

Diverse Approaches Toward Zero Waste Campuses

California Higher Education Sustainability Conference
July 10, 2018

Ashlee Yee and Marshalle Graham,
Senior Environmental Scientists
Local Assistance & Market Development Branch



Overview

- CalRecycle's Zero Waste
- Goals & Policy Drivers
- Existing Requirements for Colleges & Universities
- Related Resources
- Upcoming Regulations
- Questions and Answers



Zero Waste



Zero waste is a process and a philosophy that involves a redesign of products and consumption, so that all material goods can be reused or recycled—or not needed at all.

Zero Waste Principles

- Extended producer responsibility
 - Carpet,
 - Mattresses
 - Paint
 - E-waste
- Environmentally preferable purchasing
- Edible food recovery
- Green building



Adopted by ZWA board
March 2013

CalRecycle

Direct Policy Drivers

AB 939

- 50% Diversion Requirement for Cities and Counties

AB 75

- 50% Diversion Requirement for State Agencies

SABRC Law (PCC 12153-12217)

- 50% of Reportable Purchases are Recycled Products

AB 341

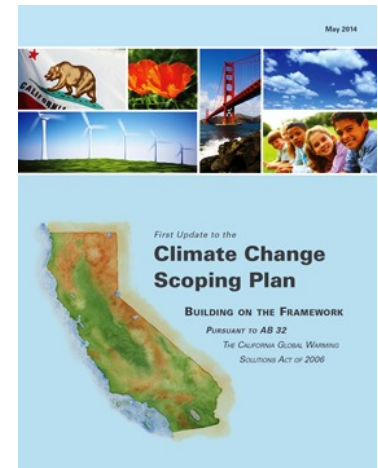
- 75% Recycling Goal
- Mandatory Commercial Recycling

AB 1826

- Mandatory Commercial Organics Recycling

SB 1383

- Short-Lived Climate Pollutant Reduction
- Organic Waste Methane Emissions Reduction



AB 32 Climate Change Scoping Plan

AB 1826 Requirements

- April 2016 - Businesses generating 8 CY/week of organics required to recycle their organic waste
- Jan 2017 – 4 CY/week of organics
- Jan 2019 – 4 CY/week of solid waste/trash service
- 2020 trigger: CalRecycle can reduce to 2 CY/week of waste if statewide organics disposal not cut in ½

Note: Multifamily complexes not required to divert food waste

The following are included in the definition of organic waste:

- Food waste
- Green waste
- Landscape and pruning waste
- Nonhazardous wood waste
- Food-soiled paper



How to Comply?

Take one or any combination of the following actions to recycle organics, provided that the action is in compliance with local ordinances and requirements:

- Source-separate organic waste from other waste and subscribe to an organic waste recycling service that specifically includes collection and recycling of organic waste.
 - Do it yourself
 - Use the city/county franchised
 - Contract refuse collection/hauling services independent of City/County
- Recycle organic waste onsite, or self-haul for organics recycling.
- Subscribe to an organic waste recycling service that includes mixed-waste processing that specifically recycles organic waste.
- Sell or donate the generated organic waste.
 - Food bank and food rescue programs



Existing State Agency Reporting Requirements



Existing Requirements

AB 75

- 50% Diversion Requirement for State Agencies

SABRC Law (PCC 12153-12217)

- 50% of Reportable Purchases are Recycled Products

New Requirements

AB 2396

- AB 341 and AB 1826 Information in Annual Report

AB 2812

- Adequate receptacles, signage, education, and staffing

CalRecycle Staff Technical Assistance

State Agency Reporting Center (SARC)

- Provide training or program information for agency (HQ and facility/satellite office) staff
 - Can include on-site training
- Assist in accessing the SARC reporting system
- Guidance in completing the report



State Agency Reporting Center v1.17.0054 Authorized Use Only

State Agency Reporting Center Sign-In

Email Address:

Next

Having trouble signing in using your WebPass? [Visit the WebPass home page](#) for help and to manage your own account.

