# Battery Extended Producer Responsibility



Suna Bayrakal, Director of Policy & Programs, Product Stewardship Institute Connecticut Coalition for Sustainable Materials Management (CCSMM) Meeting December 13, 2023

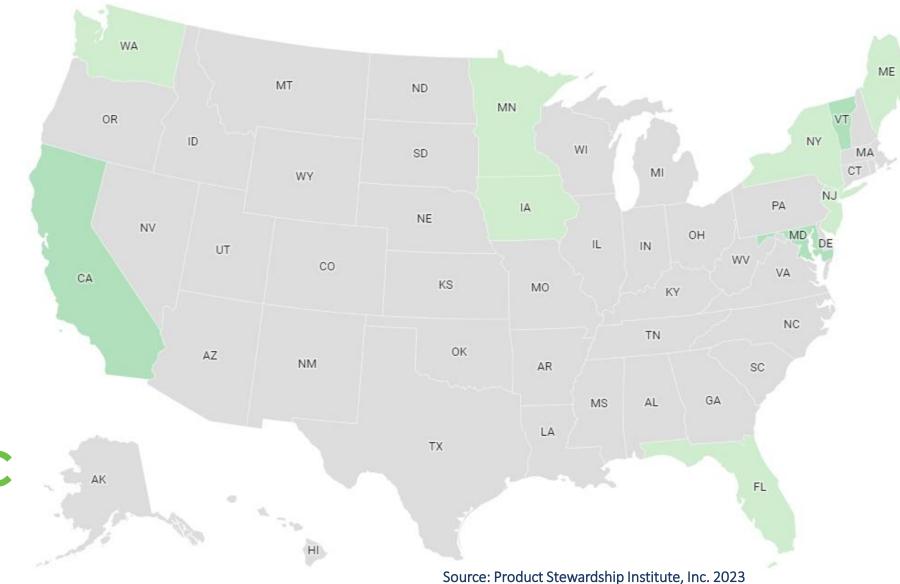
### **PRODUCT STEWARDSHIP INSTITUTE**

Building capacity for product stewardship and EPR in the U.S. for 22 years



# US BATTERY EPR LAWS

10 states + DC





State Battery EPR Laws

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### Why Battery EPR Legislation?

- Growing use in an expanding range of products
- Fire hazards and damage
- Many contained in products that are not recycled and end up in solid waste stream
- Critical minerals lost
- In the US, most existing EPR laws are limited:
  - narrow scope

- CHANGES
- **only** specific **type/chemistry** (e.g., mercuric oxide, Ni-Cd, or rechargeables);
- only specific size (e.g., < 4.4 lbs. for primary, < 11 lbs. rechargeable, < 25 lbs. rechargeable, < 300 Watt-hours); or</li>
- **only** from institutions/**business** (not households)
- lack current best practices as most laws passed before 2000
- EPR provides economic opportunities
  - creates clean jobs + provides sustainable funding for recycling



## Vermont Batteries Content: What's Covered?



#### Single-use (primary) batteries weighing 4.4 lbs. or less

Excluded:

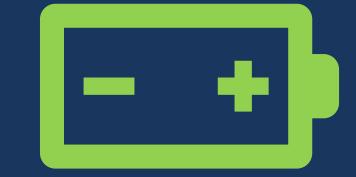
- Not easily removable or not intended to be removed from a product
- Industrial, business-to-business, warranty/maintenance services, or nonpersonal use
- **Sold in a computer**, computer monitor, computer peripheral, printer, television, or device containing a cathode ray tube
- Sold/used in a **medical device** as defined in the 21 U.S.C. § 321(h)



## Vermont Batteries Content: Who's Covered?

Who are the stakeholders that can use the program free of charge?

- Households
- Businesses





## Vermont Batteries Content: Collection Convenience

- Minimum **2 collection facilities in each county** that provide for collection throughout the year
- Accept up to 100 batteries/visit although a collection facility may agree to accept more than 100 batteries/visit.
- Allows all retailers, all municipalities, and all certified solid waste management facilities to opt to be a collection facility

#### Where does collection take place?

- Local government facilities (HHW, libraries, town clerk office)
- Collection events
- Retailers



Transfer stations



## Vermont Batteries Content: Funding

#### Inputs

• Cost internalization

**Outputs** (costs covered by program)

- Transportation and end-of-life management costs
- Education and outreach costs
- Agency funding to oversee and enforce





