

# Electric Vehicle Battery Recycling: Policy Updates

PREPARED FOR: House Committee on Climate, Energy, and Environment

DATE: May 5, 2023

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### Overview

Electric vehicle (EV) battery recycling
Recent federal actions
State actions: Washington and California



## **Electric Vehicle Battery Recycling**



#### **EV** batteries

- Require minerals sourced from mining or recycling <sup>a</sup>
- Battery life expectancy 12 to 15 years in moderate climates b



### **Growing EV sector**

- 62,455 zero-emission vehicles in Oregon as of December 2022 <sup>c</sup>
- May make up half of new car sales worldwide by 2035 d



#### **Emerging issues**

- Recycled batteries as domestic source for lithium, cobalt
- · Limited domestic infrastructure for materials management at end of life



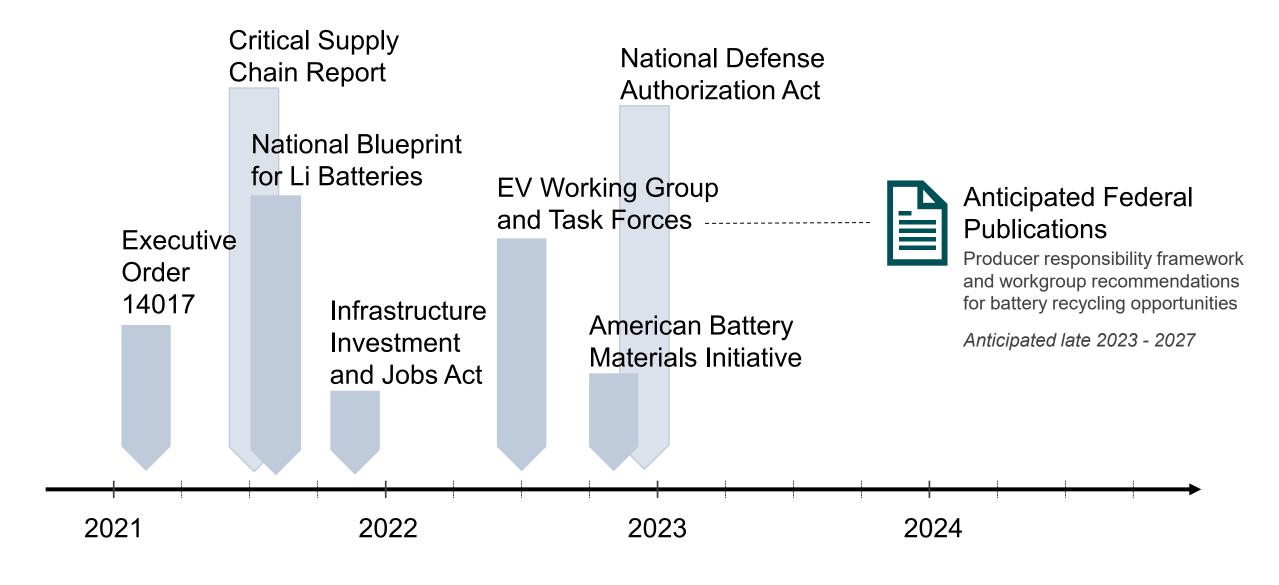
<sup>&</sup>lt;sup>a</sup> Brian Kingston, "Building a North American electric vehicle supply chain," Brookings, February 28, 2023.

<sup>&</sup>lt;sup>b</sup> "Electric Vehicle Benefits and Considerations," U.S. Dept. of Energy Alternative Fuels Data Center, last accessed March 15, 2023.

<sup>&</sup>lt;sup>c</sup> "Oregon Electric Vehicle Dashboard," Oregon Department of Energy, last accessed April 25, 2023. https://www.oregon.gov/energy/Data-and-Reports/Pages/Oregon-Electric-Vehicle-Dashboard.aspx

<sup>&</sup>lt;sup>d</sup> Goldman Sachs Research (February 10, 2023). <a href="https://www.goldmansachs.com/insights/pages/electric-vehicles-are-forecast-to-be-half-of-qlobal-car-sales-by-2035.html">https://www.goldmansachs.com/insights/pages/electric-vehicles-are-forecast-to-be-half-of-qlobal-car-sales-by-2035.html</a>

### **Recent Federal Actions**



# **Neighbor State Activity**

#### **Actions (in part) Status (5/5/23)** Washington Requires Department of Ecology to submit Awaiting Governor's recommendations on EV battery recycling by signature SB 5144-2 November 2023 (preliminary) and April 2024 (final) Requires end-of-life management of all EV batteries Committee on California with emphasis on reuse and repurpose prior to Appropriations hearing SB 615 scheduled May 8th recycling Outlines responsibilities of EV manufacturers, dealers, dismantlers, repairers, and users Most requirements effective January 2025



### Thank you

For questions:

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