

One-Of-A-Kind Interactive BioGas Display Will Demonstrate Waste to Energy!

Canada's Outdoor Farm Show, with assistance from the Ontario Ministry of Agriculture, Food and Rural Affairs, will showcase a new interactive display demonstrating biogas technology. With help from a host of industry partners, the exhibit will explain the process of anaerobic digestion and production of biogas (methane) from manure and waste products.

To help demonstrate this process, a life-size mockup of an anaerobic digester has been constructed by Ontario Harvestore Systems with cutaways for attendees to enter and exit the digester in order to see the working parts inside without the manure and gas. Once inside the digester, visitors can see first-hand how materials can be fed into the unit, how the mixtures are agitated and regulated, and what happens to the gas and leftovers (called digestate) afterwards.

Once visitors understand the basics, they can see a real anaerobic digester processing manure from the 70 head of dairy cattle being milked in the Olympia Dairy Innovation Centre on the Lely and DeLaval robotic milking systems. This portable digester has been designed and manufactured by Highmark Renewables Research LP of Vegreville, Alberta and is called IMUS - Integrated bioMass Utilization System. This fully transportable version of innovative Canadian technology at work is capable of processing about 200kg of waste per day on location.

This mobile version of IMUS will be loaded onto a transport and delivered to Woodstock from its home in Alberta prior to the start of the Farm Show. "Much of the current biogas technology has its roots in Europe," says Murray Logan, Co-ordinator of the Canadian Energy Expo. "So we are especially pleased to be able to highlight and demonstrate Canadian innovations in this green energy sector." Highmark Renewables Research are currently constructing a BIG brother to the smaller mobile IMUS coming to Ontario - a 5MW installation that will process 500 tonne of waste per day.

"None of this could be possible without the involvement of our many industry partners who are demonstrating their products and equipment used to support digestion and also process the gas into different forms of energy afterwards," adds Logan. "Agriculture has the opportunity to demonstrate how waste can be turned into energy – and it doesn't get any greener than that!"

The magnitude of this project means that pre-arranged VIP tours will be offered during the weeks prior to Canada's Outdoor Farm Show on September 14, 15 & 16, 2010. "This gives special interest energy groups, municipalities, and farm groups an opportunity to have personalized tours explaining biogas technologies in more depth and customized to their particular area of interest," explains Logan.

The biogas demonstration will be an important part of Canada's Outdoor Farm Show, running September 14, 15 & 16, 2010 at Canada's Outdoor Park in Woodstock, ON.

For more information, visit www.OutdoorFarmShow.com

