

# **Hot Topics: Biosolids**

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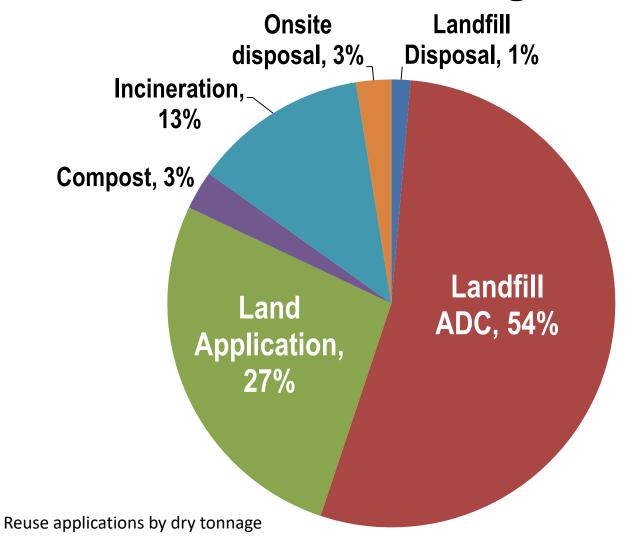
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# **BACWA Annual Meeting**

January 19, 2018

### **Background**

## **Biosolids Uses for BACWA Agencies**



Source: BACWA 2016 Biosolids Trends Survey

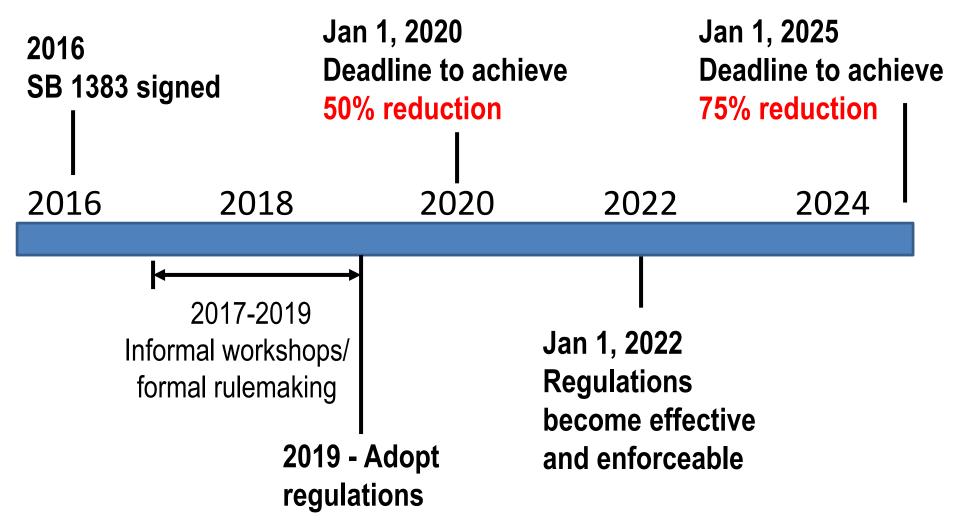
# Senate Bill 1383

- Short-lived climate pollutant (SLCP) regulations targeting methane reduction
- Diverting "organics" from landfills
  - Opportunity: codigestion
  - Hurdle: biosolids recycling





### **Timeline**





### **SLCP Reduction DRAFT Regulations**

Proposed Regulations (October 24, 2017)

#### **Article 1 Definitions**

"Organic Waste" means solid wastes containing material originated from living organisms and... biosolids, digestate and sludges.

#### Article 2 Landfill Disposal And Reductions in Landfill disposal

The following dispositions of organic waste shall be deemed to constitute landfill disposal:

- (1) Final deposition at a landfill.
- (2) Beneficial reuse at a landfill, including but not limited to Alternative Daily Cover and Alternative Intermediate Cover.
- (3) Any other disposition not listed in subsection (b) of this section.



#### **Biosolids Diversion Uncertainties**

- No explicit ban
  - Solid waste jurisdictions will develop plans for meeting 2025 diversion requirements
  - Jurisdictions will likely be the ones to determine whether biosolids is in the 75% that needs to be diverted or 25% that can remain
- Uncertain timeline
  - SB1383 requires 75% diversion by 2025
    - Enforcement begins in 2022
  - Potential for jurisdictions to choose to enforce sooner
- Consideration for emergency use of landfills during upsets
  - Future draft regulations will include emergency use for landfill disposal

# **Wastewater Industry Requests**



- Protect and enhance opportunities for biosolids recycling via land application
- Allow time in biosolids diversion requirements for facility development and emergence of new technologies
- Create markets for recycled organic products
- Provide grant funding to develop and implement new technologies and projects
- Provide market certainty for renewable attributes
- Provide leadership in addressing contamination
- Facilitate partnerships between solid waste and wastewater agencies

# Protect and enhance opportunities for biosolids recycling via land application

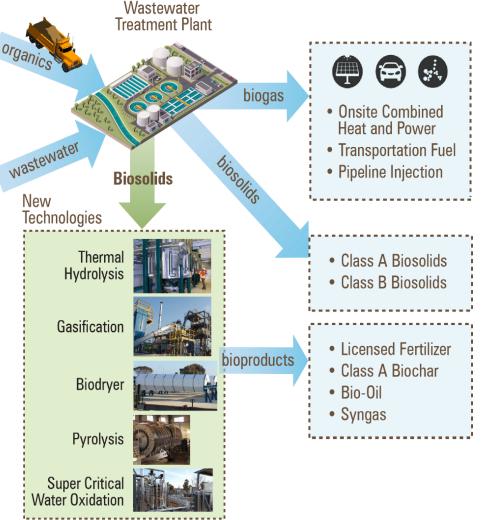
Land applied biosolids provide multiple benefits and support every goal in the Healthy Soils Initiative Action Plan

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



Allow time in diversion requirements for facility development and emerging

technologies



## Create markets for recycled organic products

Biogas: fuel, electricity



**Biosolids: soil** 

amendment, compost, fertilizer, etc.



# Provide grant funding to develop and implement new technologies and projects





#### Related to food waste diversion

Provide leadership in addressing contamination

 Facilitate partnerships between solid waste and wastewater agencies





# **Biosolids Outlook**

- Major changes to status quo for biosolids
- Opportunity
  - Improved long-term certainty for land application
  - Paradigm shift
- Regulations are being written now
  - Next Stakeholder Workshop:
     March 21, 2018 (Sacramento)
  - CASA Panel with Hank Brady and Jackie Zipkin





