

SB 54 Workshop Needs Assessment



SB 54 (Allen, Chapter 75, Statutes of 2022)

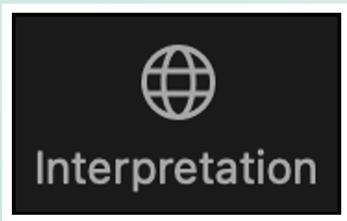
Department of Resources Recycling and
Recovery (CalRecycle)

December 14, 2023

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Focus of Today's Workshop

- This workshop will not address any topics pertaining to regulations or draft regulatory text.
- Please direct any comments or questions related to the proposed concepts to the packaging@calrecycle.ca.gov inbox.
- All previous workshop materials are available on our [webpage](#) under *Past Events*.

Agenda

Opening Remarks

Karen Kayfetz, Branch Chief of the Product Stewardship Branch

Topic I: High-Level Overview of Needs Assessment

Emily Hai, Environmental Scientist in Packaging EPR Section

Part 1: Background and Informational Items

Part 2: Overview of Proposed Studies

Topic II: Available Data & Data Requests

Jeffory McDaniel, Environmental Scientist in Packaging EPR Section

Part 1: CalRecycle Data Sources

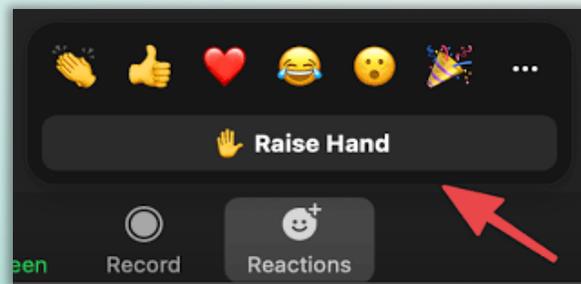
Part 2: Data Requests



***Follow along using the
Discussion Document***

Questions and Comments

- To make a comment in-person, please line up at the podium.
- To make an oral comment via Zoom, please raise your hand and the host will unmute you.



- To make a written comment via Zoom, please use the chat box.

Topic I. Needs Assessment

**Department of Resources Recycling and Recovery,
Packaging EPR Section**

Emily Hai
Environmental Scientist

Overview of Presentation

- **Part I: Background and Informational Items**
 - Overview of Needs Assessment
 - Needs Assessment Development
- **Part II: Overview of Proposed Studies**
 - Scope of Proposed Studies



Follow along using the Discussion Document

Part 1. Background and Informational Items

Needs Assessment – Summary of CalRecycle Responsibilities

- CalRecycle will develop the needs assessment through a collaborative process with the PRO and a broad diversity of interested parties, including local jurisdictions, recycling service providers and processors– PRC 42067(d).
- The needs assessment must be developed through a public process including at least one public meeting at which the PRO, the advisory board, and any interested members of the public are able to provide input – PRC 42067(g).
- CalRecycle must update the needs assessment every five years, or as necessary – PRC 42067(a).

Needs Assessment – Summary of Producer Responsibilities

- PRO plan must describe how to implement actions and investments laid out in the needs assessment – PRC 42051.1(b)(1).
- PRO plan and budget must include consideration of the needs assessment and any recommended investments – PRC 42051.1(i)(1).
- Reimburse CalRecycle for the costs of developing needs assessment – PRC 42067(b).

Needs Assessment Evaluations

- PRC § 42067 outlines the requirements of the statewide needs assessment, which will be designed to determine the actions and investments needed for covered material to meet the requirements of SB 54.
- PRC § 42067(e) outlines 16 mandatory evaluations.

Needs Assessment Development

- Needs assessment will be completed through combination of contracted studies and analyses conducted by CalRecycle
- To ensure the needs assessment reflects the diverse needs faced by California's urban, suburban, and rural communities, and different socioeconomic perspectives, CalRecycle will collaboratively develop the needs assessment with interested parties, the PRO, and Advisory Board
- For more information, visit the [Needs Assessment webpage](#).



Contracted Studies for Needs Assessment

- For more information on CalRecycle's contracting process, visit calrecycle.ca.gov/contracts.
- Entities interested in receiving updates on upcoming contract solicitations for the needs assessment should email packaging@calrecycle.ca.gov to be added to the Potential Bidder List. Please include **[Potential Bidder List]** in the email subject line and include your organization's name and contact information.

