Mandatory Commercial Organics Recycling Regulation For State Agencies

Local Assistance and Market Development/CalRecycle
Overview

- Goals & Policy Drivers
- Benefits
- Requirements
- Local Resources
- State Resources
- Questions and Answers
CalRecycle – Direct Policy Drivers

AB 939
• 50% diversion requirement for jurisdictions

AB 75
• State agencies integrated waste mgmt. planning and waste diversion goals

AB 341
• 75% statewide goal by 2020 (no disposal-based activities)
• Does not change AB 939 & AB 75 requirements for jurisdictions or state agencies, respectively

AB 1594
• Organic material as Alternative Daily Cover ≠ recycling
75% Initiative

Where Are We Now?

- Currently Recycled: 51%
- Currently Disposal-Related Activity: 49%

Projected 2020 Tonnages to Reach 75%

- 23 MT More Recycled by 2020
- 37 MT Recycled Amount in 2012
- 20 MT Still could be Disposed in 2020
What Will 75% Take?

- Moving > 20 million tons/year out of landfills
- 1/3 or more organic, plus many traditional recyclables
- Either overseas or other states OR more infrastructure here in California
  - CalRecycle preference to handle waste in CA
- 100s of new or expanded facilities
What Will 75% Take?

- Moving > 20 million tons/year out of landfills
- 1/3 or more organic, plus many traditional recyclables
- New or expanded facilities

Why Organics?

- >>30% of total disposal compostable/digestible
- No way to 75% without it
- Scoping Plan identifies organics as key player to help meet GHG goals
  - If divert ½ ➞ 3-4 MMTCO$_2$e reduction/year
AB 1826 State Agency Requirements

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

The law defines a business as a commercial or public entity, including but not limited to a firm, partnership, proprietorship joint stock company, corporation, or association that is organized as a for-profit or nonprofit entity, strip mall (e.g., property complex containing two or more commercial entities), industrial facility, school, school district, California State University, community colleges, University of California, special district or a federal, state, local, regional agency or facility, or a multifamily residential dwelling.
What Must Be Recycled?

- The law requires that businesses arrange for recycling services for the following types 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.
- 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
AB 1826 City/County Requirements

- Jan 2016 - Implement program
  - Outreach, education, monitoring
  - Organics recycling program
  - May include mandatory recycling via policy or ordinance, franchise agreement or contract, or requiring material to go through MRF

- Aug 2017 - begin reporting in Annual Reports on ed., outreach, monitoring
  - Including # regulated businesses and # complying; if available, tonnage diverted; facility availability and plans to address barriers
CalRecycle Resources

- FaCIT — facility directory: [http://www.calrecycle.ca.gov/FacIT/Project](http://www.calrecycle.ca.gov/FacIT/Project)
- Cool California: [http://www.coolcalifornia.org](http://www.coolcalifornia.org)
- California Green Business Program: [http://www.greenbusinessca.org](http://www.greenbusinessca.org)
Landscaping Practices

Management Memo No. 15-06, State Buildings and Grounds Maintenance and Operation (PDF, 157 KB), issued by DGS on Oct. 15, requires "a minimum 3-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas" and other drought-related orders.

- Please see CalRecycle Compost and Mulch Producers for a list of permitted compost and mulch producers, searchable by county.
Commercial Climate Calculator

1. General Business Information

Enter general business information in yellow cells (Step 1.1, required)

- Business Name
- Business Sector
- County

Select your current recycling programs (select one column) (Step 1.2, required)

- No Program
- One or More Program(s) (select both boxes if applicable)
- Separate Material Program(s) (check box and then select material(s) below)

Select: Cardboard
Select: [select material from list]
Select: [select material from list]
Select: [select material from list]

Have you entered all of the required information? (Error check for Steps 1.1 and 1.2)

- Yes, you have entered all of the required information
- Please proceed to the next question below.

Do you have any information about the amount, cost, or type of your current trash or recycling? (Step 1.3, optional)

- NO: Click here to evaluate the benefits of recycling or eliminating your trash
- YES: Click here to enter current trash information that is different than industry averages

* The estimates provided in the calculator for your trash quantity, cost, and makeup are based on the best available information for your business sector. However, these estimates reflect average trash data for businesses with varying levels of recycling and in different regions of the state. The averages may not accurately represent your business’s trash.
### 4. Future Benefits of Recycling & Reduction

Use the table below to evaluate the benefits you can achieve by reducing your current trash that is landfilled. To use this table,

1. Review the "Current" section of the table, which is based on the information about your business, trash, and recycling that you have already entered.
2. Enter a new, higher recycling rate and/or enter the percent of your trash that you would like to reduce in the yellow action cells in the "Future Actions" section. (Refer to the Glossary and Guidelines pages for more information about these two types of actions)

The "Results" section and bar charts below the table summarize the trash, cost, and footprint savings for you!

