

California Environmental Protection Agency (CalEPA)

CalEPA oversees a variety of agencies, including California Air Resources Board (CARB), which works to restore, protect and enhance California's environment. This plan focuses on non-CARB related work.

Equity: Leverage analysis tools and outreach to strategically focus agency actions on high-impact projects and policies.

CalEPA ZEV MARKET DEVELOPMENT OBJECTIVES

A. Second Life of Batteries: Lithium-ion Car Battery Recycling Advisory Group (Advisory Group).

Key Collaborators: CalEPA, CalRecycle, DTSC, CEC, Governor's Office, UC Davis, private entities (vehicle manufacturers, battery manufacturers, recyclers, and trade organizations), and NGOs (including equity and environmental justice).

Key Results & Actions:

- **Assembly Bill (AB) 2832 Policy Recommendations Report by April 1, 2022.** Per AB 2832 (Statutes of 2017, Chapter 822) CalEPA is to submit AB 2832 Policy Recommendations Report (AB 2832 Report) to ensure as close to 100% as possible of electric vehicle lithium-ion batteries are reused or recycled at their end-of-life in a safe and cost-effective manner. Guiding principles will include alignment with larger environmental equity/justice goals and ZEV objectives. The AB 2832 Report is to be submitted to the California State Legislature by April 1, 2022.
 - i. **Develop Targeted Subcommittees.** By January 31, 2021, the Advisory Group is to develop subcommittees to comprehensively review barriers and opportunities and provide policy recommendations for effective reuse, recycling, and logistics considerations.
 - *Completed – subcommittees were formed during the January 1, 2021 Advisory Group meeting (meeting minutes available [here](#)).* Subcommittees have been reporting on their progress to the larger group during quarterly Advisory Group meetings.
 - *Lessons Learned: Subcommittees were helpful in creating a focused discussion on each of their topics: reuse, recycling, and logistics.*
 - ii. **Present Policy Options Summary to Advisory Group.** By July 31, 2021, UC Davis, under direction of CalEPA, is to consolidate the work of three subcommittees into a summary of policy options and present the summary to the Advisory Group for consideration and approval.
 - *Policy Options Summary completed September 28, 2021:*
 - *At the June and July 2021 Advisory Group meetings, policy options*

were discussed to help UC Davis create a Policy Options Member Survey.

- In August 2021, the Policy Options Member Survey were sent to the Advisory Group for review and input.
 - On September 28, 2021, Policy Options Member Survey results were presented to Advisory Group.
 - *Lessons Learned: The Policy Options Member Survey was helpful to understand and track members' opinions on various policy options. However, compiling policy options to include in the survey took longer than anticipated.*
- iii. **Prepare and Complete Draft of Report.** UC Davis, under direction of CalEPA and relevant stakeholders, is to prepare and complete a draft of the AB 2832 Report for review and approval by the Advisory Group by December 31, 2021.
- *In progress (on track to be completed by December 31, 2021) – The draft AB 2832 Report is currently under review by Advisory Group. The latest version is available [here](#) (last revised on December 1, 2021).*
- iv. **Finalize AB 2832 Report.** By March 1, 2022, the draft AB 2832 Report is to be reviewed and finalized, taking into consideration suggested edits and comments by relevant stakeholders
- The draft AB 2832 Report is on track to be finalized by March 1, 2022.
- v. **Submit final AB 2832 Report to State Legislature.** By April 1, 2022, the AB 2832 Report will be submitted to State Legislature for consideration and use in developing any relevant legislation.
- The draft AB 2832 Report is on track to be finalized and submitted to State Legislature by April 1, 2022.
- B. Disadvantaged Communities Identification:** Determine the state's disadvantaged communities using the California Communities Environmental Health Screening Tool (CalEnviroScreen).

