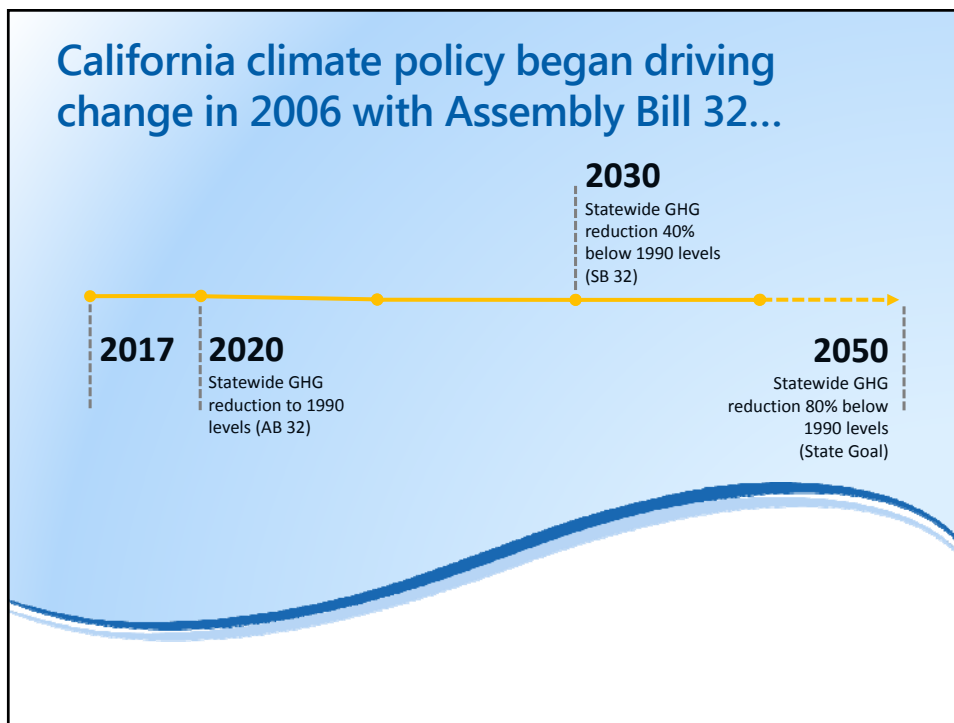


June 21, 2017 – BACWA AIR COMMITTEE/BAAQMD ANNUAL MEETING


# Senate Bill 1383: Statewide Short-Lived Climate Pollutant Reduction Strategy Implementation

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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

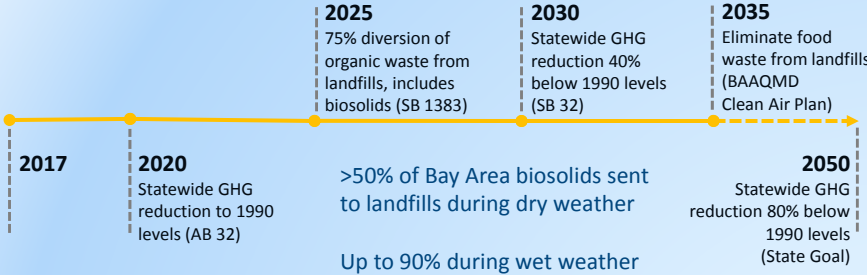




Reduce short-lived climate pollutants

Resources: ppt/03

## The latest legislation is driving change in biosolids management at POTWs!



<p><b>2017</b></p>	<p><b>2020</b> Statewide GHG reduction to 1990 levels (AB 32)</p>	<p><b>2025</b> 75% diversion of organic waste from landfills, includes biosolids (SB 1383)</p>	<p><b>2030</b> Statewide GHG reduction 40% below 1990 levels (SB 32)</p>	<p><b>2035</b> Eliminate food waste from landfills (BAAQMD Clean Air Plan)</p>	<p><b>2050</b> Statewide GHG reduction 80% below 1990 levels (State Goal)</p>
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>50% of Bay Area biosolids sent to landfills during dry weather

Up to 90% during wet weather

GHG (methane) reducing policies are driving the need to investigate alternative biosolids management options now!

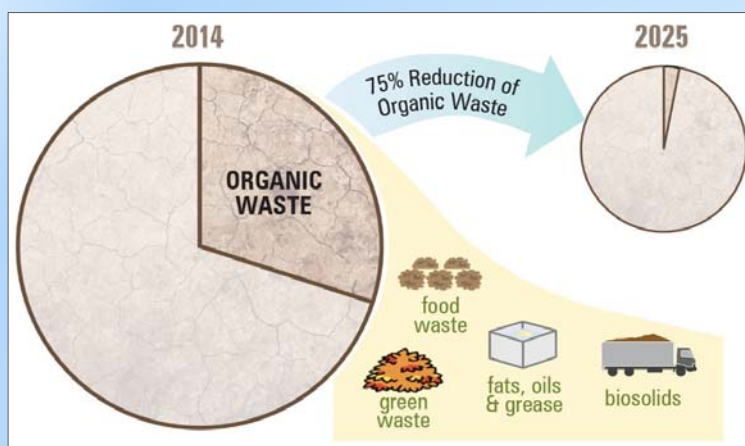
## Rulemaking under SB 1383 to implement methane reducing strategies