#### Evaluate Future Actions: Example

<table>
<thead>
<tr>
<th>Materials</th>
<th>Annual Trash (Tons)</th>
<th>Annual Recyclable (Tons)</th>
<th>Annual Total Material (Tons)</th>
<th>Future Recyclable Material (Tons)</th>
<th>Reduce % of Material</th>
<th>Additional Trash Reduced (Tons)</th>
<th>Additional Cost Savings* (MTCO2e)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardboard</td>
<td>75</td>
<td>94</td>
<td>13.6</td>
<td>574</td>
<td>4%</td>
<td>3.7</td>
<td>13.5</td>
</tr>
<tr>
<td>Paper</td>
<td>327</td>
<td>0</td>
<td>11.5</td>
<td>50</td>
<td>10%</td>
<td>3.1</td>
<td>10.0</td>
</tr>
<tr>
<td>Mixed Metals</td>
<td>20.6</td>
<td>0</td>
<td>2.0</td>
<td>50</td>
<td>50%</td>
<td>3.5</td>
<td>75.0</td>
</tr>
<tr>
<td>Mixed Plastics</td>
<td>0.6</td>
<td>0</td>
<td>0.6</td>
<td>50</td>
<td>0%</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Glass</td>
<td>2.3</td>
<td>0</td>
<td>1.3</td>
<td>50</td>
<td>0%</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Food Scraps</td>
<td>0.7</td>
<td>0</td>
<td>0.7</td>
<td>50</td>
<td>0%</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Yard Waste</td>
<td>0.6</td>
<td>0</td>
<td>0.6</td>
<td>50</td>
<td>0%</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Wood (pallets, etc)</td>
<td>42.5</td>
<td>0</td>
<td>4.5</td>
<td>50</td>
<td>50%</td>
<td>22.8</td>
<td>45.7</td>
</tr>
<tr>
<td>Other</td>
<td>6.3</td>
<td>0</td>
<td>6.3</td>
<td>50</td>
<td>0%</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Total</td>
<td>145.4</td>
<td>9.8</td>
<td>130.6</td>
<td>789</td>
<td>33.1</td>
<td>40.3</td>
<td>106.7</td>
</tr>
</tbody>
</table>

**Source Reduction Cost Savings:** $50

*Please note your local service provider will adjust the numbers above for your recycling and purchase of clean material.

#### What do your savings look like?

- **Total Tons of Trash**
  - Before: 141 Tons
  - After: 121 Tons
- **Total Cost**
  - Before: $21,223
  - After: $16,341
- **Total CO2e Reduced**
  - Before: 88 MT CO2e
  - After: 170 MT CO2e

*Note: Cost savings in the "Evaluate Future Actions" table include the savings you achieve by not having to pay the cost of disposal for materials that you move out of the trash. Costs in the "Total Cost" graph above reflect your estimated current and future disposal and recycling costs.

#### What are my carbon footprint savings mean?

MT CO2e stands for metric tons of carbon dioxide equivalent. This is the standard unit used to measure a carbon footprint. Tons of carbon dioxide, methane, and other greenhouse gases are all accounted for and converted to MT CO2e. These gases are emitted when you dispose and recycle.

It can be difficult to visualize what a MT CO2e really means. For this reason, your additional and total future emission reductions, including your current estimated emission reductions and any reductions from future actions, are shown below in easier-to-understand terms.

<table>
<thead>
<tr>
<th>Additional Saving</th>
<th>Total</th>
<th>Metric tons of CO2e is roughly equal to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>137</td>
<td>Annual tailpipe emissions from</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>318</td>
<td>Emission from the electricity use of</td>
</tr>
<tr>
<td></td>
<td>395</td>
<td>U.S. homes over a year</td>
</tr>
<tr>
<td></td>
<td>3,504</td>
<td>The carbon dioxide captured by</td>
</tr>
<tr>
<td></td>
<td>6,353</td>
<td>tree seedlings grown over 20 years</td>
</tr>
</tbody>
</table>
CoolCalifornia (ARB)
California Green Business Program

Look what we've achieved!
Click on the bars to find out how much we have saved:

- Average Annual Business Savings
- Annual Savings for all Businesses

01 Greenhouse Gas Emissions Saved
This year, the California Green Business Program has saved 822,677 metric tons of CO₂ with a total savings of $3,083,277. That's the equivalent of planting 43,583 acres of urban trees a year for ten years.

2800 Number of Certified Green Businesses in California today

Find Green Businesses
Looking for efficient businesses that incorporate green practices and consciously conserve resources? Select from the criteria below to find specific Green businesses near you!

Apply to Be a Green Business
Grow with us! Green business is smart business. Find out how to incorporate green practices into your own business and discover how to conserve resources and become more efficient.

Apply now to join the program!
For More Information:

Contact your Local Assistance and Market Development Liaison:
http://www.calrecycle.ca.gov/LGCentral/Reports/Contacts.aspx

CalRecycle’s web page at:
http://www.calrecycle.ca.gov/recycle/commercial/organics/