Key Results & Actions:

- **Release CalEnviroScreen 4.0 Update.** Conduct six virtual public workshops in the spring to collect regional input from across the state. Finalize the tool in summer 2021.
 - *Completed – the draft CalEnviroScreen 4.0 was released for public comment from February 19 to May 14, 2021. OEHHA convened a webinar and six virtual public workshops on the draft CalEnviroScreen 4.0, which were held on the following dates:*
 - *Wednesday, April 7, 2021 - 5:30pm to 7:00pm*
 - *Thursday, April 8, 2021 - 5:30pm to 7:00pm*
 - *Monday, April 12, 2021 - 5:30pm to 7:00pm*
 - *Wednesday, April 14, 2021 - 11:00am to 12:30pm*
 - *Monday, April 19, 2021 - 5:30pm to 7:00pm*
 - *Tuesday, April 20, 2021 - 5:30pm to 7:00pm*

- *Summaries of these workshops are available [here](#).*
- *Lessons learned: Offering a variety of meeting times helped increase attendance and engagement.*

California Department of Toxic Substances Control (DTSC)

A. Second Life of Batteries: Continue to support the work of the Lithium-ion Car Battery Recycling Advisory Group.

Key Results & Actions:

1. See CalEPA's "Second Life of Batteries" Objective for more details ([available here](#)).

Ongoing:

- *A representative from DTSC serves on the Advisory Group.*
- *DTSC provides administrative support for Advisory Group meetings and communications.*
- *DTSC is developing a streamlined permit timeline to support reuse, recycling, and repurposing of lithium-ion car batteries.*
- *DTSC coordinates with CalRecycle on hazardous waste and universal waste issues.*

Department of Resources Recycling and Recovery (CalRecycle)

A. Recycling: Promote and enable systems for battery and fuel cell reuse, repurposing, and recycling. Support the work of the Lithium-ion Car Battery advisory group.

Key Results & Actions:

1. See CalEPA's "Second Life of Batteries" Objective for more details ([available here](#)).

Ongoing:

- *A representative from CalRecycle serves on the Advisory Group.*
- *CalRecycle manages the Covered Electronic Waste Consumer Fee and Payment Program and various Extended Producer Responsibility Programs.*
- *CalRecycle supports recycling and market development of recovered materials through various incentives such as grants, loans, and technical assistance.*
- *CalRecycle coordinates with DTSC on hazardous waste and universal waste issues.*

B. Biomass and Organics to Hydrogen or Electricity:

Key Results & Actions:

1. Develop systems to promote and enable the connection of waste resources to California's energy system, including in alignment with States Low Carbon

Fuel Standard regulation.

- *CalRecycle's Senate Bill (SB) 1383 (Statutes of 2015, Chapter 395) regulations, effective January 1, 2022, were designed to divert organic waste from landfills to recycling facilities, including anaerobic digestion and biomass facilities that produce renewable energy that will be utilized as a part of California's energy system and Low Carbon Fuel Standard. These regulations require, among other things:*
 - *Jurisdictions provide organic waste collection services to all residents and businesses and recycle these organic materials, including in anaerobic digestion and biomass facilities that create biofuels and electricity;*
 - *Jurisdictions procure and use the projects made from recycled organic material, such as biofuels, renewable natural gas, and electricity; and*
 - *Counties plan for the necessary organic waste recycling capacity needed to divert organic waste from landfills into recycling activities, including bioenergy.*
2. Continue to support the development of new or expanded organics processing facilities when funding with grants and loans.
- *CalRecycle received \$105 million (2021 - 2022 CA Budget) to support new or expanded organics processing facilities including anaerobic digestion facilities producing renewable energy products, as well as an additional \$20 million to enable the co-digestion of organic waste at publicly owned wastewater treatment facilities producing renewable energy products.*
3. Promote and implement the SB 1383 procurement requirements of recycled organic waste products including transportation fuels.
- *The SB 1383 regulations go into effect on January 1, 2022. To prepare cities and counties to meet their procurement requirements, CalRecycle conducted the following:*
 - *Hosted regional workshops, webinars, and meetings with jurisdictions on the procurement requirements.*
 - *Developed assistance materials including model ordinances, case studies, web pages, and frequently asked questions document outlining the procurement requirements and addressing common questions.*
 - *Sent notifications to all cities and counties on their organic waste product procurement targets.*
 - *Provided assistance to jurisdictions in implementing their SB1383 programs.*