Part 2. Overview of Proposed Studies

NA Item 1: Proposed Studies (1/3)

- The preliminary needs assessment will be completed through a series of studies covering the analyses required in PRC 42067(e).
- The first statewide needs assessment will be comprised of five studies.
- Each study:
 - Has multiple objectives related to an overarching topic
 - Will require multiple analyses – some to be completed by CalRecycle staff and others to be completed through contracted studies
 - Addresses multiple required evaluations from PRC 42067(e)

NA Item 1: Proposed Studies (2/3)

Study Name	Proposed Budget	Approximate Contract Solicitation Date
#1: Source Reduction Baseline Study	\$500,000	Early 2024
#2: Collection, Processing, and End Markets Study	\$2,200,000	Early/Mid 2024
#3: Source Reduction and Covered Material Design Study	\$1,200,000	Mid/Late 2024
#4: Consumer Education and Access Study	\$100,000	Mid/Late 2024
#5: Current and Needed State of Funding and Statutory Provisions Study	N/A (no contracted portion – internal)	N/A

Study #1: Source Reduction Baseline Study (1/2)

Strategy for Completion: Contract

Proposed Contract Details:

- **Budget:** \$500,000
- **Type of Contract:** Secondary Request for Proposal (RFP)
- **Contract Solicitation Date:** Early 2024

Included Evaluations – PRC 42067(e)...

- (e)(3): (C) & (E)
- (e)(5): (E) & (I)

Study #1: Source Reduction Baseline Study (2/2)

Contracted Study Objectives

- Estimate of the weight and number of plastic components of plastic covered material for the baseline year 2023
- Gather information about producers of covered material

Internally-Conducted Study Objectives

- Not Applicable

Study #2: Collection, Processing, and End Markets Study

Strategy for Completion: Internal + Contract

Proposed Contract Details:

- **Budget:** \$2,200,000
- **Type of Contract:** Secondary Request for Proposal (RFP)
- **Contract Solicitation Date:** Early/Mid 2024

Included Evaluations – PRC 42067(e)...

- (e)(2): (B) - (E) and (G)-(K)
- (e)(3): (A),(B),(D)
- (e)(5): (A),(B) and (F)

Study #2: Collection, Processing, and End Markets Study – Part 1 (Recycling & Traditional Recyclables) (1/2)

Contracted Study Objectives

- Evaluate the current state of material flow through collection (curbside and non-curbside), processing, and end markets, including information on facility operations and market share
- Analyze contamination sources and impacts across collection, processing, and end markets, and identify strategies to reduce contamination
- Evaluate existing end market technologies, products, and recycling yields
- Evaluate potential expansions and technological enhancements to collect and process covered materials including estimated investments
- Analyze the actions and investments needed to ensure recyclable materials are delivered to responsible end markets where possible

Study #2: Collection, Processing, and End Markets Study – Part 1 (Recycling & Traditional Recyclables) (2/2)

Internally-Conducted Study Objectives

- Approximate recyclable feedstock flows within the state and applicable end use outflows
- Analyze innovative technologies such as artificial intelligence
- Evaluate residential curbside collection of covered materials by jurisdiction
- Evaluate large-volume transfer-processor acceptance and aggregation of covered materials
- Characterization of covered material sold to processors and end markets as recycled aggregate
- Material flows within and out of the state to processors and end markets

Study #2: Collection, Processing, and End Markets Study – Part 2 (Organics Recycling and Compostables) (1/2)

Contracted Study Objectives

- Evaluate the current state of material flow through collection (curbside and non-curbside), processing, and end markets, including information on facility operations and market share
- Analyze contamination sources and impacts across collection, processing, and end markets, and identify strategies to reduce contamination
- Evaluate potential expansions and technological enhancements to collect and process covered materials including estimated investments
- Analyze the actions and investments needed to ensure compostable covered materials are delivered to responsible end markets where possible

Study #2: Collection, Processing, and End Markets Study – Part 2 (Organics Recycling and Compostables)

Internally-Conducted Study Objectives

- Analyze acceptance and processing of covered materials including materials ending up as residuals
- Assess processing capacity and end markets for organics recycling of covered materials

Study #3: Source Reduction and Covered Material Design Study (1/3)

Strategy for Completion: Internal + Contract

Proposed Contract Details:

- **Budget:** \$1,200,000
- **Type of Contract:** Secondary Request for Proposal (RFP)
- **Contract Solicitation Date:** Mid/Late 2024

Included Evaluations – PRC 42067(e)...

