

BATTERY REGULATORY OVERVIEW

Bernie Kotlier, Executive Director, California and Nevada LMCC
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CALIFORNIA REGULATORY HIGH LEVEL

- ☐ In California, lithium ion batteries are considered a universal waste CCR 66273
- ☐ In order for a material to be a Universal Waste it must first be a hazardous waste.
- ☐ UW regulations provides for a lower level of regulatory burden for transportation, storage, and reporting.
- ☐ Batteries must be intact.
- ☐ Does not reduce or impact Department of Transportation Haz Mat requirements or exceptions to the regulations thereof.

BATTERY BILLS IN MOTION

- ❑ There are a few battery bills that have been stayed but are expected to be introduced in the 2020 sessions.
 - ❑ Washington State 2496 - Killed
 - ❑ Washington DC LB 506 – No expected movement until Spring/Summer 2020
 - ❑ Main 1594 – Expected to not pass
 - ❑ California AB 1509 – Still active
- ❑ Most of the bills are aimed at post consumer sized batteries.
- ❑ ~~Washington state calls for batteries weighing up to 25 Lbs.~~
- ❑ All of the bills call for some type of stewardship program
- ❑ Uncertain how the bills may be modified, or changed, and what, if any, impact to EOL EVB's may result.

Information provided by PRBA

CA BATTERY BILLS IN MOTION

❑ California SB 1509

- Would establish the Lithium Ion Battery Recycling Program.
- Has product stewardship component.
- On or before January 1 2022 to adopt regulations to implement the program.
- There has been discussions on providing an industry sponsored all battery recycling bill that can be introduced as an alternative bill.

BATTERY BILLS IN MOTION

❑ California SB 424

- Not a battery bill per se.
- Bans single use vaping products.
- Has product stewardship component.
- Will capture batteries in the collection scheme – think JUUL and similar devices.

❑ California AB 2832

- California's Lithium Ion bill AB 2832 was changed from a battery collection stewardship bill to, instead, form a California Advisory Board that is designated to make recommendations to the CA legislature by 2022.

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CALIFORNIA LITHIUM ION ADVISORY GROUP UPDATE

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BACKGROUND

Assembly Bill 2832 – Dahle

- ❑ Requires the Secretary for Environmental Protection...To convene the Lithium – Ion Car Battery Recycling Committee to review and advise the Legislature on policies pertaining to the recovery and recycling of lithium – ion batteries sold with Motor Vehicles in the state.
- ❑ The bill would require the advisory group to consult with specified entities, and, on or before April 2022 to submit policy recommendations to the Legislature:
 - ❑ Aimed at ensuring as close to 100% of motor vehicle lithium ion batteries are re-used or recycled at end of life and at a cost effective manner.

ADVISORY GROUP COMPOSITION

- ☐ 15 Members
- ☐ A vehicle manufacturer.
- ☐ An organization that represents one or more vehicle manufacturers.
- ☐ An electronic waste recycler or an organization that represents one or more electronic waste recyclers.
- ☐ An automotive repair dealer or an organization that represents one or more automotive repair dealers.
- ☐ An automobile dismantler or an organization that represents one or more automobile dismantlers.
- ☐ An environmental organization that specializes in waste reduction and recycling.
- ☐ A representative of the energy storage industry.
- ☐ A lithium-ion vehicle battery manufacturer.
- ☐ A standards-developing organization that has a focus on automotive engineering.

ADVISORY GROUP GOALS

- ❑ “To advise the Legislature on policies pertaining to the recovery and recycling of lithium-ion vehicle batteries sold with motor vehicles in the state”
- ❑ “Consult with universities and research institutions that have conducted research in the area of battery recycling, with manufacturers of electric and hybrid vehicles, and with the recycling industry”
- ❑ “(By) **April 1, 2022**, the (AG) shall submit policy recommendations to the Legislature ... aimed at ensuring that as close to 100 percent as possible of lithium-ion vehicle batteries in the state are reused or recycled at end-of-life...”
- ❑ “The policy recommendations shall reflect entire life cycle considerations for lithium-ion vehicle batteries ... including:
 - ❑ Opportunities and barriers to the reuse of those batteries as energy storage systems
 - ❑ Best management considerations for those batteries at end-of-life, and
 - ❑ The overall effect of different management practices on the environment.”

ADVISORY GROUP STATUS

- ❑ 1st Meeting held November 18th 2019
 - Brief meeting, introductions, overview of activities and expectations of the AG.

- ❑ 2nd Meeting held January 27th 2020
 - Overview of various battery industry segments
 - AG was involved in the dialog
 - Areas of needed clarification were identified.
 - Schedule and future topics were discussed.
 - Next meeting is scheduled for April 6th.

ADVISORY GROUP PLANNING

2020 AG Meeting Schedule and Agenda:

- ☐ Jan 27 – Background Materials, Goal and Scope
- ☐ April 6th - Strategies for Battery Reuse
- ☐ July 13th - Material Recovery and Battery Recycling
- ☐ TBD (Q4) - Logistics and Infrastructure

ADVISORY GROUP PLANNING

April 6th Meeting Agenda:

Strategies for Battery Reuse

- ☐ Performance potential of second-life batteries
- ☐ Types and scale of applications for reuse
- ☐ Economic and environmental implications
- ☐ Pilots, examples, and early data
- ☐ Innovation and emerging strategies
- ☐ Technoeconomic challenges and other barriers

Slides Provided By Dr. Hanjiro Ambrose, UC Davis

ADVISORY GROUP...NEXT STEPS

- ❑ Identify “intent” of Assembly Bill 2832
 - “Motor Vehicle” has the same definition as in Section 415 of the Vehicle Code
- ❑ **415**
 - (a) A “motor vehicle” is a vehicle that is self-propelled.
 - Potentially a very broad and encompassing purview.
 - Assure that we are focused on the intent of the bill.
 - General consensus is to focus on “Large Format Batteries”.

ADVISORY GROUP...NEXT STEPS

- ❑ Identify individuals within the sphere of specified entities (universities, research institutions, manufacturers of electric and hybrid vehicles, and the recycling industry) in which to consult.
- ❑ This could include:
 - Department of Toxic Substance Control to discuss permitting requirements.
 - Representatives from EU or other jurisdictions.
 - MRF representatives.

ADVISORY GROUP...GENERAL OBSERVATIONS (

- ☐ The group is well represented by a diverse membership.
- ☐ Scheduled meetings may not provide adequate time for full discourse of the topics.
- ☐ Discussions are open to all areas of thought and collaboration.

CALIFORNIA LITHIUM ION ADVISORY GROUP UPDATE

THANK YOU

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