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Why Anaerobic Digestion? Why Now?

Board adopted Strategic Directives

- to increase the diversion of waste from landfills, (SD-2)
- to encourage use the technology to effectively manage and reuse waste consistent with the waste management hierarchy and AB 32, (SD-3)
- and to encourage the development of alternative fuels. (SD-9)

State Legislation

AB 32 will require

- reduction of greenhouse gases and
- the use of low carbon fuels.

- **Solid waste landfills are a significant source of greenhouse gases due to decomposition of organic materials.**

Why Anaerobic Digestion? Why Now?

Why is Anaerobic Digestion a Solution?

- Generates a methane-rich gas that can be used as fuel for generating electricity, heat, or vehicles.
- The methane-rich gas is a low carbon fuel that is environmentally superior to petroleum-based fuel.
- This fuel source is sustainable, reducing the dependence on crude oil.

Why Anaerobic Digestion? Why Now?

Draft Guidance, **'How Anaerobic Digestion Fits Current Board Regulatory Structure'**

<http://www.ciwmb.ca.gov/Organics/EventsInfo/ADCFoodWaste/Anaerobic.pdf>

- Principal Contact: Watson Gin, CIWMB

Why Anaerobic Digestion? Why Now?

Programmatic EIR

- Contract provides for the preparation and circulation of a Program Environmental Impact Report to assess the environmental impact of siting new and expanding existing anaerobic digestion facilities in California.
- Contract Manager: Ken Decio, CIWMB

Why Anaerobic Digestion? Why Now?

Technical References:

- **‘Current Anaerobic Digestion Technologies Used for Treatment of Municipal Organic Solid Waste’, March 2008**
(<http://www.ciwmb.ca.gov/publications/default.asp?pubid=1275>)
- **Powerpoint Presentation on Anaerobic Digestion July 21, 2009**
(<http://www.ciwmb.ca.gov/Agendas/agenda.asp?RecID=1575#AG18405>)
- Principal Contact: Ron Lew, CIWMB
- **‘Conversion Technologies Status Update Survey’, April 2009**
(<http://www.ciwmb.ca.gov/Publications/Organics/2009008.pdf>)
- Contract Manager: Jacques Franco, CIWMB

UC Davis Biogas Energy Project

**Digester capacity –
3-8 tons per day**
**Digestion temperature –
135 F**
**Expected biogas yield –
11,000- 22,900 ft³/day**
**Electricity output –
600- 1200 kWh/day**



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