

November 21, 2010

Rural Minnesota Energy Board Matt Johnson, President and CEO



ET Overview

- Company Background
 - Developer of proprietary AD technology
 & biogas purification system
 - Utilizing technology to create integrated clean energy business
 - Transform CAFO into renewable natural gas (RNG) wells
 - Distribute compressed natural gas (CNG) vehicle fuel
 - Located in Mankato, MN





What we do

Biogas Division

- Engineering services
- Turn-key renewable energy production facilities utilizing ET's AD technology and ET's biogas purification equipment
- Biogas purification equipment (H₂S and CO₂ removal)
- Biogas plant management services
- Biogas optimization solutions

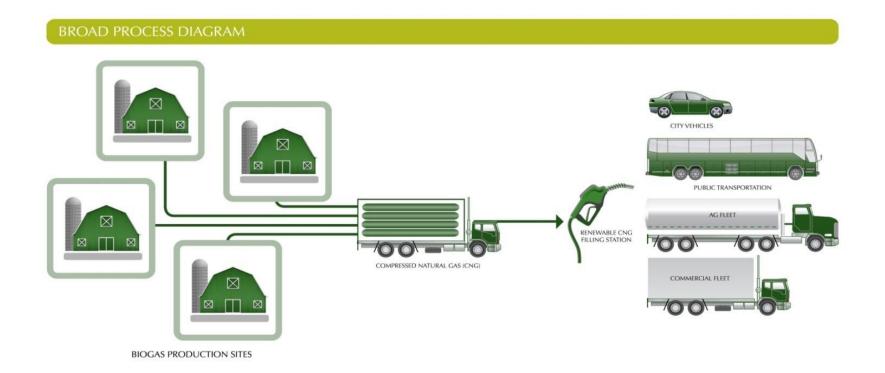
Fuel Division

- Design, own and operate fueling infrastructure
- Assist fleet customers with vehicle conversion or acquisition
- Purchase RNG to service fuel contracts





Business Model

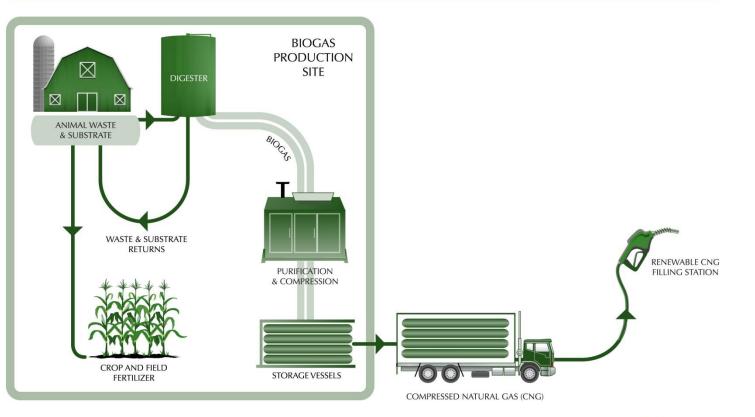






e-Gas System

PROCESS DIAGRAM





System Advantages

- Farm-scale anaerobic digestion
 - Manure value chain remains intact
 - Allows for distributed production network
- Turn-key renewable energy production facility
 - Single source for the production of pipeline grade methane
 - Lower cost digester and biogas purification components
 - Project development cost efficiencies
- Proven High Efficiency
 - Proprietary mix and control system proven by pilot facility
 - Faster retention time: 14 vs. 21-28 days
 - Higher methane yield: 65-70% vs. 55-65% methane
- Significant market expansion
 - US EPA: 7,000 farms in US able to support anaerobic digestion
 - e-Gas System: 16,000 farms in Midwest able to support technology





CAFO

Process:

- ✓ Farmer owns production system
- $\checkmark~$ ET provides fee-based operation and maintenance
- $\checkmark~$ ET purchases from the farmer and distributes the gas