State Agency Reporting Center <https://secure.calrecycle.ca.gov/SARC/>
Contact: SARC@calrecycle.ca.gov (916) 341-6199 
Authorized Use Only, [Privacy Policy](#)

CalRecycle Staff Technical Assistance

State Agency Buy Recycled Campaign (SABRC)

- Provide training or program information for agency staff (e.g., purchasing, tracking, reporting)
 - Can include on-site training
- Assist in accessing the SABRC reporting system
- Guidance in completing the report
- Help determine if a product falls in a category and should be reported



The screenshot shows a web browser window with the title "State Agency Buy Recycled Campaign v1.03.0025 Authorized Use Only". The main heading is "State Agency Buy Recycled Campaign (SABRC) Annual Report Sign In". Below the heading is a form with an "Email Address:" label and a text input field. To the right of the input field is a "Next" button. Below the form are two logos: "CalRecycle STAFF Sign-in" and "CalRecycle WebPass". At the bottom of the page, there is a help section: "Having trouble signing in using your WebPass? Visit the WebPass home page for help and to manage your own account. New SABRC users, please contact SABRC@CalRecycle.ca.gov for assistance. State Agency Buy Recycled Campaign <https://secure.calrecycle.ca.gov/SABRC/> Contact: SABRC@calrecycle.ca.gov (916) 341-6199 Authorized Use Only, [Privacy Policy](#)

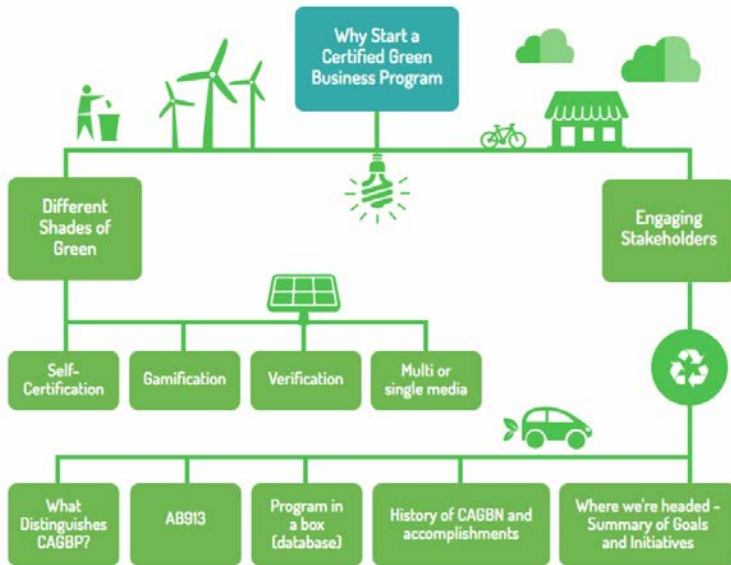
California Green Business Network



Good for California. Great for business.

There has never been a better time to go green! Below are some of the biggest reasons to become a California Green Business Partner.

Why Start A Certified Green Business Program



Some Common Green Business Practices

Green Businesses implement practices that lead to cost savings in energy, water, and garbage bills and we provide the free technical assistance to help businesses make lasting changes.



Reduce Water Use
Low flow toilets and auto-off faucets



Conserve Energy
Upgrade lighting and equipment to save energy



Commute Sustainably
Promote and incentivize alternative transportation for employees



Prevent Pollution
Eliminate and/or properly dispose of harmful chemicals



Use Non-Toxic Cleaners
Use safer, environmentally preferable cleaning chemicals



Avoid Waste
Eliminate unnecessary packaging, printing, and purchasing



Recycle Materials
Divert waste from the landfill through reuse, recycling and composting



Hire Local Vendors
Working locally means less vehicle use



About RecycleMania

RecycleMania is a friendly competition and benchmarking tool for college and university recycling programs to promote waste reduction activities to their campus communities. Over an 8-week period each spring, colleges across the United States and Canada report the amount of recycling and trash collected each week and are in turn ranked in various categories based on who recycles the most on a per capita basis, as well as which schools have the best recycling rate as a percentage of total waste and which schools generate the least amount of combined trash and recycling. With each week's updated ranking, participating schools follow their performance against other colleges and use the results to rally their campus to reduce and recycle more.

National recognition is provided to the winning school in each category on the RecycleMania website and in a national press release. Winning schools receive an award made out of recyclable materials, and win the right to host that category's special traveling trophy for the coming year.

Overall Goals for RecycleMania



Motivate students and staff to increase recycling efforts and reduce waste generation



Generate attention and support for campus recycling programs



Encourage colleges to measure and benchmark recycling activity in their effort to improve their programs over time



Have a fair and friendly competition

State Resources

- CalRecycle Staff's State Agency Assignments: <http://www.calrecycle.ca.gov/StateAgency/Reporting/Contacts.aspx>
- Mandatory Commercial Organics Recycling (MORe): <http://www.calrecycle.ca.gov/recycle/commercial/organics/>
- Mandatory Organics Recycling Frequently Asked Questions: <http://www.calrecycle.ca.gov/Recycle/Commercial/Organics/FAQ.htm>.
A comprehensive list of mandatory commercial organics recycling questions and answers developed in response to stakeholder inquiries.
- FaCIT—A list of facilities: <http://www.calrecycle.ca.gov/FacIT/Project>
- California Green Business Program: <http://www.greenbusinessca.org>
- Keep California Beautiful's Recycle Mania: <https://recyclemania.org>

SB 1383 Short-Lived Climate Pollutants (SLCP): Organic Waste Methane Emissions Reductions

What does SB 1383 Require?

