

## 2016 Agricultural & Municipal Biogas Forum: Closing the Loop

Abbotsford, B.C. January 28<sup>th</sup> - 29<sup>th</sup> 2016

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### AGENDA

#### Thursday January 28<sup>th</sup>

##### **Biogas for Agriculture: Farm to Fuel**

Biogas presents new opportunities for farmers and agri-food operations, with significant potential for long-term financial and environmental gain. Determining if biogas is a good fit for your farm/agri-food operation requires considerable research and planning.

##### **On-Farm Biogas: 1:30pm – 2:30pm**

Learn about the state of on-farm biogas in Canada, and hear presentations about on-farm biogas projects in North America and how they operate:

- State of On-Farm Biogas in Canada: *Canadian Biogas Association*; and
- Octaform Stay-In-Place Formwork. *Octaform Systems Inc.*

##### **Coffee Break 2:30pm – 2:45pm**

##### **On-Farm Nutrient Management: 2:45pm – 4:30pm**

A key component of any on-farm biogas project is nutrient management. Learn about nutrient management technologies and the potential value of these nutrients to you:

- Overview of Nutrient Recovery Technologies: *Dorset Green Machines*;
- Trident Nutrient Recovery Systems Update: *Trident Processes*;
- Phosphorous Recovery from Animal Manure: *University of B.C.*; and
- Field Application Trials for Digestate: *Dave Melnychuk*.

#### Friday January 29<sup>th</sup>

##### **Municipal Guide to Biogas**

Municipalities are increasingly concerned about expanding diversion rates, treating organic waste, and reducing waste treatment and hauling costs. Understanding the benefits and opportunities for biogas production is important when reviewing potential organic waste management options.

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### Municipal Biogas: 9:30am – 11:00am

Learn about different types of municipal biogas projects being planned, or currently underway in B.C., their benefits and key lessons learned:

- Quad-generation of Landfill Gas at a Commercial Greenhouse: *Quadrogen*;
- Business Case, Up-Date and Lessons Learned from City of Surrey's Biomethane (RNG) Biofuel Facility: *City of Surrey*; and
- Use of CHP Units at Municipal Digesters. *Cullen Diesel Power*.

### Coffee Break 11:00am – 11:20am

### Case Study: Municipal Biogas in Sweden: 11:20pm – 12:00pm

As a world leader in municipal biogas, a lot can be learned from the Swedish experience. Learn about municipal biogas projects in Sweden, their drivers and key lessons learned:

- State of Municipal Biogas in Sweden: *Swedish Institute of Agricultural and Environmental Engineering*.

### Lunch 12:00pm – 1:00pm

### Biogas as a Vehicle Fuel: Closing the Loop

Renewable natural gas (RNG) is cost-competitive with diesel fuel, is carbon neutral, and presents the biggest opportunity for near-term, cost-neutral sustainability. Learn how Canadian municipalities and companies are closing the loop on their organic material production, and how yours can do the same.

### CNG as a Stepping Stone to RNG: 1:00pm – 2:00pm

Learn about the process for converting fleets/vehicles to compressed natural gas, how this is as a good stepping stone for renewable natural gas, and the reasons for doing so:

- Assessing the Business Case for CNG & RNG Conversion: *Change Energy*; and
- Fleet Managers Experience of Switching to CNG: *Progressive Waste Solutions*.

### Coffee Break 2:00pm – 2:20pm

### Biogas to RNG Upgrading: 2:20pm – 3:40pm

Learn about technical developments and innovations in biogas to renewable natural gas upgrading technologies, and how they might fit your needs:

- Overview of RNG upgrading technologies: *Swedish Institute of Agricultural and Environmental Engineering*;
- Water Scrubber Upgrading Technology: *Greenlane Biogas*; and
- Membrane Separation Upgrading Technology: *DMT*.

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