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# Electric Vehicle Battery Recycling: Policy Updates

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

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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 <sup>b</sup>



## 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 <sup>d</sup>



## Emerging issues

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



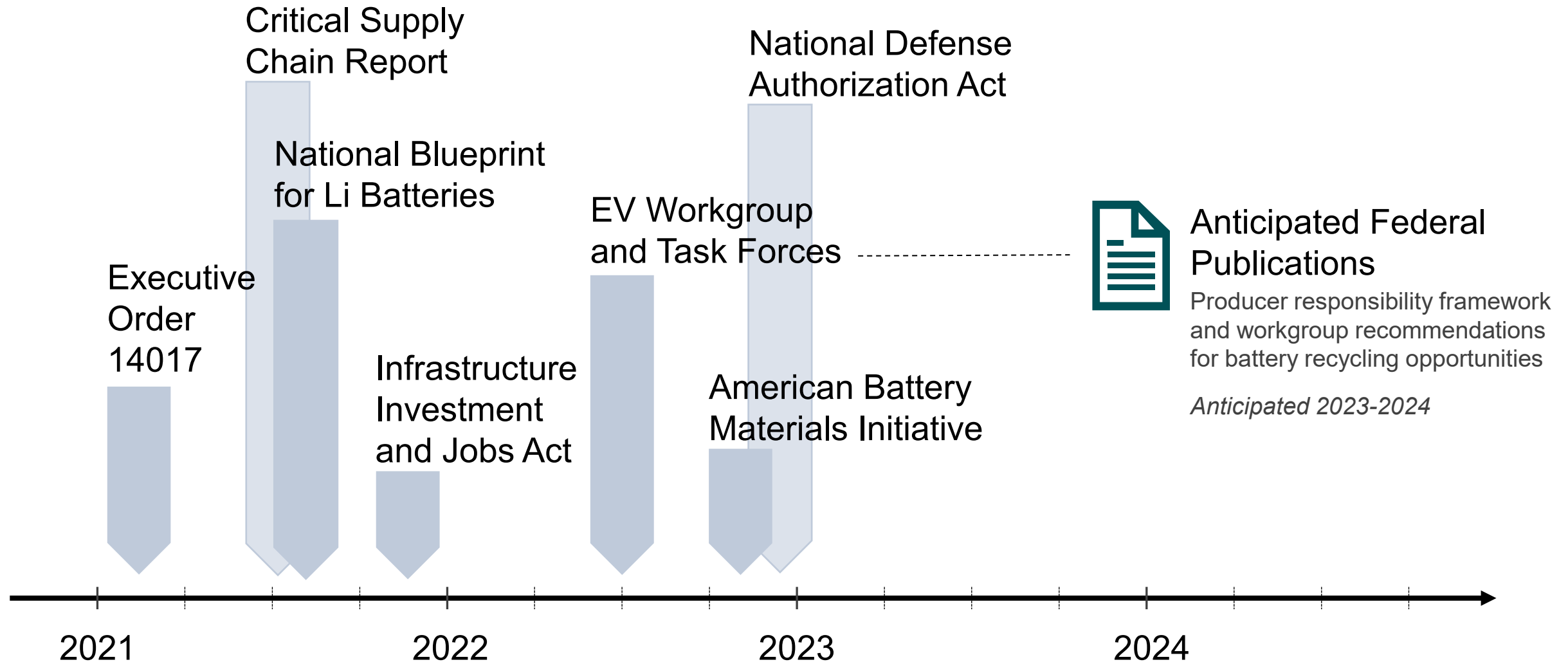
<sup>a</sup> Brian Kingston, “Building a North American electric vehicle supply chain,” Brookings, February 28, 2023.

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



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

# Recent Federal Actions



# Neighbor State Activity

Actions (in part)		Status (4/25/23)
Washington SB 5144-2 	<ul style="list-style-type: none"><li>Requires Department of Ecology to submit recommendations on EV battery recycling by November 2023 (preliminary) and April 2024 (final)</li></ul>	Awaiting Governor's signature
California SB 615 	<ul style="list-style-type: none"><li>Requires end-of-life management of all EV batteries with emphasis on reuse and repurpose prior to recycling</li><li>Outlines responsibilities of EV manufacturers, dealers, dismantlers, repairers, and users</li><li>Most requirements effective January 2025</li></ul>	Referred to Committee on Appropriations with a do-pass recommendation as amended



# Thank you

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