### Vermont Batteries Content: Performance Goals

#### Stewardship plan must include a **collection rate performance goal (**subject to approval by VT DEC)





## Vermont Batteries Content: Education and Outreach



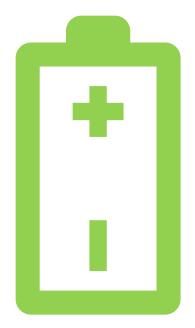
- Stewardship **plan must include an education/outreach** program that:
  - Describes the procedures used to notify businesses, municipalities, solid waste management facilities, retailers, wholesalers, and haulers about the program
  - Notifies the public, at a minimum,
    - That there is a **free collection program**
    - About the location of **collection points** and how to access
- **Producers/stewardship organization** must provide retailers with educational materials describing collection opportunities
- **Retailers** must make educational materials available to consumers



## **Vermont Batteries Drivers**

#### What was the motivation to pursue EPR for single-use batteries?

- To improve and increase **diversion from landfills**
- Contain **valuable materials** that can be recycled (e.g., zinc, manganese).
- Vermonters buy over **10 million** batteries/year and the law would provide **convenient options** for recycling
- EPR program for single-use batteries could also increase collection rates for rechargeable batteries, which contain toxic metals





# Vermont Batteries Process



- Who drafted the bill?
  - VT PSC made up of local govts, VT DEC, and a major hauler
- How long did it take to get the bill passed?
  - First introduced in 2014 and passed the same year
- What was the strategy for gaining support for the bill?
  - Legislator education
  - Communicating with legislators throughout the session
  - Testimony from local governments
- **Support included** local govts, Portable Rechargeable Battery Association (PRBA)
- **Opposition included** the Toy Industry Association



### What Has Batteries EPR Accomplished in VT?



- Highest per capita state collection rates in the US
- 1<sup>st</sup> year: increased single-use + rechargeables collection by >180%
- ~96% population within 10 miles of a collection site



## Washington State Batteries EPR Law Overview

#### Broad Product Scope

- primary, rechargeable up to 25 lbs and 2000 Watt-hours
- damaged and defective batteries
- Robust Performance Goals
  - Recycling efficiency rate minimums
  - Collection goals required
  - Public awareness goals, including subgoals for vulnerable populations
- **o** Minimum Convenience Standards, including for equity/overburdened communities
- Strong Funding Measures
  - $\circ~$  Cost internalization specifically required
  - Eco-modulation fee language
- $\circ~$  Local government costs of collection covered
- $\circ~$  Plan renewal at least every 5 years
- $\circ~$  Agency funding

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- Study of batteries not covered, including larger batteries (e.g., EV and energy storage) and
- embedded batteries



# What's Ahead for Batteries EPR?



- US:
  - DC just launched November 1, 2023
  - Washington to be implemented 2027; medium format batteries by 2029
  - California to be implemented by 2028
  - Interest in several states in introducing battery EPR legislation in 2024 new/amendments
  - Federal Bipartisan Infrastructure Law (2021) has provisions to establish a task force to develop a federal framework for battery EPR
- European Union: Implementation of new Battery Regulation
  - Addresses virtually all batteries
  - Includes ambitious recycling goals, removability requirements, and more
- Canada British Columbia: Expanding to include EVs, energy storage, vapes, and others



### How is PSI Helping Advance Battery EPR?

- Research/Briefing Documents
- Model Legislative Language
- Bill development
- Multi-Stakeholder Facilitated Dialogues
- Strategic Consulting Advice
- Battery Webinars



CONFIDENTIAL DRAFT Elements of Batteries			
		EPR Legislation Revised August 8, 2022	
This document provides a menu of legislative "elements" and options for state and local officials to use to develop setended producer exposibility (EPB) bills for latteries. The document provides guidence on elements that are necessary components of effective state EPR legislation in the United states. The document is being developed by the Product Stewardship institute (P3) with input from P3 state and obtains. The document is beard on best practices. The document will be updated periodically as appropriate. If you are developing an EPR bill for batteries, please contact PSI's Stane Bayrakal (unst Broductstewardship) for additional resources.			
ELEMENT	BASE MODEL	RECOMMENDED BILL LANGUAGE	OPTIONS AND ADDITIONAL CONSIDERATIONS
<ol> <li>COVERD MATERIALS/ PRODUCTS</li> <li>Interials/products that are subject to the EPR program</li> </ol>		<ul> <li>[1] Pattery "means a device that cannots of one or more electrically cannected electrochemical el</li></ul>	<ul> <li>product/product_categories over, time.</li> <li>Exclude lead acid batteries bet require productsrs to standa verification that an existing take back program glace.</li> <li>For states with electronics LPR leves, add <u>DC Battery 1</u> language "covered electronic explorment" exclusion us (DJB) in "Recommended ill language" column: (1) Z electronic explorment, as that term is defined in [states 2].</li> <li>Definitions         <ul> <li>Definitions are removed and back program states and acid acid acid acid acid acid acid aci</li></ul></li></ul>

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## THANK YOU!

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