- 40% methane reduction by 2030 (relative to 2013 levels)
- Organic waste diversion from landfills (includes *biosolids, digestate, and sludges*)
  - 50% by 2020 (relative to 2014 levels)
  - 75% by 2025 (relative to 2014 levels)
- Incentivize increase in biogas production and use
- **Final Regulation by end of 2018** – Effective in 2022



Revised 6/17/15

## POTWs are considered part of the solution for methane reduction by diverting food waste



*BAAQMD has expressed concern about the potential increase in odors*

Revised 6/17/15

## Co-digesting additional organic feedstock (food waste) increases biogas production



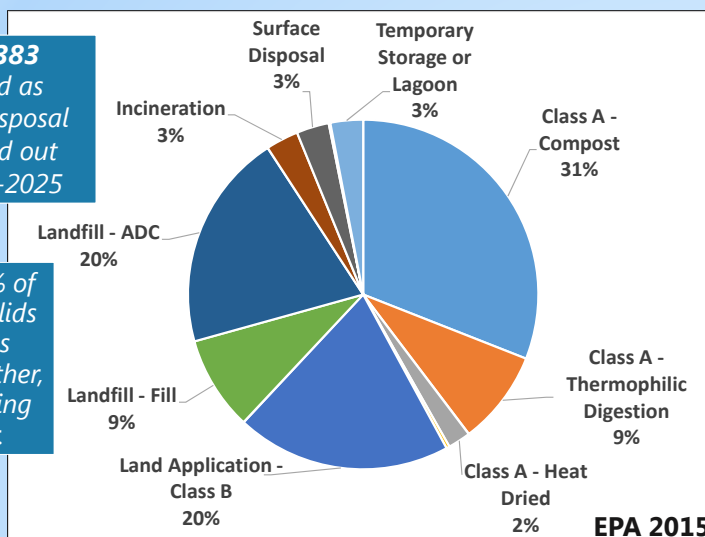
While increased production of biogas is encouraged by the state and BAAQMD, BAAQMD has expressed concern about the potential increase as a source of hydrogen sulfide

6/21/2017

## The challenge facing POTWs statewide...

**Under SB 1383**  
Biosolids used as landfill ADC/disposal may be phased out between 2020-2025

More than 50% of Bay Area biosolids go to landfills during dry weather, up to 90% during wet weather.



6/21/2018

## Biosolids can be land applied to provide multiple benefits

- Offsets inorganic fertilizer production/use
- Increases soil carbon content and stability
- Increases water retention capacity
- Increases nutrient use efficiency
- Increase crop yield
- Sequesters carbon in the soil below



Biosolids ppt/19

## Land application of biosolids in California is limited in regions

### County Ordinance Requirements and Biosolids Bans

- Ban on All Land Application
- Ban on Class B
- Conditional Use Permit Required
- Class B Land Application Allowed
- No Regulations/Ordinances Enacted

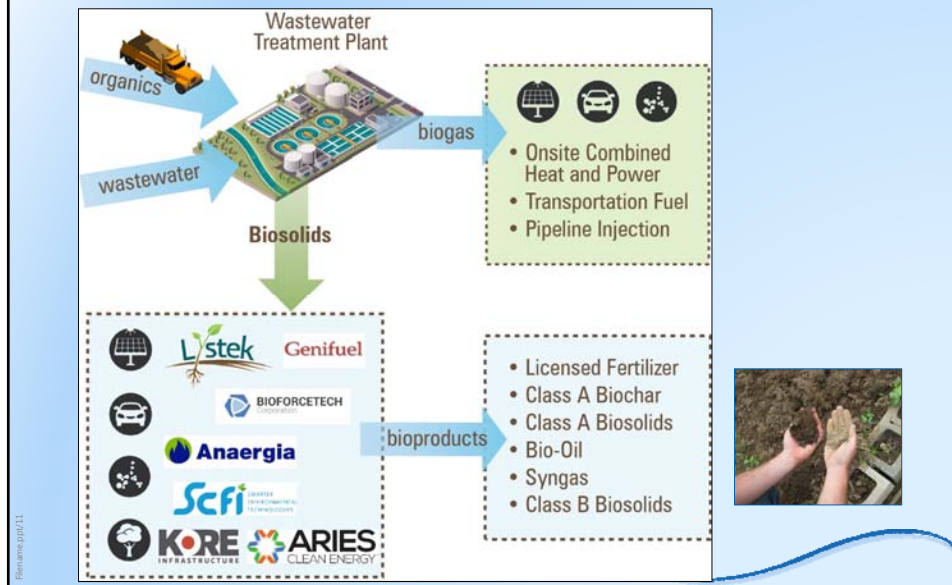
This map is based on a search of online available Codes and may have missed County other requirements such as non-codified requirements or requirements of city or regional agencies. This map presents findings for individual county requirements and deals only with the unincorporated areas of the counties, all area in California are subject to California and Federal biosolids regulations.

Prepared by California Association of Sanitation Agencies, 2017.



Biosolids ppt/19

## Bay Area Biosolids Coalition and individual agencies are investigating other options



## What's next for SB 1383 and addressing diversion of organics/biosolids?

- Participate in SB 1383 public workshops hosted by CalRecycle
  - June 21<sup>st</sup> – Cal/EPA Building in Sacramento
  - June 26<sup>th</sup> – Lakewood City Council Chambers
- CA Association of Sanitation Agencies to coordinate "Wastewater Summit" with State Agencies to share POTW experience and perspectives
- Brief BAAQMD on issue – June 21<sup>st</sup>

Thank you!

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QUESTIONS?