- *50% reduction in the level of the statewide disposal of organic waste from the 2014 level by 2020.*
- *75% reduction in the level of the statewide disposal of organic waste from the 2014 level by 2025.*
- *20 percent improvement in edible food recovery by 2025.*

Senate Bill No. 1383

CHAPTER 395

An act to add Sections 39730.5, 39730.6, 39730.7, and 39730.8 to the Health and Safety Code, and to add Chapter 13.1 (commencing with Section 42652) to Part 3 of Division 30 of the Public Resources Code, relating to methane emissions.

[Approved by Governor September 19, 2016. Filed with Secretary of State September 19, 2016.]

LEGISLATIVE COUNSEL'S DIGEST

SB 1383, Lara. Short-lived climate pollutants: methane emissions: dairy and livestock: organic waste: landfills.

(1) The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. The state board is required to approve a statewide greenhouse gas emissions limit equivalent to the statewide greenhouse gas emissions level in 1990 to be achieved by 2020. The state board is also required to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants, as defined, in the state.

This bill would require the state board, no later than January 1, 2018, to approve and begin implementing that comprehensive strategy to reduce emissions of short-lived climate pollutants to achieve a reduction in methane by 40%, hydrofluorocarbon gases by 40%, and anthropogenic black carbon by 50% below 2013 levels by 2030, as specified. The bill also would establish specified targets for reducing organic waste in landfills.

This bill would require the state board, in consultation with the Department of Food and Agriculture, to adopt regulations to reduce methane emissions from livestock manure management operations and dairy manure management operations, as specified. The bill would require the state board to take certain actions prior to adopting those regulations. This bill would require the regulations to take effect on or after January 1, 2024, if the state board, in consultation with the department, makes certain determinations.

This bill would require the state board, the Public Utilities Commission, and the State Energy Resources Conservation and Development Commission to undertake various actions related to reducing short-lived climate pollutants in the state. The bill would require state agencies to consider and, as appropriate, adopt policies and incentives to significantly increase the sustainable production and use of renewable gas.

(2) The California Integrated Waste Management Act of 1989, which is administered by the Department of Resources Recycling and Recovery, establishes an integrated waste management program that requires each

93

Key Dates for SB 1383

- 2014 – Organic Waste Disposal Base Year
- Present -2019 – Informal and formal rulemaking process
- January 1, 2020 – 50 percent reduction in disposal of organic waste
- July 1, 2020 – CalRecycle and ARB analysis on market conditions
- January 1, 2022 Regulations and CalRecycle enforcement take effect
- January 1, 2024 – Regulations may require locals to take enforcement
- January 1, 2025
 - 75 Percent reduction in disposal of organic waste
 - 20 Percent increase in edible food recovery

How to Participate and Where to Get More Information

- Webpage: <http://www.calrecycle.ca.gov/climate/slcp/>
- Listserv: <http://www.calrecycle.ca.gov/Listservs/Subscribe.aspx?ListID=152>
- Inbox: SLCP.Organics@calrecycle.ca.gov



Questions and Answers

For More Information:

- LAMD staff contact:

<http://www.calrecycle.ca.gov/LGCentral/Reports/Contacts.aspx>

- MCR page:

<http://www.calrecycle.ca.gov/Recycle/Commercial/>

- MORE webpage:

<http://www.calrecycle.ca.gov/Recycle/Commercial/Organics/>

Questions and Answers

For More Information:

- General Waste Management for State Agencies:
<http://www.calrecycle.ca.gov/StateAgency/>
- AB 75 (SARC) Report:
<http://www.calrecycle.ca.gov/StateAgency/WMReport/>
- General SABRC Information:
<http://www.calrecycle.ca.gov/BuyRecycled/StateAgency/>
- SABRC Report:
<http://www.calrecycle.ca.gov/BuyRecycled/StateAgency/Reporting.htm>

Contact Information

Ashlee Yee
ashlee.yee@calrecycle.ca.gov
(916) 327-8824

Marshalle Graham
marshalle.graham@calrecycle.ca.gov
(916) 341-6270