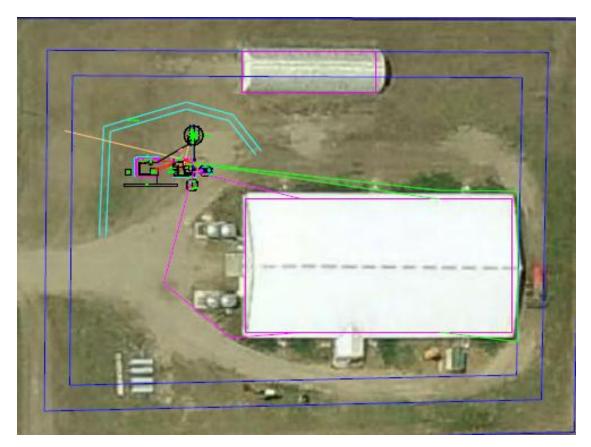
System Specs :

- ✓ System Size minimum 40cfm/2400 head
- ✓ Gas Production minimum165,000 gasoline gallon equivalents
- ✓ Design, Engineering, Permitting, Construction
- ✓ Components Digester, Gas Conditioning (CO2, H2S)
 Financials:
- ✓ Estimated 22% IRR (20yr)
- ✓ Possible EQIP grants to defray cost





Site Layout



Proposed Research Facility in Blue Earth County





Fleets are Ideal

- ✓ High volume fuel consumption
- Easily supported by a centralized fueling infrastructure
- Operation depends on transportation to deliver product or service
- \checkmark Opportunity for big cost savings
 - 85% of fleet vehicle operating cost goes to fuel





Compressed Natural Gas (CNG) Basics



- Light, medium, & heavy duty vehicles
- Gas delivered from production sites
- Gas is compressed to 3,600 psi for dispensing
- Dispensed similar to gasoline/diesel
- Stored in 1 or more cylinders on vehicle





CNG Advantages



Cheaper

 20% less than gasoline or diesel

Cleaner

 RNG can reduce vehicle emissions up to 88% compared to gasoline



Local and Renewable

- Capitalizes on regional waste resources
- Energy dollars stay local

Being green is good, being green and saving green is better...



Three Generations, Malia Krohn

By permission



Fleet Customer

ET Provides:

- Assistance with conversion of fleet or purchase of CNG vehicle
- ✓ Fuel contracts
- ✓ Access to its fueling stations

Customer savings driven by:

- ✓ 20% increase in mpg
- ✓ 50%−100% CNG replacement

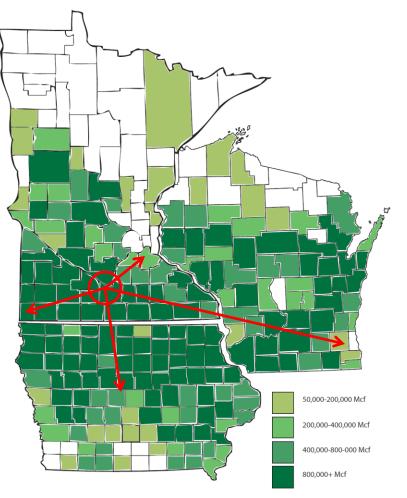
Example	Per Vehicle
Annual Gallons	10,000
Annual savings @2.85/gallon	\$7,200
Simple Payback	1.6 years
IRR (3yr)	37%





Regional Network Will Span Midwest

- Build hub in the Greater Mankato Region
- Build and connect hubs
 Des Moines
 Minneapolis
 Madison
 - •Milwaukee
 - •Sioux Falls
- Takes advantage of waste resources in the region and benefits local economies







Milestones

Achieved 2008-2010

- Pilot production system in operation since Fall 2008
- Test vehicle conversion Fall 2010
- Research project with MnCar at MSU-Mankato
- Initiated permitting first full scale site

<u>Planned 2010-2011</u>

- Raise 1st round of capital
- Install 1st biogas conditioning component
- Complete 2 full scale production systems
- Provide 5 fleet customer incentive conversions
- Install Fueling infrastructure (transport, storage fueling station)







Contacts

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