EAST BAY MUNICIPAL UTILITY DISTRICT

EBMUD
Landscape Advisory Committee
General Meeting

CA's Organics Recycling Law SB 1383

Dec 6, 2021



Kristin Bowman
EBMUD Water Conservation Representative

Kelly Schoonmaker, Stopwaste Project Manager Ron Alexander, Ron Alexander Associates President

Announcements



Events

- Qualified Water Efficient Landscaper Morning Series
 Dec. 7, 2021 for 2 weeks, Tues. Fri. 8am 10:30am
- MWELO Enforcement for Local Agencies
 Dec. 8, 2021 8:30am-12:30pm (ReScape and PG&E)
- Compost Best Management Practices
 Jan. 19 20, 2022 9am-Noon
- CalRecycle and Caltrans are hosting a webinar on compost best management practices.
 Registration (gotowebinar.com)
- Looking for a landscape professional willing to provide about a 10 min. presentation on working with compost while complying with MWELO. Please contact heather.williams@calrecycle.ca.gov

Richmond Dry Garden – Ready for visitors!

Irrigation Rebate - \$3/high efficiency nozzle

For today's meeting - CEU's eligible for Irrigation Association, QWEL, ReScape, Master Gardeners and AWWA



Richmond Dry Garden, Civic Center Plaza 27th Street and MacDonald Ave



New - Median Strip Rebate \$1.50/sf



- Commercial customers only (includes multi-family over 4 units)
- Lawn must be currently irrigated by an overhead spray irrigation system.
- Project area must be a narrow strip of irrigated lawn surrounded by hardscape (i.e. sidewalk, street, parking lot).
- California Native Plant Society Parkway Design Templates https://www.cnps.org/gardening/parkways





Precipitation



PRECIPITATION (INCHES)

		TH	HIS YEAR	AVERAGE YEAR		
STATIONS		This	Season	% of	Season	Season
	Today	Month	to-Date	Avg.	to-Date	Total
LOCAL AREA						
USL WTP	0.00	0.00	9.23	158%	5.84	25.33
Orinda WTP	0.00	0.00	12.91	191%	6.77	32.06
Lafayette Reservoir	0.00	0.00	8.24	140%	5.88	28.18
Walnut Creek WTP	0.00	0.00	9.12	192%	4.76	23.02
MOKELUMNE AREA						
Camp Pardee	0.00	0.00	8.95	193%	4.64	21.56
*Salt Springs PH	0.00	0.03	12.65	125%	10.12	45.51
*Tiger Creek PH	0.00	0.00	12.86	130%	9.92	46.08
*Calaveras Big Trees	0.00	0.00	15.54	136%	11.39	54.71
*Caples Lake	0.00	0.00	13.97	127%	11.00	46.75
Snow On Ground			0	0%	17	
Water Content			0.0	0%	4.1	
*4-Station Average	0.00	0.01	13.82	130%	10.62	48.28

Water Supply (Nov 23rd Board Meeting)



Early precipitation improved water supply

- Pardee and Camanche reservoirs are 78% of average and 54% of capacity
- East Bay reservoirs are 96% of average and 72% of capacity

Freeport Diversion

- Since October 4, 10,900 AF of Freeport water diverted through 11/14
- Diversions will continue until February 2022

Water Production

- October 2021 was 15% lower than October 2020
- Fiscal year-to-date reduction compared to 2020 is 11%.

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Water Production 2021 vs 2020 Comparison



	Gross Water Production (mgd)											
	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Actual	126	126	136	165	182	192	193	193	187	158	125	-
WOH 2021	99	99	103	115	123	127	125	126	124	113	98	-
EOH 2021	27	27	33	50	59	65	68	67	63	45	27	-
Last Yr	123	141	143	148	175	201	210	211	200	185	153	-
WHO 2020	98	108	109	109	121	134	137	137	133	125	111	-
EOH 2020	25	33	34	39	54	67	73	74	67	60	42	-
% Change	2%	-11%	-5%	11%	4%	-4%	-8%	-9%	-6%	-15%	7 -18% /	-









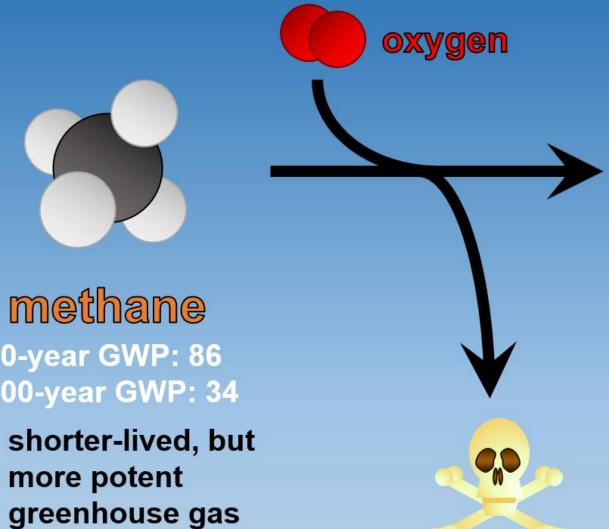
SB 1383 Regulations: Effects on the Landscape Industry

Kelly Schoonmaker, RLA, LEED AP
Program Manager, StopWaste
December 6, 2021

What is SB 1383?

