

Stanton Farms

London, Ontario, Canada

agenitor 408 x 3
biogas

Fast Facts:

Location: London, Ontario, Canada

Generating Capacity: 1.3 MW

Extras: Biogas treatment system & Flare System

Gas Type: Biogas



About the Site:

From the way they cool the milk using a combination of earth energy and unique heat-exchange technology, to converting on-farm organic waste to renewable energy to power-up the neighbouring community, Stanton Farms is always looking to close-the-loop in every aspect their operation. Family owned and operated by Laurie Stanton and his wife Sandy, along with their children Jeff, Jim, Greg and Amy, Stanton Farms is the largest of six agricultural biogas facilities in Ontario. Stanton Farms has 2000 dairy cattle including those used for dairy production and a genetics and breeding operation. Each cow generates 4 kW/day of renewable energy from the manure they produce.



Application

A slurry of manure solids is pumped into a mixing tank and combined with off farm organic waste which is then continuously pumped into the digester tanks for methane gas processing.

The methane is then put through a gas treatment system before entering one of three agenitor 408's to generate electricity and heat. The electricity is put on the grid and the heat is recaptured and utilized to heat the biogas building, the waste material for processing and water for the in-floor radiant hot water system.

On farm biogas advantages include reliable renewable energy generation (ability to generate power 24/7), numerous environmental benefits and creates a rural green economy.

