CalRecycle Anaerobic Digestion Initiative and Composting Regulations Review

Zone Works: Let's Get Technical Capitol Plaza Holiday Inn, Sacramento December 1, 2011

> Ken Decio CalRecycle

Anaerobic Digestion (AD)

AD is a promising technology for managing organic material

What are the environmental impacts?

AD Initiative and Program EIR

Identify activities to be carries out by CalRecycle that support the development of AD in California

Assist in meeting CalRecycle Strategic Directive 6.1:

- Reduce the amount of organics in the waste stream by 50% by 2020

Provide program level impact analysis of AD facilities as a starting point for local jurisdictions in preparing CEQA compliance

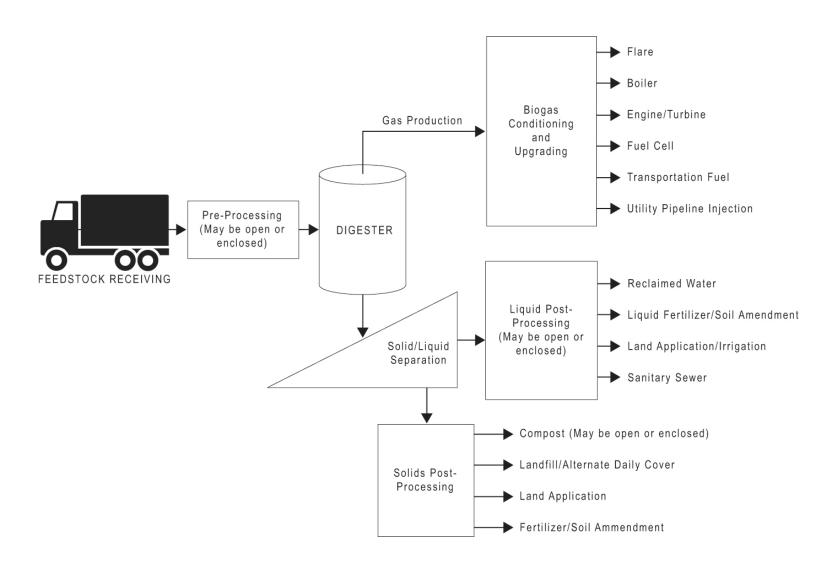
CalRecycle AD Initiative

Foster development of AD facilities in CA

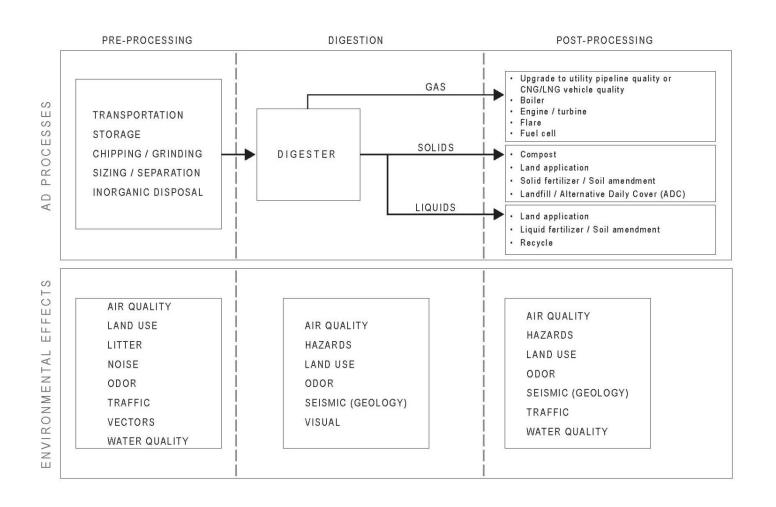
It is the policy of CalRecycle to encourage the development of AD facilities as an alternative to the landfill disposal of organic solid waste.

