ECO Technology Solutions

- **ECO - A Cooperative Beginning**
  - 1000 cooperatives
  - 83% Counties In U.S.
  - 36 Million Customers

- **ECOTS - A Privatized Subsidiary**
  - Wide Cooperative Access
  - Expanded Customer Base
  - More Focused Activities

(www.ECOTSUSA.COM)
Biogas Decisions in Agriculture

Do I need it to live in my community?
Do I need it to operate?
Will it help my business?
What technology should I use?
Does it work?
What does it Cost?
Will it work in ten years?
Can I afford it??
Can I get financing?
What type of resources?
How much time?
Should I do this by myself?
Should I work with the other farmers?
Who can I trust?

Is there a better way?

www.ecotsUSA.com
Community Digester

- Self-sustaining community owned-operated business
- Ag-Based biowaste treatment facility that is
  - Self sufficient, economically viable business,
  - Owned-operated by local community,
  - Provides treatment services to multiple farms,
  - Converts manure into a community energy resource,
  - Operation is independent of the farms.
- Creates new jobs within rural farming communities
Choice of Digester Technology

- Ideal for use of Co-Substrates
- Integrated Sediment Removal System
- Mesophilic
- No Internal Moving Parts
- Proven Reliability
- Above Ground Vessel
Engineered System Approach

- Take-Over Station
- Feedstock Pre-Treatment
- Unique Digester Design
- Efficient CHP
- Biogas Conditioning/Storage
- Effluents Processing
Engineered System Approach

- Fertilizer Factory
- Provision for Truck Cleaning
- Minimum Emissions
- Provisions for Nutrient Management
- Flexible, Modular Design
- Pathogen - FREE Byproducts
- Zero Discharge
- Low Operating Costs
Example Project

• Bioenergy Cooperative of Perry
  - A Community-Based Manure Processing Facility For Multiple Farms

• Plant Specifications:
  - Process manure from 3,000 cows
  - Process 50 tons of food waste per day
  - Produce pathogen-FREE solids and liquids
  - Produce equivalent of 2MW of Biogas
  - 1MW of CHP planned for Phase 1

• Significant Progress
  - Formed Cooperative in Sept. 2003
  - $1M NYSERDA award through ECOTS
  - Plant Engineering in Progress
  - Business Planning in Progress
  - Expected Start-up: 1st quarter of 2005
Examples of Biogas Plants - Agriculture
Larger Biogas Plants
Even Larger Plants
Community Bioenergy Cooperative

- Business Focused on Community Issues
  - Improves quality of life
  - Allows Farmers to Concentrate on Their Own Business

- Provides Solution for Manure Management
  - Lowest Cost/ Lowest Risk
  - Farm Size not an Issue
  - Diversified Revenue
  - Low Cost for Compliance with CAFO Rules

- Solution for Other Waste from Local Businesses

- Create New Jobs

- Significant Environmental Benefits
How can I get more information?

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