- Short-Lived Climate Pollutant Strategy
- Requires a plan to reduce statewide methane emissions by 40% by 2030
- Specifically directs CalRecycle to:
 - Divert 75% organics from landfill by 2025 statewide
 - Recover 20% edible food for human consumption statewide
 - Cities/counties are primary entities responsible
- Regulations take effect on January 1, 2022
 - Signed into law in 2016
 - Final regulations adopted November 2020

Why regulate methane?



volatile

organics



longer-lived, but less potent greenhouse gas

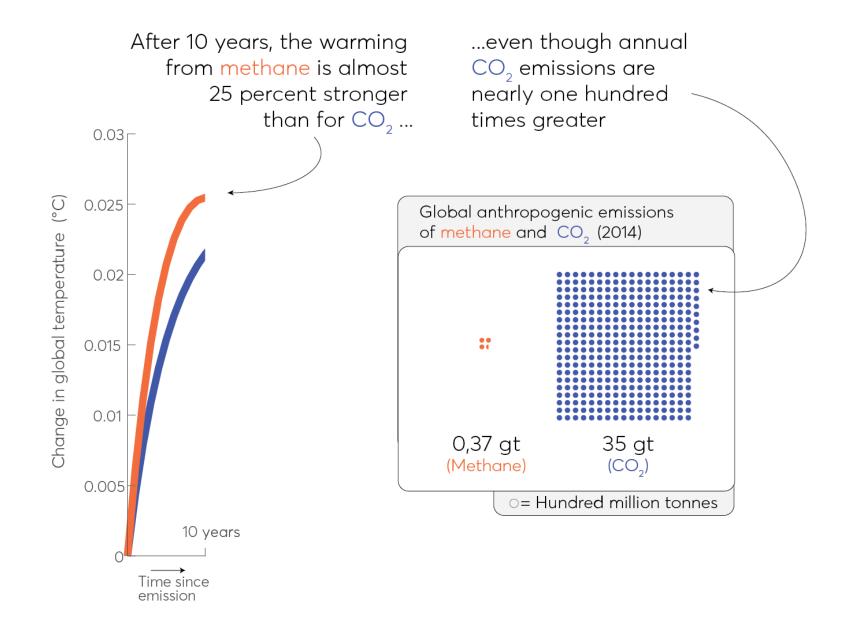
greenhouse gas reactions in atmosphere can produce toxic chemicals

more potent

methane

20-year GWP: 86

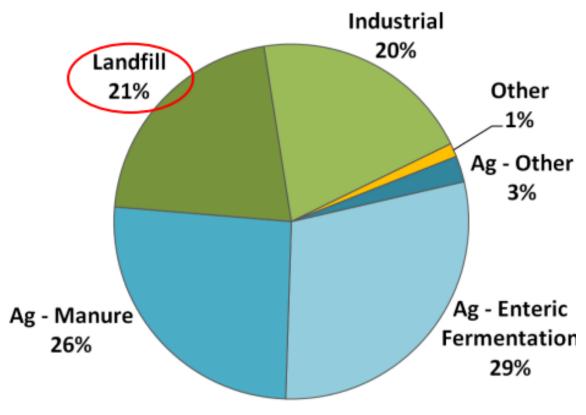
100-year GWP: 34

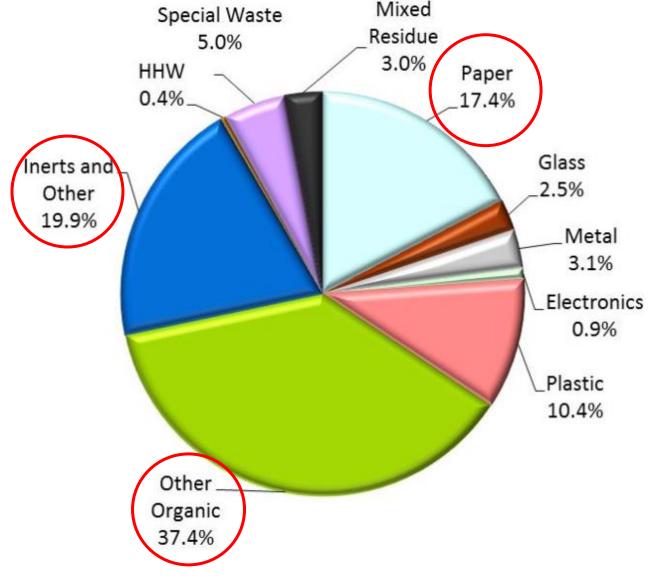


Why is it important to get organics out of landfill?

