

## Lawnhurst Energy, LLC

Stanley, NY

**Owner:** Jensen Family

**Developer:** EnviTec Biogas USA Inc. (EnviTec USA)

**Contact:** Tom Lawson , EnviTec USA, 585-662-4175, T.Lawson@envitec-biogas.com

Project impetus was to prepare the Jensen family farm for the fourth generation of operation, to allow the farm to control traditional overhead costs and to be environmentally conscious by properly handling manure generated from farm operations.

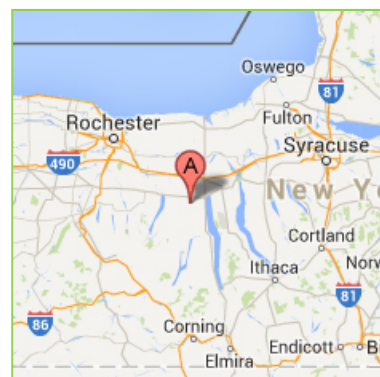
Collectively the digester facility gives the Jensen family better control of their total operational package.

**Organizations involved:** NYSDEC, NYSERDA, USDA, NRCS, Farm Credit East and EnviTec USA\*

\* ABC member

*Revised 4/3/14*

*See more biogas project profiles: [americanbiogascouncil.org](http://americanbiogascouncil.org)*



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### Inputs and Outputs

Biogas production:	The digester is operating as designed and is producing consistent biogas to fuel under full load a Jenbacher CHP running 24/7 with an electrical output of 541 kWel and a heat output of 1,109 MBTU per hour.
Feedstock(s):	A wet, complete mix, mesophilic 1,500,000 gallon gross volume anaerobic digester facility built by EnviTec USA is used to process manure from 1,500 Holstein milking cows, feed refusal, yogurt processing wastes and food waste.
End use:	Fueling the Jenbacher CHP - Electricity at a rate of 541 kWel, hot water at 210 degrees Fahrenheit based on a heat output of 1,109 MBTU per hour.
Additional byproduct(s):	Dewatered and dried (from the CHP hot water heat) digestate is being used as bedding back in the barns. Dewatered liquid (liquid fertilizer) will be applied back on the fields as fertilizer in place of the past practices of spreading manure.

### Finances, Beneficiaries, and Expansion

Project financing:	EnviTec USA built this digester project for the Jensen Family. They arranged all project financing. It was built with a combination of their own money along with assistance from available Federal and State grants such as the Federal USDA 1603, Federal NRCS and New York State NYSERDA programs.
Customer:	The Jenbacher CHP is providing all the farm's electrical needs, excess electricity is being wheeled 24/7 back to the municipal electrical grid. Hot water, produced by the CHP, is being used to heat farm buildings. Hot water from the CHP is also being used for process needs in

the milking parlor. Excess hot water and electricity is also available for peripheral farm operations.

Environmental and economic beneficiary:

The Jensen family

Long term plans?

Possible additional farm operations (such as flaking) powered from excess electricity and hot water and perhaps in the future a second digester.

