

## Previous monitoring results continued...

Energy production results: Data on energy production/use was collected between 1/2004 and 5/2005.

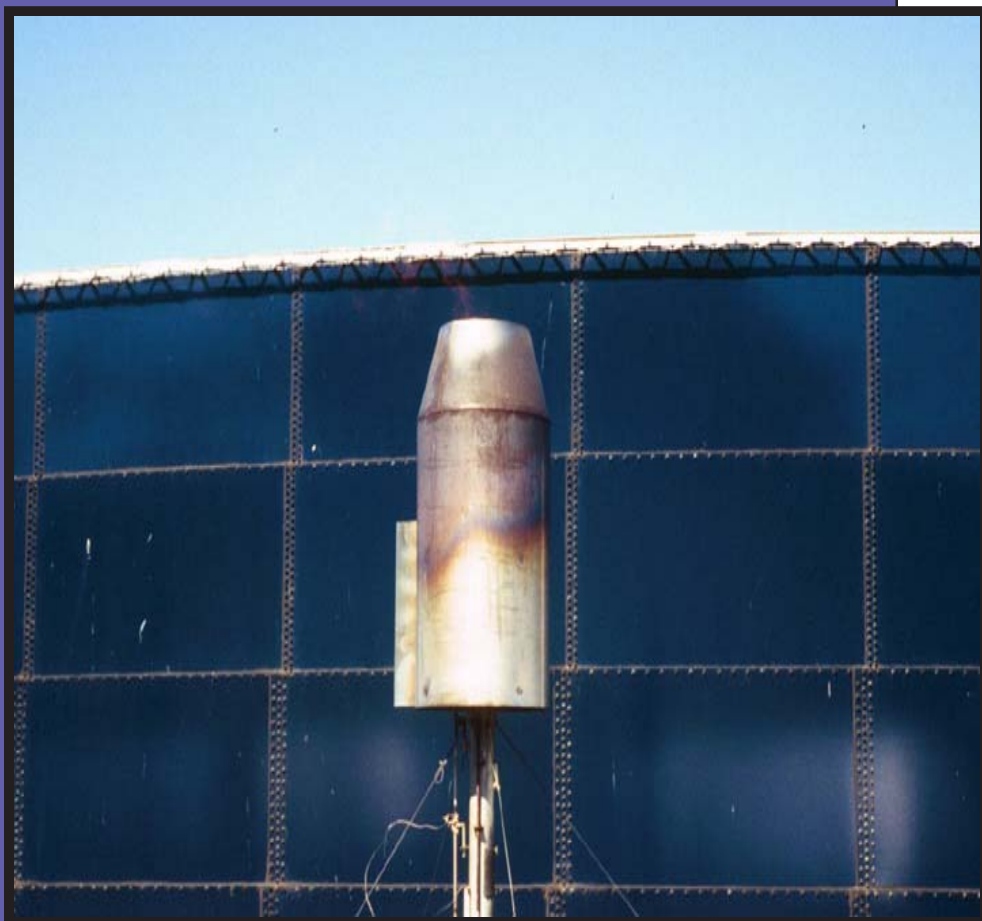
- Average monthly metered biogas = 673,419 ft<sup>3</sup>
- Average biogas CO<sub>2</sub> content = 35.4%

## Initial Capital Costs

Component	Cost (\$)
Digester	\$350,000
Electrical and Heating Systems	
- Microturbines	136,000
- Boiler and Piping	50,000
<b>Subtotal</b>	<b>186,600</b>
Solids and Liquids Separation	
- Separator	46,613
- Separator Building	42,387
<b>Subtotal</b>	<b>89,000</b>
Liquid Storage	315,000
Other	43,800
<b>Total Capital Cost</b>	<b>984,400</b>



Gas scrubber; iron sponge media



Excess biogas is flared

“A successful digester system requires constant attention and active management.”

Trevor Head, NHV

## Biogas Distribution

The biogas distribution system at New Hope View follows the priority schedule below:

- Microturbine: To produce power
- Boiler: To maintain temperature of digester; heat barn floors
- Flare: For excess gas

## For more information

Download and print the New Hope View Case Study at:

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

See complete Interim Report at:

[http://www.manuremanagement.cornell.edu/HTMLs/Project\\_Reports.htm](http://www.manuremanagement.cornell.edu/HTMLs/Project_Reports.htm)

Other documents:

- “Cleanout of a Plug-Flow Anaerobic Digester after Five Years of Continuous Operation” (see Manure Management website)
- “Biogas Processing”

see: [http://www.cowpower.cornell.edu/htm/frameset\\_project\\_docs.htm](http://www.cowpower.cornell.edu/htm/frameset_project_docs.htm)

Contact:

Trevor Head: New Hope View Farm

Phone: (607) 749-5800

Email: [Nhvfarm1@centralny.twcbc.com](mailto:Nhvfarm1@centralny.twcbc.com)

