

Hermany Farms Co-Gen

Demonstrate the efficiency of a grid-connected CHP system consisting of three 75 kW Tecogen CM-75 natural gas-fired engines with hot water heat recovery.

BACKGROUND

Hermany Farms (HF) is a family owned dairy operation that processes 1,300,000 gallons of raw milk on a monthly basis. HF, like many similar dairy processing facilities, has experienced rapidly escalating operating costs, specifically electricity costs. This will ultimately impact consumer cost for milk and milk products. Due to its location on the Con-Ed distribution system, HF has routinely experienced power quality problems, causing This has caused HF to curtail its operations during these times and has also caused a rise in plant maintenance due to premature failure of electrical components with the plant.

OBJECTIVE

Hermany Farms will demonstrate the efficiency of a grid-connected CHP system with hot water heat recovery at a fluid-milk processing plant.

DESCRIPTION

Three 75 kW Tecogeni natural gas-fired engines will be installed with hot water heat recovery. The recovered heat will be used for process hot water milk operations, sanitary and DHW, and condensate pre-heating.

BENEFITS

This project will result in peak load reduction of up to 200 kW, reduce annual electricity usage by 800,000 kWh/year, and result in over \$75,000 in net annual energy savings. Approximately 80% of the rejected heat will be utilized.

Funding	Encumb to Date	Pending	Total Anticipated
Hermany Farms, Inc.	\$250,000.00	\$0.00	\$250,000.00
NYSERDA	\$250,000.00	\$0.00	\$250,000.00
TOTALS	\$500,000.00	\$0.00	\$500,000.00

Manager Kear, Edward
Contracts STD-6828
Contractors Hermany Farms, Inc.
Technologies Cogeneration
Cities Bronx
Counties Bronx