

# Greenholm Farms

## Embrow, Ontario, Canada

**agenitor 306**  
Biogas

### Fast Facts:

**Location:** Embrow, Ontario, Canada

**Generating Capacity:** 250 kW

**Configuration:** Container module

**Extras:** Biogas Treatment System

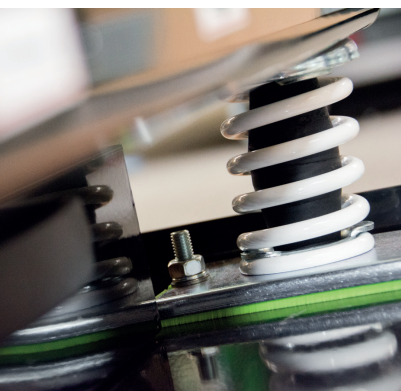


### About the Site:

Greenholm Farms is producing enough electrical energy to supply more than 200 homes in Canada. Thermal energy is utilized for various applications. The farmers signed a feed-in tariff based PPA (power purchase agreement) with the Ontario Power Authority to sell electricity to their grid.

### Application

This operation is converting manure produced from the approximately 175-head dairy herd using a modern above-ground anaerobic digester designed and constructed by PlanET Biogas Solutions Inc. The manure will be mixed with other unwanted organic waste material like grease from restaurants. Bacteria in the mixture breakdown organic matter, and by doing so, produce methane gas. The methane is then used to run a 2G agenitor 306 CHP system to produce 250kW/h electricity. In addition to producing electricity for sale, the CHP heat is reused and circulated by pipeline circuits to maintain the digester's constant 37°C. The fully containerized and modular 2G cogeneration plant is producing enough thermal energy to heat office space, the dairy barn and the home on the Stratford, Canada farm. The manure put through the digester is also used to fertilize the Green's 750-acre farm.



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