• Landfills significant source of methane

Methane comes from anaerobic decomposition of organics





Material Classes in California's Overall Waste Stream (2014)
31M tons

2015 Total Methane Emissions 39.6M mtons CO2e

What is included in "organics"?











SB 1383 regulations address almost all aspects of the organics cycle







- Education
- Reporting
- Enforcement*







Requires enforcement of some measures of other state regulations

• CalGreen (Title 24, Part 11):

- 4.410.2 and 5.410.1: Recycling by Occupants
- 4.408.1 and 5.408.1: Construction Waste Management
- Affects residential and non-residential construction

WELO

- 492.6(a)(3)(B): Follow soil report recommendations
- 492.6(a)(3)(C): Incorporate compost at 4 CY / 1,000 sf
- 492.6(a)(3)(D): Apply 3 inches mulch
- 492.6(a)(3)(G): Use organic recycled mulch if locally available

SB 1383 - WELO requirements

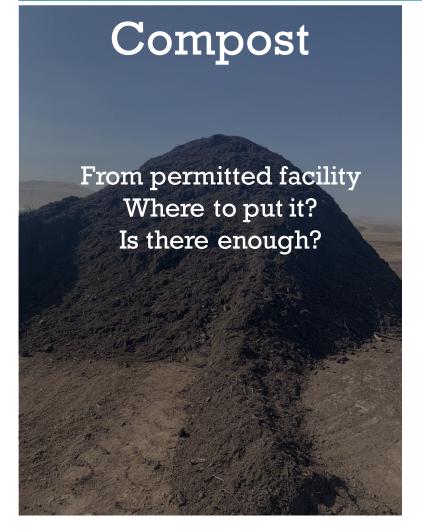
- No new requirements in the ordinance itself
- Must adopt ordinance or other enforceable mechanism (e.g., permits)
- Must report annually to CalRecycle.
- CalRecycle can issue financial penalties on jurisdictions for non-compliance.
 - \$500 \$10,000 per day at local assistance staff discretion



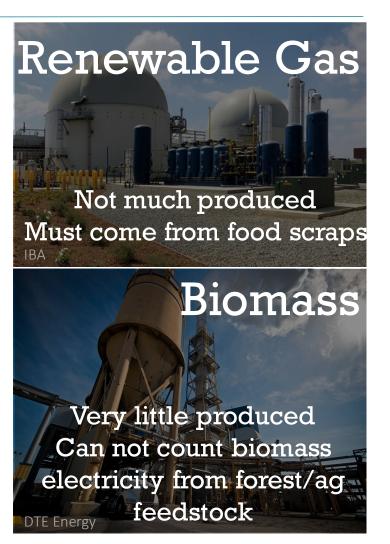
Procurement Requirements

- Cities and counties must procure a minimum amount of recovered organic waste products every year.
- Target based on:
 - Population size
 - 0.08 tons organic waste *disposed* per person (statewide average)
- Procure = obtain for use or to give away
- Can meet this directly or via a "direct service provider"
- Annual tracking and reporting requirements
- Fines for non-compliance (\$500 \$10,000/day)

What are the "Recovered Organic Waste Products"?

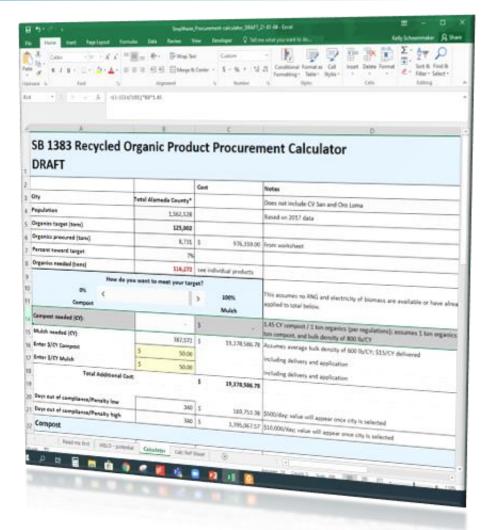






How much would a city of 100,000 need to procure?

- 8,000 tons recovered organic waste products
- Compost:
 - 4,640 tons (0.58 tons compost/ton organics)
 - 11,600 CY (1.45 CY compost/ton organics)
 - About 254 sports fields (1/2"/year)
- Mulch
 - 8,000 tons (1 ton mulch/1 ton organics)
 - ~26,700 CY (1 CY mulch/ 0.3 ton mulch)*
 - 133 acres of new landscape construction



CY: cubic yard

How to meet the recovered organic materials procurement requirements?

