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ADVANCING COMPOSTING, ORGANICS RECYCLING & RENEWABLE ENERGY

8th Annual BioCycle Conference On Renewable Energy From Organics Recycling

Presentations: Monday (pdf format)

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OCTOBER 6, 2008

Monday Morning

Plenary Session • Ballroom A B C D

9:00 AM – 10:15 AM

PATH TO SUSTAINABLE ENERGY

Moderator: Nora Goldstein, BioCycle

Road Map To Energy Independence

Strategy to reach Wisconsin's goal of generating 25 percent of its electric power and transportation fuels from renewable resources by 2025; Policies, research initiatives and incentives for state to capture 10 percent of the emerging bioindustry and renewable energy market by 2030.

[Judy Ziewacz, Wisconsin Office of Energy Independence](#)

Blazing Trails To A Renewable Energy Future

Wisconsin dairy farmer and entrepreneur moves forward with biogas pipeline grid, algae farming for nutritional supplements and pharmaceuticals, and heating the greenhouse with digester biogas as part of aquaculture enterprise.

[John Vrieze, Baldwin Dairy/Emerald Dairy](#)

Reading The Farm Bill's Tea Leaves

Using the federal 2008 Farm Bill incentives for biomass expansion; Funding opportunities for biomass energy projects.

[Andy Olsen, Environmental Law & Policy Center](#)

Concurrent Session A • Ballroom D

11:00 AM – 12:15 PM

ANAEROBIC DIGESTER DEVELOPMENT MODELS

Moderator: Robert Spencer, BioCycle

From Owner-Operator To Build-Transfer

Panel analyzes approaches to developing farm-based digester projects; Build-and-transfer model with farm ownership to protect eligibility for USDA funding; Own-and-operate model "borrows" manure to generate power, providing value to developer and farmers; Evaluating impact of development scheme on project scale, permitting, funding, utility contracts.

[Michael Casper, Microgy, Inc.](#)

[Steve Dvorak, GHD, Inc.](#)

[Norma McDonald, Phase 3 Renewables, LLC](#)

Concurrent Session B • Ballroom A B C

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11:00 AM – 12:15 PM

BIOMASS FUEL SUPPLY

Moderator: Rhodes Yepsen, BioCycle

GIS Tool Maps Biomass Sources

Development of Internet mapping system to measure biomass fuel potential; Assessment of range of biomass feedstocks available in Wisconsin.

[Matthew Kures, University of Wisconsin-Extension Center for Community and Economic Development](#)

Regional Inventory Assessment

Measuring energy and fuel consumption vs. local/ regional potential to generate renewable power and fuel; Study estimated California county's annual energy use, inventoried agricultural and forest residues, MSW, wastewater and used oils, to assess use to meet annual energy demand.

[Mark Jenner, Biomass Rules, LLC](#)

Fuel Stock Flow For Biomass Facility Development

Building feedstock supply certainty into a large-scale biomass project; Fuel availability and characterization; Pricing and sensitivity to shifts in demand and supply; Transportation and processing models.

[JD Lindeberg, Resource Recycling Systems, Inc.](#)

Monday Afternoon

Concurrent Session A • Ballroom D

1:30 PM – 3:30 PM

ANAEROBIC DIGESTION OF MUNICIPAL SOLID WASTE

Moderator: Nora Goldstein, BioCycle

Toronto Selects Digestion For SSO Stream

Construction of two, 55,000 metric tons/year digester plants to process residential source separated organics; Wet preprocessing step to remove plastic and other nonorganics; Siting facilities at city transfer stations; Biogas markets and digestate composting.

[Brian Van Opstal, City of Toronto, Ontario](#)

Processing Option For Mixed MSW

Integration of water-based separation/preparation and two-stage anaerobic digestion to process mixed MSW; Recovery of recyclable materials and energy; Commissioning 300 tons/day plant in Australia as key component of unified resource recovery park.

[Melvin Finstein, ArrowBio USA](#)

Integrated Facility For Municipal, Agricultural Organics

Farm-based digester in Italy processes municipal biowaste stream, manure and silage; Preprocessing system includes bag opener, bioseparator and blending unit, followed by digestion.

[Rich Miller, DODA USA](#)

4:15 PM – 6:00 PM

WASTEWATER TREATMENT DIGESTER INNOVATIONS

Moderator: Paul Nehm, Madison Metropolitan Sewerage District

Processing "FOG" In Treatment Plant Digesters

Addition of fats, oils and grease to wastewater treatment plant digesters to reduce clogging of municipal sewers and increase methane production; Use of grease holding tank with grinding and mixing to meter FOG into digesters; Case study.

[Greg Kester, California Association of Sanitation Agencies](#)

High Solids Digester Complements Biosolids Composter

New digester colocated with composting facility processes 5,000 dry tons/year of biosolids and generates 335 kW of electricity; Odor reduction impacts on biosolids processing; Plans to receive additional substrates, develop markets for digested solids.

[Annette Berger, KB Compost Services, Inc.](#)

Microturbine Performance At WWTP

Utility-installed microturbines generate electricity from biogas and reduce WWTP operational costs; Increased biogas yields from addition of high strength cheese waste; Sale of green energy credits.

[Dale Doerr, Sheboygan \(WI\) Wastewater Treatment](#)

Concurrent Session B • Ballroom A B C

1:30 PM – 3:30 PM

UTILITY PERSPECTIVES ON BIOGAS POWER, RENEWABLE NATURAL GAS

Moderator: Michael Casper, Microgy, Inc.

Strategic Drivers For The Natural Gas Industry

Perspectives on the gas industry's procurement of renewable natural gas;
Review of strategic drivers.

[Dan LeFevers, Gas Technology Institute](#)

Biogas-Based Energy In State RPS Programs

Analyzing how states' Renewable Portfolio Standards create a preference for biogas to electric projects.

[Claire Cowan, ICF International](#)

Balanced Marketplace For Renewables

A state regulator's perspective on creating a balanced marketplace for renewable natural gas.

[Eric Callisto, Chair, Public Service Commission of Wisconsin](#)

Adding Biogas, RNG To Utility Portfolio

Opportunities for biogas power and renewable natural gas in Wisconsin; Supply, economic factors to evaluate.

[Andy Kellen, Wisconsin Public Power, Inc.](#)

4:15 PM – 6:00 PM

PIPELINE QUALITY RENEWABLE NATURAL GAS

Moderator: Rhodes Yepsen, BioCycle

Biogas Purification Overview

Available options for upgrading biogas; Removal of water and impurities; Steps to eliminate hydrogen sulfide and decrease corrosivity of biogas.

[George Savage, CalRecovery, Inc.](#)

Economic Viability Of Upgrading Farm Biogas

Feasibility study assesses potential to directly market upgraded farm biogas ("moothane") to end users; Evaluating consumer appetite and price sensitivity for heating and automotive applications.

[Eric Camirand, Electrigaz Technologies](#)

Interconnection Standards And Gas Rates

Progress in renewable natural gas interconnection standards and customer-owned gas rates; Feasibility of connections for farm digester projects.

[Larry Krom, Focus On Energy](#)

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