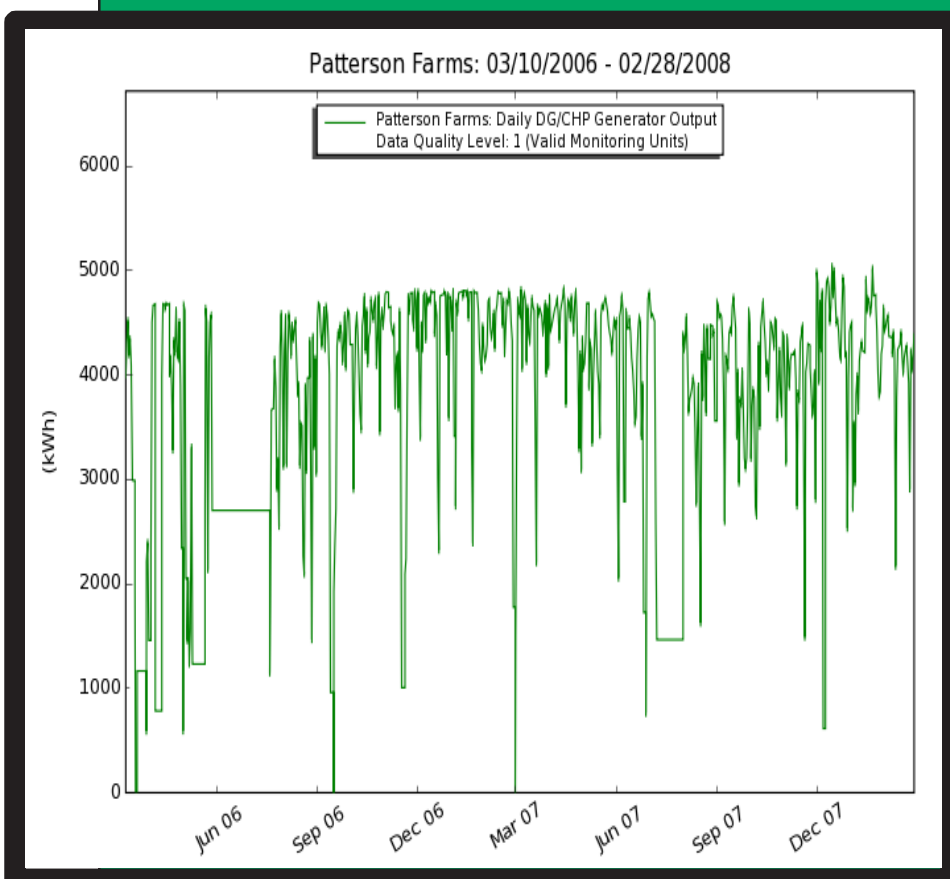


Initial Capital Costs

Component	Cost (\$)
Digester	
- Site Work	62,723
- Engineering design	99,532
- Concrete digester (Including pumps, cover, concrete, and heating pipes)	495,930
- Misc.	31,893
- Family Labor	68,553
Subtotal	758,631
Energy conversion	
- Engine-generator set	200,000
- Electrical wiring and control systems and plumbing	317,476
- Biogas utilization building	51,601
Subtotal	569,077
Solid-liquid separation	
- Building	127,775
- Separator	53,147
Subtotal	180,922
TOTAL Capital cost	1,440,078



A ROOTS gas flow meter measures the flow of biogas to the engine-generator set



Analyzing the contents of solids found at the bottom of the manure influent pit

“Avoided cost electrical savings continue to pay for the cost of operating the digester. Odor control of liquid manure is beneficial. We have learned the start-up lessons and are beginning to learn on-going lessons of maintaining the digester.”

- Connie Patterson

The farm received a total of \$1,268,122 in **FUNDING** from:

- New York State Energy and Development Authority (NYSERDA)
- Cayuga County Soil and Water District (CCSWD)
- United States Department of Agriculture (USDA)

Total public funding received represents 88% of the initial capital costs

The farm generates **REVENUE** from the digester system with the following products:

- Sale of excess power generated back to the utility grid; the farm receives about \$0.06 per kWh
- Sale of carbon credits to the Chicago Credit Exchange. From the period 2006-2007 the credits were valued at approximately \$8,000.
- Tipping fees received are \$0.06 per gallon for whey delivered to the site by the Kraft plant.

For more information

Download and print the Patterson Farms Case Study at:

<http://www.manuremanagement.cornell.edu/HTMLs/CaseStudies.htm>

Contact:

Connie Patterson, President, Patterson Farms, Inc.

Phone: 315-253-5966

Email: connie7681@aol.com