- Procurement of compost or mulch by jurisdiction
 - Landscape maintenance
 - Compost giveaways
 - New construction including WELO projects done by city or Direct Service Provider
- Procurement by **Direct Service Providers**
 - Any entity using compost/mulch with a written agreement to use compost or mulch on behalf of the city (e.g., school districts, farms, water agencies)
 - Receipts or invoice to track for record-keeping requirements
- Can be sourced from and applied anywhere in the state
 - Carbon farming

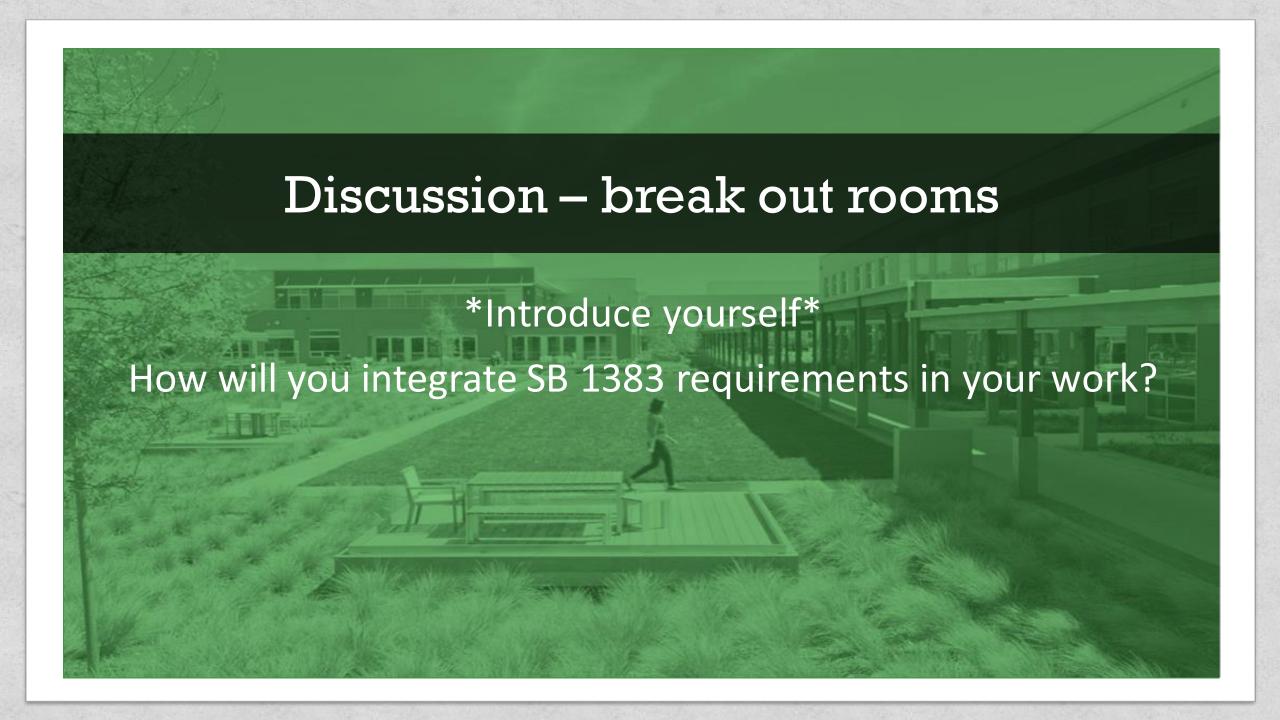


What else can you expect at home and at work?

- Increased monitoring of green waste loads for contamination (contractors)
- Inspections of curbside garbage, recycling, organics
- Increases in rates
 - Best way to save money and avoid hassles is proper sorting







How will SB 1383 affect me?

Contractors

- Increased documentation required for city projects
- Increased focus on soil req's in WELO
- Landscape Architects and Designers
 - Need to incorporate documentation and submittal requirements into specs for city projects (WELO)

Everyone

- Increased demand for compost and mulch
- Potential declines in quality
- Opportunity to meet climate goals, etc.
- More info: https://www.stopwaste.org/resource/sb-1383-annual-procurement-requirements-january-2021





Questions and ideas on how to reduce organic waste

- How will this affect mulch and compost costs and availability to the public? Will this hurt existing mulch providers?
- How to engage residents in multifamily buildings
- Free compostable bags and countertop bins likely will be necessary to get the public to participate
- Leave the leaves, landscape maintenance trainings
 - https://www.rescapeca.org/
- Establish community compost areas with local governance and oversight by RecycleSmart?
- Provide free arbor mulch to residents in each Bay Area city to pick up at a convenient location like the recycling centers.
 - https://lawntogarden.org/marketplace
- Composted wood mulch for bioretention areas!