- (e)(2): (G)
- (e)(3): (B), (C), & (E)
- (e)(5): (E)

Study #3: Source Reduction and Covered Material Design Study (2/3)

Contracted Study Objectives

Part 1: Source Reduction, Reuse, & Refill

- Evaluate actions and investments needed to meet source reduction requirements, including reuse and refill
- Assess design changes needed to achieve source reduction requirements

Part 2: Design for Recyclability & Compostability

- Assess design changes needed to achieve recyclability and compostability requirements where necessary

Study #3: Source Reduction and Covered Material Design Study (3/3)

Internally-Conducted Study Objectives

- Overview of existing packaging and food service ware types and materials
- Evaluate existing reuse/refill infrastructure and market share

Study #4: Consumer Education & Access Study (1/2)

Strategy for Completion: Internal + Contract

Proposed Contract Details:

- **Budget:** \$100,000
- **Type of Contract:** Primary Request for Proposal (RFP) or Invitation for Bid (IFB)
- **Contract Solicitation Date:** Mid/Late 2024

Included Evaluations – PRC 42067(e)...

- (e)(2): (C), (F), & (J)
- (e)(3): (C)

Study #4: Consumer Education & Access Study (2/2)

Internally-Conducted Study Objectives

- Design survey and/or focus group questions to understand: (1) the current state of consumer knowledge, perceptions, and access to recycling services; (2) consumer education needs; and (3) perceptions of source reduction strategies and reuse/refill systems.
- Analyze data collected through survey and focus groups

Study #4: Consumer Education & Access Study (3/3)

Contracted Study Objectives

- Administer statewide survey to collect representative information on consumer education and access to recycling and composting

Study #5: Current and Needed State of Funding and Statutory Provisions Study (1/2)

Strategy for Completion: Internal

Included Evaluations – PRC 42067(e)...

- (e)(2): (A) & (G)

Internally-Conducted Study Objectives

- Evaluate current state programmatic resources related to recycling, reuse, and source reduction of covered material

NA Item 1: Proposed Studies (3/3)

Request for Feedback

As part of market research, CalRecycle is seeking feedback on the proposed scope of the contracted studies, including the proposed timeline, contract structure, and budget. CalRecycle is also seeking any other feedback to maximize the success of the contract solicitation and contract execution, including feedback on the proposed study goals and approaches in terms of budget, data availability, data sensitivity, and other constraints that would impact contract success.

Opportunity for Written Feedback

- Written feedback or questions may be submitted after the workshop to packaging@calrecycle.ca.gov with subject line “SB 54 Plastic Pollution Prevention and Packaging Producer Responsibility Act”.
- We have developed a process for providing written feedback (*page last page of [Discussion Document](#)*)
- We request all written feedback be submitted by **January 5, 2023**.

Topic II. Data Sources and Data Request

**Department of Resources Recycling and Recovery,
Packaging EPR Section**

Jeffory McDaniel
Environmental Scientist

Overview of Presentation – Topic II

- **Part I: CalRecycle Data Sources**
- **Part II: Data Requests**



Follow along using the Discussion Document

Part 1. CalRecycle Data Sources

CalRecycle Data Sources

- The following are key sources of data collected by CalRecycle used for needs assessment evaluations:
 - Recycling and Disposal Reporting System (RDERS)
 - Electronic Annual Report (EAR)
 - Solid Waste Information System (SWIS)
 - Materials Characterization Studies (MCS)

Recycling and Disposal Reporting System (RDRS)

- The [RDRS](#) system collects information on a quarterly basis from businesses, facilities, and operations in the state with a reporting obligation regarding the types and quantities of material that they sell, transfer, or dispose.
- Examples of reporting entities include, but are not limited to, disposal facilities, recycling facilities, composting facilities, transfer/processor facilities, contract haulers, and brokers.
- Summarized data submitted to RDRS can be viewed in [public reports](#).

