

BRITISH COLUMBIA EMOBILITY RECYCLING GUIDE

eBikes, eScooters, eSkateboards, Hoverboards

MARCH 2022



Leading the charge for recycling.™

CONTENTS

A. BRITISH COLUMBIA EMOBILITY RECYCLING PROGRAM DESCRIPTION	1
B. DEFINITION OF PRODUCTS INCLUDED IN RECYCLING PROGRAM.....	2
C. GENERAL RECYCLING PROGRAM OPERATION	3
D. ENVIRONMENTAL HANDLING FEE (EHF).....	3
E. WHO IS OBLIGATED TO REMIT THE EHF?	4
F. COLLECTION AND RIDER ACCESSIBILITY	5
G. TRAINING	5
H. MARKETING COMMUNICATION	6
I. PUBLIC ANNOUNCEMENTS.....	6
J. RECYCLING PROCESSORS.....	7
K. INSURANCE AND EMOBILITY OWNERSHIP	7
L. JOINING THE RECYCLING PROGRAM.....	7
M. TIMELINE	8
N. TERMS	9
ABOUT CALL2RECYCLE.....	9
CONTACT INFORMATION	9

A. BRITISH COLUMBIA EMOBILITY RECYCLING PROGRAM DESCRIPTION

Call2Recycle will establish an eMobility collection and recycling program in British Columbia that provides a means for riders to recycle their end-of-life eMobility products in a safe and compliant manner. The program will begin March 1st, 2022, in compliance with regulations that will be enforced by the British Columbia Ministry of Environment.

In British Columbia, sporting equipment with electrical or electronic components, including eBikes, eScooters, eSkateboards, and Hoverboards (eMobility), is regulated under the Recycling Regulation Schedule 3, 2 (1)(g). The regulation requires the producers of eMobility products to establish a program to ensure their products are recycled responsibly, in their entirety, at the end of their useful life. In accordance with this section of the Regulation, Call2Recycle will collect and recycle eMobility products in their entirety.

The program will be funded by an Environmental Handling Fee applied to the sale of each eMobility product sold into the British Columbia market. Call2Recycle will use the funds to pay for the collection, transportation and recycling of the eMobility product, along with the training of industry personnel, provision of safety materials to collection sites, and rider communication related to the program.

Call2Recycle will be responsible for:

- Securing applicable regulatory approvals
- Designing and administering training
- Handling third-party logistics for transporting eMobility products
- Enrolling collection sites
- Overseeing the disassembly and downstream management of materials
- Marketing the program to ensure it is successful in reaching industry manufacturers, retailers, and eMobility product owners

B. DEFINITION OF PRODUCTS INCLUDED IN RECYCLING PROGRAM

The applicable products accepted for recycling will be:

- eBikes (including battery and bike)
- eScooters (including battery and scooter)
- eSkateboards (including battery and skateboard)
- Hoverboards

An eMobility product shall be defined as follows:

Electric Mobility Products (eMobility)	A category of battery-powered products that includes eBikes, eScooters, eSkateboards and Hoverboards (see below definitions).
Electric Bikes (eBikes)	A bicycle-style transportation device with an integrated rechargeable battery, typically lithium ion. The drive system can either be activated by pedaling or by a throttle such as a grip-twist, trigger, or button and available in Class 1, 2, or 3, with no motor-input at speeds more than 45km/hr.
Electric Scooters (eScooter)	A rechargeable battery-powered transportation device with a stem and handlebars, designed to be stood on (or standing with a seat rest option) by the operator during travel. Batteries are typically lithium ion. In most cases, the batteries will propel the device with or without human assistance to a top speed of 45km/hr.
Electric Skateboards (eSkateboards)	A battery-powered device with an electric motor where the battery is typically mounted below the deck. The motor is typically attached under the deck or inside the wheels.
Hoverboards	A battery-powered personal transportation device consisting of two motorized wheels connected to a pair of articulated pads on which the rider's feet are placed.

C. GENERAL RECYCLING PROGRAM OPERATION

For end-of-life eMobility products, the drop-off process flow will look like this:



Starting March 1st, 2022, riders will be able to:

- 1) Recycle their eMobility product by requesting a direct pick-up via the Call2Recycle website
- 2) Drop-off their eMobility product at a designated collection facility

Once collected by the transportation carrier, the eMobility product will travel directly to a disassembly partner. Frames, electronics, drive motors, and batteries must be recycled. Other components may be reused or recycled. Disassembled materials will be shipped to the appropriate recycling facilities.

D. ENVIRONMENTAL HANDLING FEE (EHF)

Call2Recycle’s funding mechanism for eMobility products is based on a “fee per unit sold” model referred to as Environmental Handling Fees (EHFs). The fees are set through a budgeting process and then reviewed and approved by the Call2Recycle Canada, Inc. Board of Directors.