CalRecycle shall, not later than January 1, 2012, establish programs for implementation

AD Process Flow



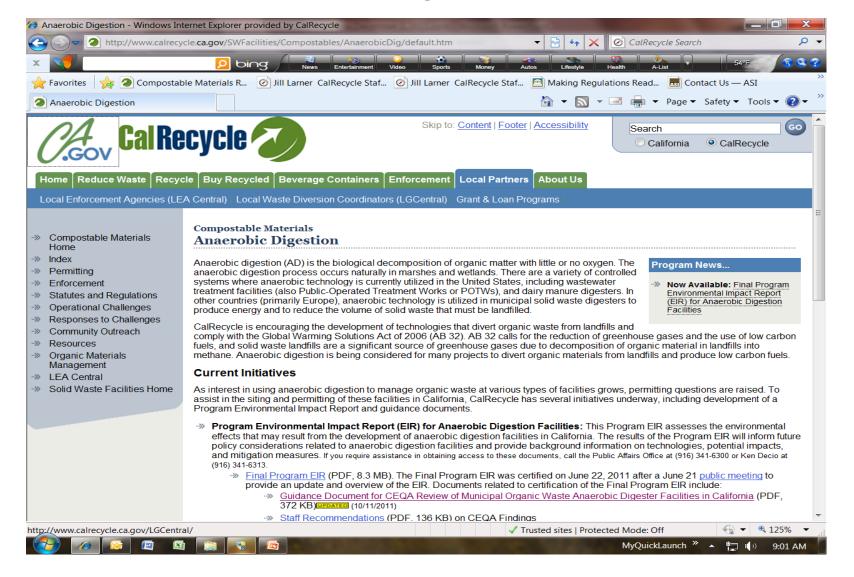
AD Environmental Effects



AD Program EIR - Summary

All potential environmental impacts at a program level could be mitigated to a less-than-significant level with implementation of mitigation measures

AD Program EIR & AD Initiative Available on CalRecycle Website



How Does Anaerobic Digestion Fit into Statutes and the CalRecycle Regulatory Structure?



Statutes AD Is Regulated Like Composting

PRC 40116. "Compost" means the product resulting from the controlled biological decomposition of organic wastes that are source separated from the municipal solid waste stream, or which are separated at a centralized facility.

How Conversion Technologies Fit Current Board Regulatory Structure

www.calrecycle.ca.gov/Publications

CalRecycle Regulations (Title 14, CCR)

If feedstock is compostable material, the facility is regulated as a compostable material handling facility.

If feedstock is not compostable material, the activity is regulated as a transfer and processing facility.

Tier Placement – Focus on Facilities

Type of Feedstock

Quantity

Location

Compostable Materials Handling Tiers

Excluded

EA Notification

Full Permit

Transfer/Processing Operations & Facilities Tiers

Excluded

EA Notification

Registration

Full Permit

How Anaerobic Digestion Fits Current Board Regulatory Structure

www.calrecycle.ca.gov/Publications

Strategic Directive 8.3 Regulatory Review

Review & analysis of regulations in light of current science, market issues, and applicable technologies.

- Alternative Daily Cover
- Food Waste Composting
- Compostable Material Storage Volume Limitations
- Agriculture Land Application of Compostable Material
- Three-Part Test/Green Material Contamination

Composting Regulations Review Issues

Subcategories for food waste

Land application: disposal or beneficial use

On-site storage and 12,500 cubic yard limit

Odor complaints: beyond zero tolerance

Regulatory coordination of POTWs accepting food waste & FOG

Green waste contamination

Anaerobic Digestion facility permitting

Composting Regulations Review Issues

Regulatory coordination of meat, fish, and poultry waste

Maximum metal concentrations consistency with federal regulations

Clarify "processing" in agricultural material definition

Small-scale composting exclusions

Clarify "permitted maximum tonnage"

Vermiculture

EA Notification inspection frequency language

Stakeholder Input

October 18, 2011 - Informal Workshop at CalEPA

November 16, 2011 - Informal Workshop at Inland Empire Utilities Agency in Chino

December 13, 2011 – Informal Workshop at CalRecycle Public Monthly Meeting

December 21, 2011 – Informal Workshop at CalEPA in Conference Room 550 from 9:00 AM - 12:00 PM

Information on the Rulemaking Process

Compostable Materials, Transfer/Processing Rulemaking

http://www.calrecycle.ca.gov/Laws/Rulemaking/Compost/default.htm

CalRecycle: Compostable Materials, Transfer/Processing Rulemaking Listserv

http://www.calrecycle.ca.gov/Listservs/

Send Written Comments to:

compost.transfer.regs@calrecycle.ca.gov

Questions?

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