



AIR ISSUES & REGULATIONS COMMITTEE

A Committee of the Bay Area Clean Water Agencies

BACWA Annual
Members Meeting
January 27, 2017

AIR Issues / CASA Climate Change

Local

- *Newly Effective* Rule 2-2 New Source Review
- *Newly Amended* Rule 2-5 New Source Review of Toxics
- *Proposed* Rule 11-18 Reduction of Risk from Air Toxic Emissions at Existing Facilities

Global

- Governor's 2030 Goals
- "2030 Target" Scoping Plan Update
- Short-Lived Climate Pollutant Reduction Strategy and SB 1383
- BAAQMD Draft 2017 Clean Air Plan
- Adaptation



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Newly Effective Rule 2-2

New Source Review

- No new amendments since December 2012
- Effective August 31, 2016
- Now considers:
 - Particulate Matter (PM 2.5)
 - Revised emission calculation methodologies
 - Fugitive emissions



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Newly Amended Rule 2-5

New Source Review of Toxics

- Incorporates:
 - OEHHA's 2015 Health Risk Assessment Guidelines
 - CARB/CAPCOA's Risk Management Guidelines
- Revises emission calculation procedures for modified sources (installed before 1987)
- Risk trigger levels remain unchanged:
 - Source cancer risk <1/million for TBACT
 - Project cancer risk <10/million
- Exemption for IC Engines <50 hp

Issue:

- Facility cancer risk may increase even though emissions remain the same



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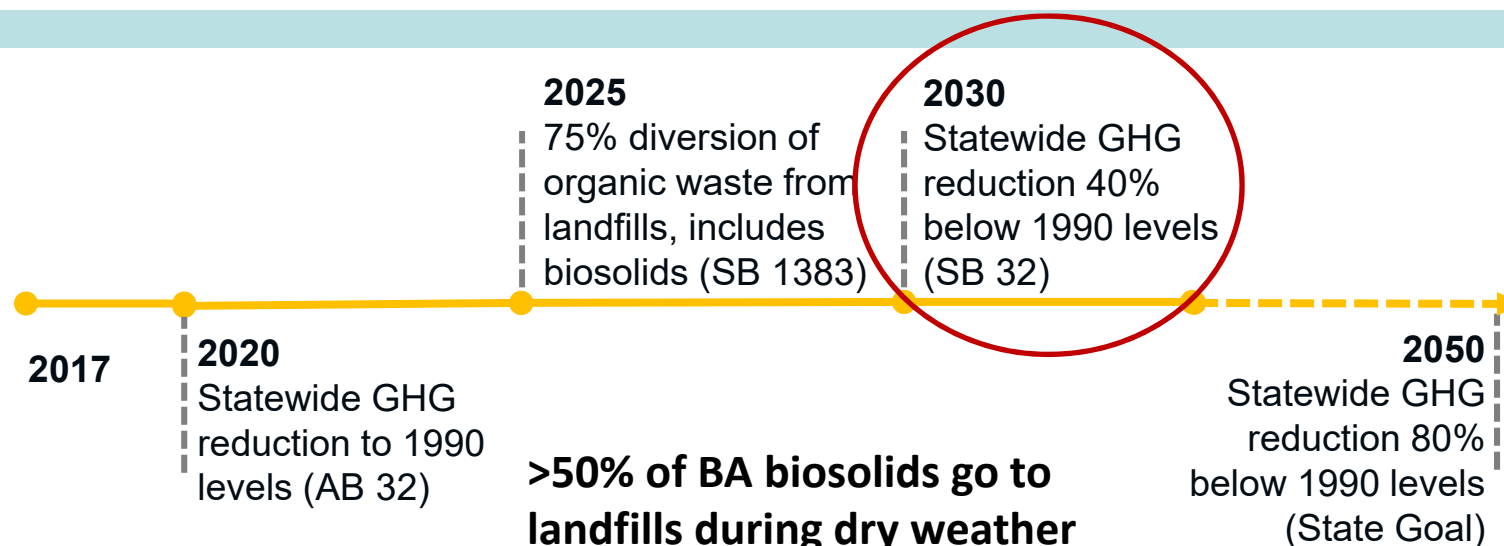
Draft Rule 11-18: Reduction of Risk from Air Toxic Emissions at *Existing Facilities*

- Purpose: Protect the public from toxic air contaminants
- Requires:
 - BAAQMD conducts Health Risk Assessment (30-day review)
 - Risk Reduction Plan (180 days to conduct)
 - Risk Reduction Measures (3 years to implement)
 - Phased Implementation based on cancer prioritization number
- Issues:
 - Public notification of revised cancer risk w/ same emissions levels
 - Undefined Toxic Best Available Retrofit Control Technology
 - Short timeline and potential significant cost to comply



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California climate policy is driving change!