The EHF for eMobility products in British Columbia will be **\$15 CAD** per unit sold. This EHF is calculated based on the actual cost to collect and responsibly manage eMobility products at end-of-life in British Columbia. EHFs will be used to fund the program, including but not limited to:

- Promotion and education
- Collection
- Transportation
- Disassembly
- Recycling
- Administration

On a monthly or quarterly basis, participating companies will securely and confidentially report to Call2Recycle (via its password-protected online portal, GreenTrax) their net distributions and/or sales of eMobility products in British Columbia and remit the sum of EHFs.

Call2Recycle will ensure accurate member remittances through a system that includes periodic audits to

verify compliance and completeness of EHF reporting. It will be solely the decision of the individual member whether to charge the EHF as a visible line item on the receipts at the time of sale, or to internalize the EHF into the cost of the product.

Call2Recycle will maintain a reserve fund, where reserve amounts are determined by the organization's Board of Directors. This fund will ensure the stability of the program and the organization's ability to deliver on any future financial obligations that may arise. The EHF will be reviewed annually and may be adjusted up or down depending on the level of surplus on-hand to fund future eMobility recycling needs. eMobility products imported/manufactured in British Columbia and temporarily warehoused and then exported to another country or province do not need to be reported. Only those sold into the British Columbia market need to be reported.

E. WHO IS OBLIGATED TO REMIT THE EHF?

In most instances, the seller of record into the British Columbia market for the eMobility product will be responsible for the per-unit EHF. There may be cases in which it is more appropriate for a different entity to pay the EHF. Below are examples of potential deviations that we anticipate may arise and how Call2Recycle proposes the EHF be managed:

- Company A imports and immediately sells 100% of their eMobility product inventory to Distributor B. In this scenario, a proxy agreement can be signed between A and B allowing B to be responsible for reporting and paying the EHF.
- Company C is an eMobility brand whose independent bicycle dealers import their eMobility products into British Columbia. If Company C is assuming responsibility, Company C may report and remit the EHF on behalf of the independent dealers.
- Company D is a national retailer that: a) imports their own brand of eMobility products and b) retails, but does not import, other national brands of eMobility products:
 - a. Company D will be responsible for reporting and paying the EHF for their branded eMobility products sold into the British Columbia market
 - b. Company D may elect to sign a proxy with each national brand and manage the EHF, or Company D may have the national brands be responsible for reporting and paying the EHF.

Please review the provincial regulations [here](#) to help determine your company's obligation.

F. COLLECTION AND RIDER ACCESSIBILITY

The Call2Recycle program offers an extensive network where end-of-life eMobility products can either be dropped-off for recycling at designated collection facilities, including independent bicycle retailers and depots, or directly picked-up at a rider's residence or a drop-off location.

There is no additional cost to the collector or rider to use either of the above options.

To ensure a robust and optimized collection network, Call2Recycle has focused on the below key considerations when adding collection facilities to the eMobility recycling network:

- **Accessibility** – To ensure an optimal number of collection facilities available based on geography, population density, and ease of access.
- **Convenience** – Facilitate ease of drop-off for riders in urban areas and, ultimately, as products become more prevalent, in rural and remote communities by providing collection services at non-traditional drop-off locations, or recycling/round-up events
- **Cost-effectiveness** – It is necessary to manage the program's cost-to-serve for continued growth and success.
- **Environmental health and safety** – Call2Recycle will work with companies wishing to enroll to promote environmental health and safety.

G. TRAINING

Riders will be provided guidance on the direct pick-up request process with instructions on how to properly recycle the eMobility product through the Call2Recycle network.

Collection points will be provided with process guidelines and instructions, explaining how to process a received eMobility product.

H. MARKETING COMMUNICATION

Consumer awareness is critical to the success of any recycling program and as such, Call2Recycle will deploy a multi-pronged promotion and education approach to increase the level of awareness and incidences of eMobility recycling in British Columbia. Both traditional and digital channels of communications will be used.

The main objectives for consumer awareness campaigns will be to:

1. Educate and Motivate

Inform British Columbia residents:

- a. That eMobility products can and should be recycled
- b. Why it is important to recycle eMobility products
- c. How and where to safely recycle eMobility products

2. Move to action

Demonstrate the ease of accessibility to eMobility drop-off sites and provide options to help the public identify convenient collection locations via online and telephone locators.

The target audiences for these awareness campaigns will include:

BC Residents	Collection Network	Stakeholders
<ul style="list-style-type: none"> • Active people doing short-to-mid distance errands; enthusiast riders who continue to ride as they age; and people who do not ride due to the effort (eBikes) • Young riders aged 18 to 30; and ride-sharing to commute (eScooter) • Young male riders (hoverboards & eSkateboards) 	<ul style="list-style-type: none"> • Collection facilities, including independent bike retailers and others that are participating in collecting, handling, and sending eMobility products to recycle facilities • Direct pick-up service 	<ul style="list-style-type: none"> • Key Influencers (Local Government, Industry and Trade Associations, and Non-Governmental Organizations) • Call2Recycle Members/Obligated Producers • Collectors • Media, Experts, Influencers

I. PUBLIC ANNOUNCEMENTS

Periodically, Call2Recycle will issue public announcements relating to the activity of the program. Manufacturers whose brands may be referenced in the public announcements will be contacted in advance for approval of use of name and/or mark.

