Dane County’s Initial Objectives

- Agricultural Viability & Sustainability
- Viable Alternatives
- Water Quality Protection
- Economic Feasibility
Development of Renewable Projects - Issues

- **Multiple Players**
  - Farmers, Substrate Providers, Financers, Engineers, Technology Vendors, Utility Companies, Neighbors, Regulators (DNR, EPA, Town, County, State), Politicians (County Board, County Executive, Senators, Governor), Lawyers, Reporters, Environmentalists

- **Project Cost / Financing**

- **Public Perception**
Project Benefits

- Meets Dane County’s initial 3 objectives
- 60% - 70% P removal
- 2 MW electric production
  -- Powers 2,500 Dane County homes
- Greenhouse gas emission reduction
  -- Reducing over 29,000 tons/yr CO\textsubscript{2} equivalent by capturing methane
- Allows farms to better manage nutrients
  -- Reduced P
  -- Less trucking and smaller land base
  -- Longer spreading window
Overview of the Project

- Located in the Town of Vienna

- Serves three primary dairy farms
  - ~2500 cows
  - Manure piped to facility
  - 10-15% food waste substrate added
  - Complete mix digestion, followed by solids separation with a centrifuge
Vendor RFP

- Public RFP
- Ownership Decided
- Clear Horizons LLC Selected
- Project Development Began – Fall 2009
  - Farmers
  - Clear Horizons
  - Dane County
  - State of Wisconsin Grant
Project Development

- Funding
- Land agreements
- Agreements with farmers – manure & solids
- State and County agreements
- Zoning
- Negotiations with utilities
- DNR permits – water & air
Project Financing

$13 million construction cost
- $3.3 million State of Wisconsin grant
- $4.0 million Federal investment tax credit
- $6.7 million Clear Horizons debt financing

15% Projected Return on Investment
How to Encourage Future Projects

- Financial
  - Electric Buyback Rate
  - Investment Tax Credit

- Standardization
  - Contracts
  - Utility Requirements
  - Permits and regulations

- Public Awareness
Questions?

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