

US EPA ARCHIVE DOCUMENT



# How to Co-Site Anaerobic Digesters

**California Bioresource Alliance  
Symposium  
Session 6 Facility Siting  
September 19, 2013**

Wayne Bishop  
Senior Project Developer  
Harvest Power, Inc.

# Intro – About Harvest



## Co-Siting Specifications: What To Look For

- Host Site
  - Real Estate
- Infrastructure
  - Interconnection
  - Load
  - Utilities
    - Air
    - Water
    - Sewer
    - Natural Gas
    - Electricity
- Feedstock(s)
- Effluent Treatment
  - How will it be managed
    - Composting?
    - Liquid/Solid Fertilizers?



## Good Co-Location Examples



## Values Associated With Co-Location

- CapEX
- OpEx
- Access to Offtake Agreements
- Ease of permit modifications and shorter time to market\*
- Access and Availability of Feedstocks
- Environmental Solutions\*
- Inexpensive Land Lease
- Co-generation or Tri-generation schemes\*
  
- \*Examples from Audience?!



# Potential Pitfalls When Structuring Deal With Host

- Financial Stability
- Length of Business: Are they In It for the Long Run?
- Environmental Liabilities
- Potential Impacts from Host
- Land Lease and Feedstock Agreements
- Locking Into Sole-Sourced Deal
- Do you Flexibility?
- Other Examples?



## How To Find Good Co-Location Sites

- Economic Development Corporation (EDC)
- Drive Around
- Ask Around
- Attend Conferences, Like this one! (e.g. Network...LinkedIn Anyone?)





## Good Host Site Identified; Next Steps?

- Feedstock Analysis
- Energy Output, Electricity and/or CNG?
- Technology – HSAD or LSAD?
- Annual Energy Volume?
- Basis pro forma
- Pros & Cons
- Go-No/Go Decision Process



## Questions?

- Wayne Bishop
  - Senior Project Developer, Harvest Power
  - [Wbishop@HarvestPower.com](mailto:Wbishop@HarvestPower.com)
  - 781-902-8650
- 
- [www.harvestpower.com](http://www.harvestpower.com)