

5th Annual
Growing
 the Margins:
 Rural Green Energy
 Conference & Exhibition

3rd Annual
 Canadian Farm & Food
Biogas
 Conference
 and Exhibition



February 28 – March 2, 2011 London Convention Centre, London, Ontario Canada

The 5th Annual Growing the Margins: Rural Green Energy and 3rd Annual Canadian Farm and Food Biogas Conferences and Exhibition will again be very much of interest to livestock and field and horticulture crop farmers, greenhouse operators, technology and service providers, governments at all levels, utilities, the research community, financial institutions and all other stakeholders who are attracted by the social, economic and environmental rewards of expanding opportunities for the farm, food and rural sectors beyond traditional crop, meat and food production to becoming suppliers of energy and value-added new products.

HOW TO APPLY ONLINE

All abstracts must be submitted online. It will be helpful to have your abstract (no more than 300 words) and brief biography in MS Word (or RTF) format so that you can cut and paste these into the appropriate sections. All information fields requested must be completed. Go to www.gtmconference.ca or www.biogasconference.ca and select 'Call for Abstracts' to complete the online submission.

CONTENT

Your abstract must clearly state the topics addressed or nature of your project. Briefly describe the manner in which the topic or project is addressed and describe the findings, conclusions or solutions to the issue. Authors are expected to clearly outline the key learning objectives of their presentations.

SELECTION PROCESS

All abstracts are subject to a thorough review. Selection criteria include relevance to the identified conference topics and a preference for practical, working examples of solutions and for case studies. Oral presentations will be 25 minutes inclusive of questions.

CALL FOR SPEAKERS

For additional information and assistance, contact:

First Stage Enterprises
info@gtmconference.ca or (416) 426-7029

NOTIFICATION

Please note:

- All oral presentations will be presented in English during the two days of the Conferences February 28th – March 1st.
- You will be notified of the outcome of the review process by the end of November.
- Presenters are responsible for all personal expenses incurred and must register for the Conference. Registration is free for the day of your presentation. Should you wish to participate in the full Conference, please note that authors are expected to pay for the second day and any optional events.

Please submit your abstract online at:
www.gtmconference.ca or www.biogasconference.ca

Note: Preference will be given to oral presentations that address applied commercial and pre-commercial technologies, programs and solutions, how they were developed, their economics and benefits, and regulatory and other challenges. The Conferences' objective is to provide project developers and other interested parties with information to determine feasibility and the opportunity to learn from experiences of others. Research presentations will focus on impacts on industry and measures to further the technology.

The Exhibition provides technology and service vendors the opportunity to show and talk about their offerings to all delegates during the course of the Conferences.

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Suggested Topic Areas

**GROWING THE MARGINS
 RURAL GREEN ENERGY TOPICS:**

**Designing Your Rural
 Solar System**

- Current Issues
- Economics, MicroFIT vs. FIT
- Fitting into the FIT Program
- Supply
- Domestic Content

**Operating Your Solar
 System Efficiently**

- Installation
- Components
- Operating Experience
- Safety Issues
- Case Studies

Looking to Future Solar Systems

- Policy
- Value in Use
- Contract Design to Ensure Long Term Value
- Land Use Issues
- Macro Economics

**Business Considerations
 for Solar Systems**

- Financial
- Financing
- Insurance
- Taxation
- Administration
- Other Business Considerations

**Community / Cooperative /
 Partnership Wind and Solar
 Projects**

- Other Small Green Energy Systems
- Case Studies
- Successes
- Projects in Progress

**Wind – Small and Medium
 Systems (under 500 kw)**

- Policy for the Future
- Improved Technology
- Design
- Economics
- Cost of Tower and Propeller Design
- Case Studies
- Equipment Verification
- Feasibility Studies
- CANWEA List of Projects
- Siting Considerations, e.g. setbacks
- Community Development Projects
- Storage Possibilities

**Purpose Grown Biomass
 Crops – Opportunities,
 Innovations, Barriers**

- Perennial Grasses
- Polycultures
- Woody Crops
- Annuals
- Biomass on Alternative Lands, e.g. airports, landfills, industrial blank zones

**Biomass Crop and
 Processing Residues**

- What's Out There
- Sustainability and Environmental Considerations
- Logistics
- Processing

**Biomass Conversion
 Technologies**

- Local Use of Heat
- Emission Standards
- Replacing Fossil Fuel Heating
- Combined Heat and Power
- Pyrolysis
- Stationary Engineer Requirements
- Gasification

**Biomass Markets for
 Smaller Projects**

- Value-Chain
- Logistics
- Energy Lifecycle Implications
- Producer to the Market

**Biomass Markets for
 Large Projects**

- Transport
- Boiler Modifications
- Scheduling

**Bioproducts and Biofuels
 (ethanol, biodiesel, etc.)**

- Biodiesel
- Bio-oil
- New Crops
- Sourcing of Components
- Byproducts
- Sourcing Materials
- Algae
- Replacing Producer Energy Needs
- Emerging Technologies, Fuels

**CANADIAN FARM & FOOD
 BIOGAS TOPICS:**

Lower Cost Methane Recovery

- Small System Feasibility
- European Examples
- Ontario Models

Managing Digestion

- GHG Emissions
- Peak Innovative Storage
- Running Out of Grid Capacity
- Fitting into the Grid Now

Co-Digestion Substrates

- Managing Contracts
- Managing Supply/Demand
- Moving Forward
- Use of Deadstock

Energy Efficiency and Operations

- Dispatchability

**Safety, Design and
 Management, Insurance**

Case Studies

- Solving Gas Production Issues
- REA Case Study

**Innovations in Europe and
 Around the World**

Direct Pipeline Injection

**Tying Municipal Organics
 to Biogas**

- Linking to Rural Areas
- Using Residual Heat
- Colocation of Industries
- Markets for Waste Heat
- Biosolids

**Urban Sourced Organics for
 Rural Biogas Systems**

- Interaction between Food and Rural
- Local vs Rural Digesting
- Depackaging

**Community / Co-op and Large
 Biogas Systems**

- Case Studies
- Experiences

Fitting into Smart Grid

- Grid Connection Innovations

See reverse for further details