

ACHIEVING CANADA'S BIOGAS/RNG POTENTIAL

TUESDAY JANUARY 14TH

Pinnacle Hotel Harbourfront (Vancouver, B.C.)

Registration & Breakfast (7:00 – 8:00 am)

Registration opens at 7:00 am. Breakfast and coffee served until 8:00 am.

Biogas/RNG Workshop – Part 1 (8:00 – 10:00 am)

With the 2018/2019 announcement of B.C.'s CleanBC Plan, release of Canada's first national Bioeconomy Strategy, and continued work on the federal and B.C. Fuel Standards, government recognition of biogas and renewable natural gas (RNG) has never been greater. However, setting RNG targets and achieving them are two very different things.

Join us for a half-day Workshop to learn more about the role different government organizations will play in adoption of biogas and RNG, and have your say on what needs to be done to facilitate this transition in B.C. and Canada.

Coffee Break (10:00 – 10:30 am)

Biogas/RNG Workshop – Part 2 (10:30 – 11:30 am)

Continuation of the half-day Workshop.

Lunch (11:30 – 12:30 pm)

Biogas/RNG Tour (12:30 – 5:30 pm)

Lush: As a consumer of 100% RNG, Lush is leading the charge towards sustainability. Now, Lush has gone one step further by installing CleanO2's CARBiNX micro-carbon capture technology. This technology captures carbon emissions from their bath bomb process and turns it into sodium carbonate (soda ash). Join us to hear how all this is possible.

Village Farms: For years Village Farms has used landfill gas in their co-gen engines to produce renewable electricity for sale to B.C. Hydro, and heat for use in their greenhouses. Quadrogen Power Systems has installed a hex-generation demonstration system at Village Farms for converting landfill gas into six renewable products. In the first stage, RNG will be produced and compressed into CNG. Later, biodiesel, electricity, heat, hydrogen, and carbon dioxide will be produced. Join us to learn more about Village Farms' landfill gas past, present and future.

*Note: All attendees **MUST wear closed toes shoes** (steel toed shoes preferable). Absolutely no heels allowed.*

Networking Reception (5:30 – 7:30 pm)

All attendees are invited to the 2020 Value of Biogas West Networking Drinks Reception. Network with intelligent, likeminded individuals while enjoying a few snacks and drinks from the cash bar.

CONFERENCE AGENDA

WEDNESDAY JANUARY 15th

Pinnacle Hotel Harbourfront (Vancouver, B.C.)

Registration & Breakfast (7:30 – 8:30 am)

Registration opens at 7:30 am. Breakfast and coffee served until 8:30 am.

Biogas Updates From Around the World (8:30 – 9:20 am)

Globally and locally RNG production is growing. Hear about this growth in Denmark and a little closer to home:

- B.C.'s RNG Target: What We Can Learn from Denmark - **Will Cleveland and Trent Berry**, *Reshape Infrastructure Strategies*; and
- Renewable Natural Gas in B.C. - **Scott Gramm**, *FortisBC*.

Exhibitor Showcase (9:20 – 9:50 am)

Hear a very quick introductory word from each of our 2020 Value of Biogas West exhibitors.

Coffee Break (9:50 – 10:30 am)

Feedstock Optimization & Opportunities (10:30 – 11:40 am)

The importance of feedstock to biogas plants is well known. Learn about potential new sources of feedstock and innovative pre-treatment technologies that could boost biogas production:

- Technologies For Biogas Yield Optimization - **Christian Eichhorst**, *Weber Entec GmbH & Co.KG*;
- TERAX - How Thermal Deconstruction Will Revolutionize On-Farm Biogas - **Chris Bush**, *Catalyst Agri-Innovations Society*; and
- Tapping Biopolymers for Better Biogas Yield - **Luc De Baere**, *OWS Inc.*

Plant Design & Operation (11:40 – Noon)

Understanding both biochemistry and materials handling is vital for a successful biogas plant. Learn about important feedstock traits and how they impact plant design and operation:

- Before You Build – Matters Worthy Of Investigation - **Earl Jenson**, *InnoTech Alberta*.

Lunch (Noon – 1:00 pm)

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WEDNESDAY JANUARY 15th

Pinnacle Hotel Harbourfront (Vancouver, B.C.)

Biogas/RNG Case Studies (1:00 – 2:30 pm)

Hear about biogas projects from around the world, including a large-scale manure only plant, a plant that experienced catastrophic failure and subsequent recovery, plants in Norway and Hawaii, and landfill gas upgrading:

- Large Dairy Digester Design & Implementation: A Midwest Case Study - **Derek Hundert**, *PlanET Biogas Solutions Inc.*;
- Too Much of a Good Thing - Full-scale Experience with Digester Failure and Recovery - **David Ellis**, *Azura Associates*;
- Turning Waste into RNG to Benefit Cities in Norway and Hawaii - **Graham Hartlett**, *DMT Clear Gas Solutions*; and
- First of It's Kind Facility, Turnkey 2 stage PSA System at Wisconsin Landfill - **Robert Kinzler**, *BIOFerm Energy Systems*.

Coffee Break (2:30 – 3:00pm)

Digestate Management Opportunities (3:00 – 4:10 pm)

Digestate management is often an overlooked or misunderstood challenge/opportunity for biogas plants. Hear about some different opportunities for managing your digestate:

- Using Diluted Liquid Digestate as a Hydroponic Nutrient Solution - **Kealan Gell**, *Off-Grid Gas & Fertilizers Ltd*;
- Char Technologies: Pyrolysis For Digestate Management - **Andrew White**, *Char Technologies*; and
- Can a High Quality Compost be Made from Mixed Municipal Solid Waste - **Luc De Baere**, *OWS nv*.

Wrap-up (4:10 – 4:20 pm)

Join us for final wrap-up of the day and to learn about the upcoming Value of Biogas East conference in Toronto (March 26th and 27th).