

SB 1383

Reducing Short-Lived Climate Pollutants in California

California Bioresources Alliance Symposium

November 19, 2021



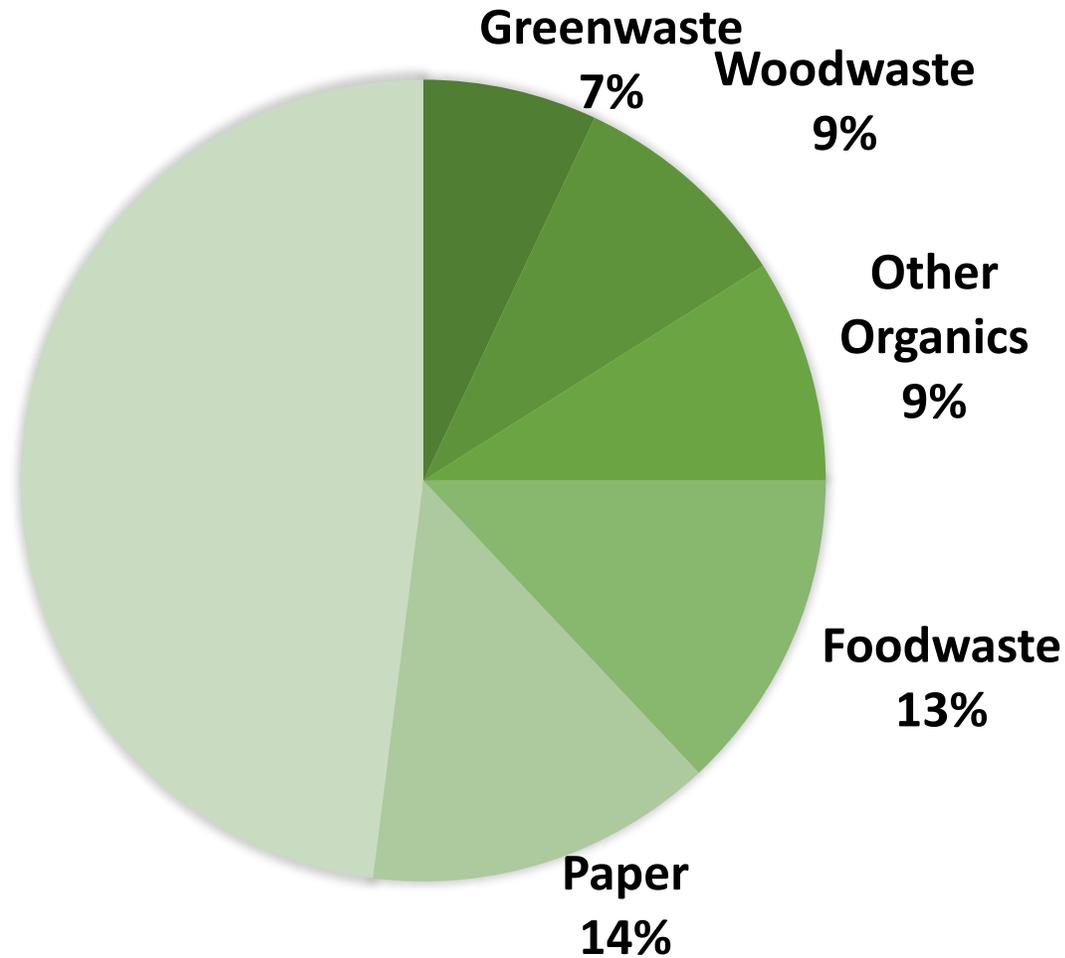
Organic Waste Is the Largest Waste Stream in California

1 IN 5 CALIFORNIANS ARE
FOOD INSECURE



Non
Organic
waste
48%

**CALIFORNIA THROWS
AWAY MORE THAN 6
MILLION TONS OF
FOOD WASTE EVERY
YEAR!**



**CALIFORNIA
DISPOSED OF
APPROXIMATELY 24
MILLION TONS OF
ORGANIC WASTE IN
2018**

CLIMATE CHANGE NEGATIVELY IMPACTS CALIFORNIA

Landfilled Organic Waste Emits
Methane Gas—
A Super Pollutant
More Powerful than CO₂

Methane Gas Contributes to
Climate Change in California



CALIFORNIA
is already experiencing
the impacts of
CLIMATE CHANGE

IN 2015 THE DROUGHT COST THE AGRICULTURE INDUSTRY IN THE CENTRAL VALLEY AN ESTIMATED \$2.7 BILLION & 20,000 JOBS

SB 1383 Requirements

2020

50% REDUCTION IN LANDFILLED ORGANIC WASTE
(11.5 Million Tons Allowed Organic Waste Disposal)

2022

REGULATIONS TAKE EFFECT

2025

75% REDUCTION IN LANDFILLED ORGANIC WASTE
(5.7 Million Tons Allowed Organic Waste Disposal)