>50% of BA biosolids go to landfills during dry weather

Up to 90% of BA biosolids go to landfills during wet weather

GHG policies are driving the need to examine alternative biosolids management options now!



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CALIFORNIA CLIMATE STRATEGY

An Integrated Plan for Addressing Climate Change



VISION

**Reducing Greenhouse Gas Emissions
to 40% Below 1990 Levels by 2030**

GOALS



**50%
renewable
electricity**

**50%
reduction
in petroleum
use in vehicles**



**Double energy
efficiency savings
at existing buildings**



**Carbon
sequestration
in the land base**



**Reduce
short-lived
climate pollutants**



“2030 Target” Scoping Plan Update requires additional programs & policies

- Scenario evaluation
 - Base: Continue Cap-and-Trade & Direct Regulations
 - Alternative 1: No Cap-and-Trade & Focus on Direct Regulations
 - Alternative 2: Carbon Tax & Direct Regulations
- Additional policies needed
 - Transportation, electricity, and industrial sectors are the largest emitters
 - Short-lived climate pollutant reduction strategies (methane reduction)
 - Carbon sequestration on Natural and Working Lands (Healthy Soils Initiative and Forest Carbon Plan)
- Local Climate Action Plans (to achieve 2050 target)



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SLCP reduction strategies become effective in 2022 under SB 1383

- 40% methane reduction by 2030 (relative to 2013 levels)
- Organics diversion from landfills (including biosolids)
 - 50% by 2020 (relative to 2014 levels)
 - 75% by 2025 (relative to 2014 levels)
- CEC and CPUC to adopt policies and incentives to increase renewable gas (biogas) production and use
- Rule development by end of 2018



POTWs considered part of the solution in reducing methane emissions!

- Co-digestion in existing anaerobic digesters – additional biogas generated assumed to be used as transportation fuel
- Actions to evaluate opportunities to divert organic waste from landfills and create useful byproducts
 - Developing regional opportunities
 - Directing financial incentives to POTWs that capture and use methane
 - Collaboration of state agencies to overcome regulatory (GHGs vs Toxics) and financial barriers (capital costs)



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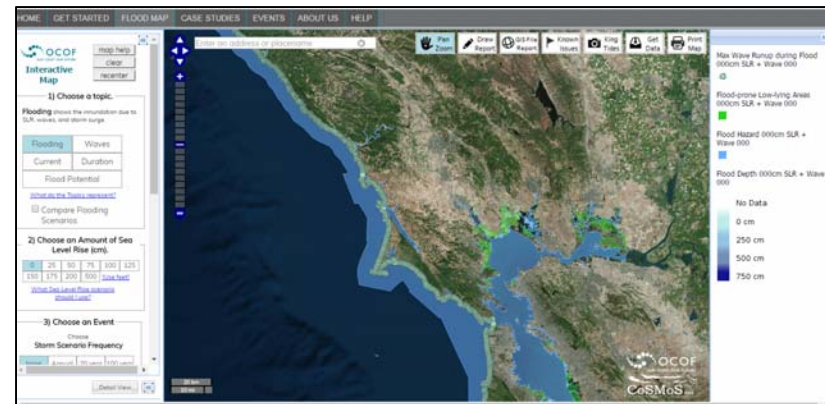
BAAQMD Draft 2017 Clean Air Plan

- Target: 80% reduction in Bay Area GHG levels by 2050
- Key Priorities:
 - Reduce Criteria Air Pollutants and Toxic Air Contaminants
 - Reduce Emission of Super-GHGs
 - Reduce Demand for Fossil Fuels
 - Decarbonize the Energy System
- Control Strategies
 - Stationary Sources: Rule 11-18, Biogas Flares
 - Natural & Working Lands: Carbon Sequestration
 - Waste & Super-GHGs: Organics Diversion
 - Water: Water Conservation, Reduce GHGs while promoting biogas recovery
 - Further Studies: Lower ICE NO_x, Investigate POTWs



State agencies are updating adaptation measures and strategies in 2017

- Ocean Protection Council to update:
 - Sea Level Rise Guidance Document
 - Online sea level rise database
- Natural Resources Agency to update CA's adaptation strategy "Safeguarding California"



Our Coast Our Future



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Thank you!

Upcoming Meetings:

BACWA AIR Committee
March 15th, 10 am – 1 pm
(FSSD to host, includes tour of the Lystek OMRC)

Joint CASA Climate Change Program & Energy Workgroup
February 16th, 12:30 – 3:00 pm

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