Recycling and Disposal Reporting: Reports List

[0. RDRS Registered Reporting Entities](#)

[1. Overall Jurisdiction Tons For Disposal and Disposal Related Uses](#)

[2. Jurisdiction Disposal and Beneficial Reuse By Destination](#)

[3. Disposal Facility Summary For Disposal and Disposal Related Tons](#)

[4. Beneficial Reuse Tons By Material Type For Landfills](#)

[5. Jurisdiction Disposal Exported Out of State By Destination](#)

[6. Total Jurisdiction Disposal or Disposal Related Material Sent Through Transfer/Processors Vs Directly To A Landfill](#)

[7. Statewide Beneficial Reuse Totals by Material Type](#)

[8. Statewide Totals for Disposal and Disposal-Related Materials](#)

[9. Mixed Waste Organic and Source Separated Organic Content Recovery Rates](#)

[10. Quarterly Report Search](#)

Electronic Annual Report (EAR)

- Jurisdictions complete their legally required annual report on program implementation related to various statutes, such as AB 939, AB 1826, and SB 1383 by submitting required information via the EAR.
- Summarized data submitted to the EAR can be viewed in [public reports](#).

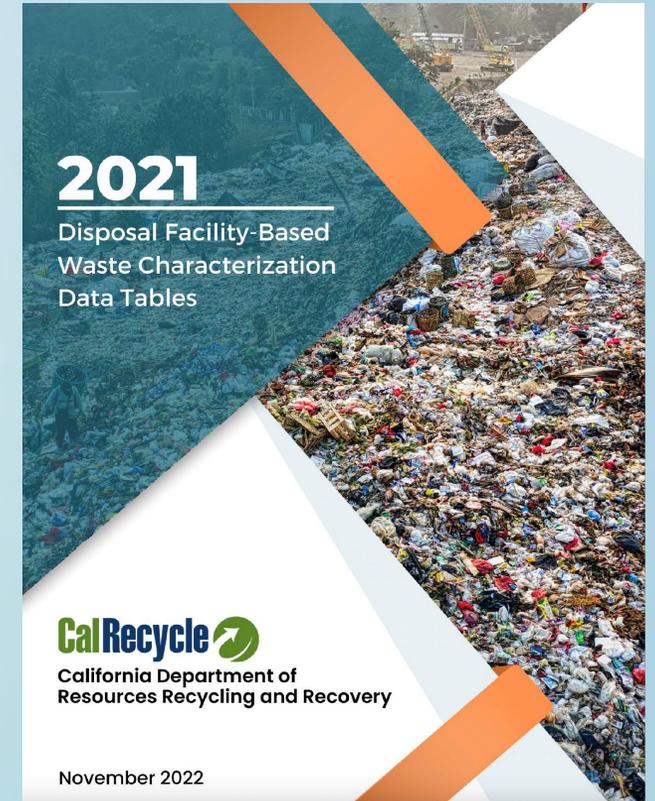
Collection container systems							
Jurisdiction	County	Designated reporting jurisdiction	Regional agency	Report year	Primary and additional haulers	Hauler don't collect residential	Residential color
Adelanto	San Bernardino			2022	Primary	No	
Agoura Hills	Los Angeles			2021	Additional hauler	No	
Agoura Hills	Los Angeles			2022	Primary	No	Gray, Blue, Green
Alameda	Alameda			2022	Primary	No	Gray, Blue, Green
Alameda-Unincorporated	Alameda			2021	Primary	No	
Alameda-Unincorporated	Alameda			2022	Primary	No	Gray, Blue, Green
Albany	Alameda			2021	Primary	No	
Albany	Alameda			2022	Primary	No	Gray, Green, Blue
Alhambra	Los Angeles			2021	Primary	No	
Alhambra	Los Angeles			2022	Primary	No	Green
Aliso Viejo	Orange			2022	Primary	No	Gray, Blue, Green
Alto Sanitary District	Marin			2021	Primary	No	

Solid Waste Information System (SWIS)

- SWIS database contains information on solid waste facilities, operations, and disposal sites throughout California.
- The types of solid waste activities found in SWIS include landfills, transfer processing activities, composting sites, in-vessel digestion sites, engineered municipal solid waste conversion facilities, transformation facilities, and closed disposal sites.
- The database contains information for each site about the location, landowner, operator, activity type, regulatory and operational status, authorized waste types, local enforcement agency, inspections and enforcement action records.

