001: Certifies Occupational Health and Safety Management System for the management of the collection, and the distribution to downstream processors, for the recycling of batteries.



Management of Environmental Impacts

Sorters and Processors:

RFP process is used when selecting service partners.

- Under R2, processors are certified every 3 years, and annual surveillance audits to maintain the certification.
- Annual inspections on facilities that are not R2 certified.
- Must have written policies outlining corporate commitment to environmental management and continuous improvement.
- Complete tracking and documentation of materials in and out of facilities.
- Final destination receipt and disposal documentation/certification, downstream processing material management, residual material management, and residual waste management.



Management of Environmental Impacts

Recycling Efficiency Rate (RER): The amount of material recycled as a percentage of the amount of targeted material collected (inbound) minus reuse and shrinkage. RER will differ by program according to the nature of materials, markets, and processing methods.

➤ Target – Recycling Efficiency Rate

Battery Chemistry	RER Target
Alkaline, Carbon Zinc, Zinc Air	75%
Lithium	50%
Ni-Cd	75%
Ni-MH	75%
Li-Ion	60%
Small Sealed Lead Acid	70%



Dispute Resolution

Where contracts are in place, dispute resolutions procedure is outlined within the agreement. Arbitration will only be used if both parties cannot come to a reasonable solution.

Dispute resolution process:

1.	Once an issue has been raised in writing, representatives from Call2Recycle and the other party will attempt to resolve the issue within 30 days or a mutually agreed upon timeframe.
2.	If the parties cannot come to a resolution within the given timeframe, the two parties will jointly select a third party to arbitrate and settle the dispute with his/her decision. Any arbitration would be consistent with the <i>BC Arbitration Act</i> RSBC 1996.

Call2Recycle will operate in good faith with its partners and will try to resolve a dispute without arbitration.

Regardless of whether a contract is in place, Call2Recycle will follow the dispute resolution procedure.



Summary: Performance Measures - Targets

Recovery Rate	Calculated by total weight collected in each calendar year divided by the total weight sold in the calendar year and expressed as a percentage.					
	Year	2018	2019	2020	2021	2022
	Recovery Rate expressed as a %	40%	42%	45%	47%	50%
Accessibility	Accessibility rate using Call2Recycle's accessibility metric of percentage (%) of the population residing within 15 kilometers of a public collection facility. Call2Recycle commits to maintain a minimum of a 95 percent accessibility rate.					
Consumer Awareness	Maintain an awareness level of 87 percent or higher. The percentage of British Columbians who recycled consumer batteries with a commitment to increase by one (1) percent each year to 2022.					
	Year	2018	2019	2020	2021	2022
	% of British Columbians who recycled batteries in a calendar year	49%	50%	51%	52%	53%



Summary: Performance Measures - Targets

Management of Environmental Impacts:	Recycling Efficiency Rate by Chemistry and Processor	
	Battery Chemistry	RER Target
	Alkaline, Carbon Zinc, Zinc Air	75%
	Lithium	50%
	Ni-Cd	75%
	Ni-Mh	75%
	Li-Ion	60%
	Small Sealed Lead Acid	70%



Summary: Performance Measure – Reporting Commitments

Reporting Commitments	Description
Agency Governance	<ul style="list-style-type: none"> Any changes in Call2Recycle's structure and governance from one year to the next will be disclosed in the annual report.
Collection System and Consumer Accessibility	<ul style="list-style-type: none"> Number of active collection facilities in the province by sector. Number of public and private collection facilities. Number total active collection facilities in the province. Number of collection facilities in each regional district. Total kilograms collected in each regional district. Total weight collected per capita by regional district. Location of collection facilities. Changes in number of collection facilities from previous report. Total kilograms of consumer batteries sold into BC during a calendar year. Total kilograms of consumer batteries collected in BC during a calendar year. Result of the SABC facilitated waste composition audit with respect to consumer batteries. Dates, location, and results of collection events (if applicable).



Summary: Performance Measure – Reporting Commitments

Reporting Commitments	Description
Consumer Awareness	<ul style="list-style-type: none">• The number and type of promotion and education activities within the calendar year.• Number of website hits to the BC page.• Number of BC searches on the Call2Recycle web-based collection facility locator.
Management of Program Costs	<ul style="list-style-type: none">• Independently audited financial statements will be produced annually. These statements will detail revenues and expenditures for fees collected from the sales of batteries in the calendar year.
Management of Environmental Impacts:	<ul style="list-style-type: none">• Product Ends Fate



Questions





Leading the charge for recycling.™

thank you!

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Please send comment to:
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by July 6, 2018