J. RECYCLING PROCESSORS

Call2Recycle will contract with approved recyclers to process eMobility products and their individual components at end-of-life. At the time of writing, the available processors to disassemble and recycle eMobility material components include:

Material	Process Service Provider(s)
Metals	Richmond Steel Recycling, Schnitzer Steel
Rubber	Crumb Rubber Manufacturers (CRM)
Plastics	Reclaim Plastics
Electronics & Wiring	Greentec
Batteries	Retriev (Lithium-ion)

Call2Recycle may utilize additional recycling processors in other locations as they become available, provided they meet Call2Recycle’s standards for eMobility product recycling. Upon signing of a working agreement, Call2Recycle will tender this business to obtain the best combination of service, safety, and price.

K. INSURANCE AND EMOBILITY OWNERSHIP

Call2Recycle has and will maintain liability insurance to cover damage originating from eMobility products traveling within Call2Recycle’s network. The insurance starts from the time an eMobility device is handed over to the transportation company and ends when the recycling processor accepts the eMobility device. The values of the insurance will be stated in the contract. Call2Recycle does not take ownership of the eMobility device while traveling within the recycling network.

L. JOINING THE RECYCLING PROGRAM

There are different scenarios under which Call2Recycle and a company joining the eMobility recycling program may enter into an agreement:

- A) A new member will sign a Member Agreement with Call2Recycle, appointing Call2Recycle as the organization to responsibly handle the end-of-life management of eMobility products on behalf of the company.
- B) An existing member will sign an amendment to the existing Member Agreement, appointing Call2Recycle as the organization to responsibly handle the end-of-life management of eMobility products on behalf of the company.

Revenue collected from each company will be pooled together with revenue from all other participating companies and managed as one fund, from which the eMobility recycling program will operate.

M. TIMELINE



PROGRAM LAUNCH MARCH 1st 2022

- Public announcement is made to communicate that collections of end-of-life eMobility products begin
- EPR plan and notice of consultation will be posted to Call2Recycle's website (call2recycle.ca/british-columbia/) and will allow for a 45-day consultation period ending on April 15th, 2022.
- Riders can request a direct pick-up for end-of-life eMobility products
- Independent retailers and recycling depots start signing on as collection sites
- Contracts become available to OEMs



NOTICE OF CONSULTATION MARCH 1st – APRIL 15th 2022

- Call2Recycle will hold three (3) consultation sessions via webinar:
 - 1) **March 22nd, 2022 at 11:00 AM Pacific Time**
The first session will be by invitation to all BCPSC members. Registration is not required.
 - 2) **March 29th, 2022 at 11:00 AM Pacific Time**
Open to all stakeholders. Registration required.
 - 3) **April 5th, 2022 at 11:00 AM Pacific Time**
Open to all stakeholders. Registration required.

The comment period will close on April 15th, 2022



OEM CONTRACT SIGNING MARCH 1st – APRIL 30th 2022



REPORTING & REMITTING JANUARY 1st 2023

- Members begin reporting sales to Call2Recycle and remitting the EHF



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N. TERMS

The EHF is subject to Call2Recycle Board approval and adjustment annually with 90 days' notice.

Terms of payment by the seller of record is net 30 days. Unit sales are reported into GreenTrax, Call2Recycle's online reporting portal, the month following distribution into market. Example: March sales are reported by April 30th and invoice payment is due 30 days after the date of reporting sales.

ABOUT CALL2RECYCLE

Call2Recycle Canada Inc. is committed to protecting and preserving the environment through collecting and recycling consumer batteries, cellphones and eMobility products. Founded in 1997, the not-for-profit organization works on behalf of stakeholders to provide its battery, eMobility and cellphone recycling program, Call2Recycle®. Over 90 percent of people in Canada reside within a 15-kilometer radius of a Call2Recycle drop-off site – making recycling convenient and easy. Since its inception, the program has recycled over 34 million kilograms of batteries, keeping them out of local landfills and recovering the valuable materials that can be used to create new batteries and other products. Call2Recycle meets the highest standards of responsible recycling.

After 24 years and more than 34 million kilograms of batteries collected and recycled in Canada on behalf of a diverse number of industries, Call2Recycle continues to define itself as a leading turnkey, end-of-life battery, and device management partner to over 400 clients.

CONTACT INFORMATION

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Thank you for being a part of this effort to recycle eMobility products!

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