Materials Characterization Studies (MCS)

- CalRecycle conducts MCS to understand the composition of the material that is disposed, collected for recycling, and discarded by specific generators. Each study consists of sampling material and sorting it into different categories.
- As required pursuant to PRC 42061(a)(2-3), CalRecycle will conduct and publish an MCS of covered material categories that are disposed of in California landfills by July 1, 2025.
- A [listing of previous waste characterization studies](#) can be found on the CalRecycle webpage.



CalRecycle Data Sources Informational Item

Informational Item for Interested Parties:

CalRecycle intends to use the CalRecycle data sources to aid in the completion of evaluations required as part of the needs assessment.

Part 2. Data Requests

Data Requests

- CalRecycle is soliciting information on potential data sources that could be used to complete the required needs assessment evaluations pursuant to PRC 42067(e).
- Specifically, CalRecycle is seeking data to help describe and evaluate how covered materials generated in California are currently being managed, both at facilities within the state and outside of California.
- Gathering information on the current state of the materials management system will be foundational to understanding the actions and investments needed for covered material to meet the requirements of SB 54.

Request for Data Related to Recycling and Composting Covered Material (1/3)

CalRecycle is seeking relevant data regarding:

1. Existing collection systems (curbside and non-curbside) for covered material, including data on:
 - a. The amount and types of material going through different types of collection systems, especially non-curbside collection systems;
 - b. Contamination rates;
 - c. Availability of collection at multi-family residences and in rural areas;
 - d. Costs to set up and operate collection systems for recycling and composting, including a breakdown of costs where possible; and
 - e. Uses of advanced technologies, including artificial intelligence, in existing collection systems.

Request for Data Related to Recycling and Composting Covered Material (2/3)

CalRecycle is seeking relevant data regarding:

2. Existing facilities transferring or processing covered material for recycling (including organics), including data on:
 - a. The amount and types of material currently being processed, including secondary processing;
 - b. The amount of currently available capacity to process materials for recycling at existing facilities in California;
 - c. Information about the proportion of incompatible materials or contaminants removed from the processing of feedstock derived from covered material;
 - d. Processing material flows in rural areas; and
 - e. Uses of advanced technologies, including artificial intelligence, in processing of recyclables.

Request for Data Related to Recycling and Composting Covered Material (3/3)

CalRecycle is seeking relevant data regarding:

3. Existing re-manufacturing facilities or facilities using feedstock derived from covered materials to produce new packaging or products, including data on:
 - a. The amounts and types of material being recycled into new products.
 - b. Re-manufacturing facilities located outside of California, but that process material generated in California.

Request of Data Related to Source Reduction

CalRecycle is seeking relevant data regarding:

1. Existing systems or programs for reuse and refill of covered materials, including information on types of products or packaging utilizing reuse or refill systems, geographic coverage, years of operation, and challenges faced by the systems; and
2. Estimated impacts of reuse and refill systems, including rate of use, projected offset of single-use items through reuse and refill, and costs compared to single-use alternatives.

Request for Data Related to Covered Materials

CalRecycle is seeking relevant data regarding:

1. Estimates for the weight and number of plastic components of covered material and plastic covered material.

Data Requests (2/2)

Request for Feedback:

CalRecycle recognizes that there is information and data sources that exist outside of the CalRecycle data sources. CalRecycle is seeking information on data sources that could be used in needs assessment evaluations, including the name and availability of existing data sources, and any other supporting documentation about the data sources. At this time, CalRecycle is specifically seeking data outlined above to help evaluate the current system in which covered material generated in California is managed.

For more detailed information on this data request, see the Data Request document associated with this workshop.

Submitting Data in Response to Data Request

- Written feedback or questions may be submitted after the workshop to packaging@calrecycle.ca.gov with subject line “SB 54 Plastic Pollution Prevention and Packaging Producer Responsibility Act”.
- We have developed a process for providing data, similar to process for providing written feedback (see [Data Request Document](#))
- We request all written feedback be submitted by **January 5, 2023**.



[Sign-up for our SB 54 Listserv](#)



No future workshops scheduled at this time. More information forthcoming; will be distributed through our [listserv](#) and available on the [SB 54 Webpage](#).

Email: Packaging@CalRecycle.ca.gov

Ways to stay informed



CalRecycle