



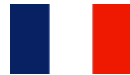
Driven by pure energy



PlanET Biogas Solutions Company Overview 2015

Company Overview - PlanET Biogas

- Founded in 1998. Headquarters in Vreden, Germany
- Opened First Canadian Office in 2006
- Built over 360 biogas plants world-wide, including nearly 1/3 of farm-based, biogas plants in Ontario
- Currently about 200 employees worldwide
- One of the top 5 leading manufacturers of biogas plants in Germany



 **More than 360 successfully realized plants worldwide!**



PlanET Biogas – Local Support and Expertise

- **Canadian Offices:** St. Catharines, ON & Lethbridge, AB
- **US Office:** Cortland, NY
- **Operational Plants:** 13
- **Plants under Construction:** 1
- **Plants in Permitting and Planning:** 7



PlanET Vision and Mission

Driven by Pure Energy – sustainable for the protection of the climate

We live our slogan “design, construction & service” and see ourselves as a long-term partner for our customers.

PlanET system biogas plants are

- customer oriented
- reliable
- innovative
- efficient

PlanET Characteristics:

- Clear products
- Long-term company business
- High quality
- Life cycle focussed
- Highly motivated and trained staff



Sources of Biogas

- Liquid dairy manure
- Chicken manure
- Vegetable Waste (ie. culled veggies)
- Grocery Store Waste
- Slaughterhouse Waste
- Fats, Oils, and Greases (FOG)
- Coffee Waste



20 Year FIT Contract Requires Flexibility

- Feedstock Availability – GTA
- Liquid and Solid Inputs
- Tipping Fees / Energy Potential



More Off-Farm Waste

- Good Communication With Neighbours
- Good Truck Access
- Higher Tipping Fees
- Higher Energy Potential
- More Contamination
 - Packaging
 - Plastics
 - Garbage
- Increased Cold Weather Protection



- Feedstock Shredding Technologies
- De-packaging Equipment
- Pasteurization Units



Greenholm Farms (*Woodstock, ON*)

Construction Start	July 2012
Commissioning	October 2012
Digester	2,078 m ³
CHP unit	250 kW
Feeding System	PlanET Mix
Input materials	Dairy Manure, Pet Food, Solid Digestate



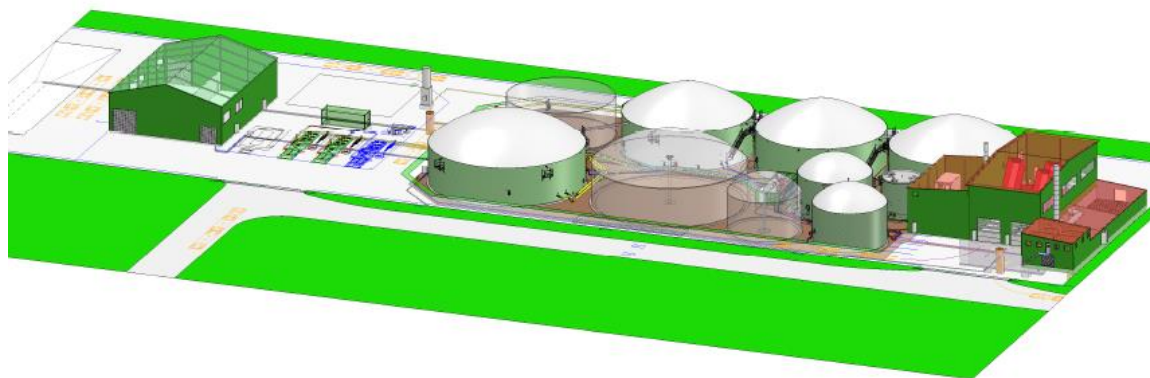
Lethbridge Biogas (*Lethbridge, AB*)

Construction Start	July 2011
Commissioning	March 2013
Digester(s)	3 x 3,926 m ³
Digestate Storage	1 x 5,645 m ³
CHP unit	2 x 1,425 kW Jenbacher
Feeding system	PlanET Vario 74 m ³
Input materials	Slaughterhouse Waste, Animal Deadstock, Food Processing Waste, Dairy Manure



High Pressure Sterilization Pre-Process

- 180°C, 40min, 12 bar
- Capable of pre-treating SRM Material



Thank you for your attention!

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