2025

**20% RECOVERY OF CURRENTLY DISPOSED EDIBLE
FOOD FOR HUMAN CONSUMPTION**

SB 1383 Key Implementation Dates



Article 2. Landfill Disposal and Reductions in Landfill Disposal

- Section 18983.1 identifies activities that constitute landfill disposal or reductions in landfill disposal
- Reductions in landfill disposal include:
 - Recycling Centers
 - Compostable Material Handling Facilities
 - In-Vessel Digestion Facilities
 - Biomass Conversion Facilities
 - Soil amendment for erosion control, revegetation, slope stabilization, or landscaping at a landfill
 - Land application
 - Animal feed

Article 2. Landfill Disposal and Reductions in Landfill Disposal

- Section 18983.2 provides a pathway for technologies *not identified* in the regulations
- The process or technology must result in permanent life cycle emission reductions equal to or greater than composting (0.30 MTCO₂e/short ton of organic waste)
- Examples of projects that may apply:
 - Pyrolysis
 - Gasification
 - Liquefiers
 - EMSW

Application Requirements

- General Information
- Summary of project
- Mass of organic waste and end use
- Calculation of emission reduction factors
- Scientifically vetted supporting documentation

RECOVERED ORGANIC WASTE PRODUCTS

Mulch



Renewable Fuel



Renewable Heat



Compost



Renewable Elec



Renewable Biomass



PROCUREMENT OPTIONS

Direct Procurement

Jurisdictions can procure recovered organic waste products directly for use or giveaway.



Compost for City-Managed Public Landscaping

RNG for City-Owned Vehicles

POTW Renewable Gas for On-Site Electricity Needs

Procurement Does NOT Necessarily Mean Purchase!

Products could be sourced from a jurisdiction's organics recovery facility or received in another way (e.g., free delivery through a hauler contract).

Flexibility in Product Source and Use

There are no requirements that products procured must be produced within your jurisdiction or from organic waste collected within your jurisdiction.

Direct Service Provider

Jurisdictions can meet their procurement requirement by contracting with a service provider that uses recovered organic waste products like compost or renewable natural gas.



Waste Haulers

Landscape Services

Transportation Services

This Can Be a Paper Transaction

Energy products may be procured "on paper," e.g., a jurisdiction procuring from the grid without a physical connection to the eligible producer.

UTILIZING RECOVERED ORGANIC WASTE PRODUCTS

Compost & Mulch

- City Parks
- Landscaped Center Divides
- Community or School Gardens
- Erosion Control Along Roadways
- City Hosted Compost and Mulch Giveaways



Renewable Fuel

- City-owned Vehicles
- Contracted Waste Haulers
- City Bus System



Renewable Heat

- Space Heating
- Cooking
- Digesters



Renewable Elec

- Organics Recycling Facility
- Buildings or Infrastructure
- Public Wastewater Treatment Plant



Procurement of Renewable Gas

“Renewable gas” means gas derived from organic waste that has been diverted from a landfill and processed at an in-vessel digestion facility that is permitted or otherwise authorized by Title 14 to recover organic waste.



TOOLS FOR JURISDICTIONS

Procurement Calculator Tool

PROCUREMENT TARGET & PLANNING		
STEP 1: Jurisdiction Name and Reporting Year		
Jurisdiction Name (City, County, or City and County):	Reporting Year:	
City of Los Angeles	2022	
STEP 2: Annual Procurement Target		
The jurisdiction population equals the number of residents in a jurisdiction, using the most recent annual population estimate. Click here for the jurisdiction population estimates from the California Department of Finance.		
Description	Data	Unit
Jurisdiction Population:	4,040,079	Residents
Per Capita Procurement Target:	0.08	Tons of organic waste
Procurement Target:	323,206.3	Tons of organic waste

- Webpage Resources
- Case Studies
- FAQs
- More to Come!

Model Procurement Policy

MODEL RECOVERED ORGANIC WASTE PRODUCT PROCUREMENT POLICY

SECTION 1. PURPOSE

- A. It is the policy of the Jurisdiction, applicable to all departments and divisions, to incorporate environmental considerations including recycled-content and recovered organic waste product use into purchasing practices and procurement. This Recovered Organic Waste Product Procurement Policy (Policy) will help the Jurisdiction to:
1. Protect and conserve natural resources, water, and energy;
 2. Minimize the Jurisdiction's contribution to climate change, pollution, and solid waste; and,
 3. Comply with State requirements as contained in 14 CCR Division 7, Chapter 12, Article 12 ("SB 1383 procurement regulations") to procure a specified amount of Recovered Organic Waste Products to support organic disposal reduction targets and markets for products made from recycled and organic waste materials, and to purchase Recycled-Content Printing and Writing Paper and Paper Products.



HF&H Consultants

THANK YOU!

Resources:

SB 1383 Home Page:

<https://www.calrecycle.ca.gov/organics/slcp>

To stay up to date, sign up for CalRecycle's "Short-Lived Climate Pollutants (SLCP)" listserv:

<https://www2.calrecycle.ca.gov/Listservs/>

CalRecycle Contacts:

SLCP Inbox: slcp.organics@calrecycle.ca.gov



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