The Canadian Institute presents

Waste-Based Energy

Capitalizing on Opportunities in Energy Recovery and Gas Capture from a Range of Industrial Waste

Learn all the vital information affecting the planning, development and operation of waste-based energy projects, including:

» Critical information about planning, cost estimations and the environmental assessment process

» Best possible ways to access funding for your projects in a credit starved environment

» How to mitigate negative public perception about EFW facilities

» Update on the latest technologies in the waste to energy space

» Generating community involvement in waste-based energy projects

» Examining the innovative uses of biogas for conversion into energy

» Learning how to produce liquid natural gas (LNG) from waste

» International perspectives on waste to energy projects

Hear from industry leaders and specialists including:

Bio-en Power Inc.
Covanta Energy
Canadian Energy-From-Waste Coalition (CEFWC)
Canada Composting Inc.
Citizens’ Network on Waste Management
Columbia University
Golder Associates Ltd.
Linde North America Inc.
Metro Vancouver
Metro Vancouver Waste Committee
Miller Thomson LLP
Ontario Power Authority
Pario Capital
RWDI
Ramboll, Denmark
Stantec
S4 Energy Solutions
The Regional Municipality of Durham
Waste Management Inc.
Wheelabrator Technologies Inc.

Plus!

Take advantage of detailed instruction in our hands-on workshop - Health Risk Assessment and Evaluation for Energy-From-Waste Projects on November 25th, 2009

see pg 5 for details

Sponsored by:

Register Now • 1-877-927-7936 • CanadianInstitute.com/wbe
Discover the Latest Developments in the Rapidly Growing EFW Industry

Recovering energy from waste provides a solution to the problem of increasing waste, as well as an opportunity for developers of alternative energy.

However, integrating this waste diversion method into the hierarchy of other options can be challenging. Whether you are developing an integrated waste management strategy, scanning through the best practices for energy recovery or navigating the regulatory approval process for your new facility, The Canadian Institute’s Waste-Based Energy conference is your opportunity to get the latest information about the waste-to-energy industry in Canada and abroad.

Attend this event and learn about all the key steps to ensure your EFW facility operates successfully. Be informed about the latest technologies, learn about the regulatory framework behind successfully implementing EFW projects and explore your financing options, including:

» Ways to interact with the public to ensure your proposed facility gains community acceptance
» Developing thorough risk assessments to mitigate potential health hazards associated with your EFW facility
» Building a solid business case for your EFW facility and negotiating contracts
» Discovering your financing options, including investment and revenue opportunities in this economic climate
» Learning about cutting-edge technologies that will help you cut costs and increase your bottom line
» Exploring international strategies on waste-based energy projects and ways to incorporate them into Canada

Connect with other like-minded individuals in the waste to energy space. Join your colleagues and competitors on November 23rd and 24th, 2009 at the Intercontinental Toronto Yorkville. Register today by calling 1-877-927-7936 or book online at www.CanadianInstitute.com/wbe.

Who You Will Meet

Directors of Public Works
Municipal/Commercial Waste Managers
Landfill Owners and Operators
EFW Technology Providers
Environmental Lawyers, Consultants and Engineers
Regional, Provincial and Federal Departments of Environment and Energy
Gasification Technology Companies
Regional Power Authorities
Chief Financial Officers of Energy Companies
Head of Infrastructure
Head of Planning and Strategy
Waste Policy Officers

Sponsorship & Exhibition Opportunities
Maximize your organization’s visibility in front of key decision-makers in your target market. For more information, contact Director Business Development, Daniel Gellman at 416-927-0718 ext. 389, toll-free 1-877-927-0718 ext. 389 or by email at d.gellman@CanadianInstitute.com

Register at 1-877-927-7936 or in Toronto 416-927-7936 or www.CanadianInstitute.com/wbe

Distinguished Faculty

Michael Cant
Associate, Senior Solid Waste Planner
Infrastructure Sector Leader, Golder Associates Ltd.

Ken Carrusca
Residuals Management Division Manager
Metro Vancouver

John Foden
Managing Director
Canadian Energy-From-Waste Coalition (CEFWC)

Marvin Hunt
Chair
Metro Vancouver Waste Management Committee

John Jackson
Coordinator
Citizens’ Network on Waste Management

Mirka Januszkiewicz
Director of Waste Management Services
The Regional Municipality of Durham

Mike Lepage
Principal, Certified Consulting Meteorologist
RWDI

John Lindemann
Senior Manager for Business Development
Wheelabrator Technologies

Jim McKay
Senior Associate, Practice Leader, Solid Waste Services, Stantec

Chuck Martin
President
Bio-en Power Inc.

Kevin Matthews
President
Canada Composting Inc.

Wes Muir
Director, Corporate Communications
Waste Management Inc.

Joey Neuhoff
Director of Business Development
Covanta Energy Corporation

Dr. Christopher Olsson
Principal and Environmental Health Scientist
Stantec

Guy Piazza
Managing Director
Pario Capital

Thomas Rand
Director of Waste-to-Energy Division
Ramboll, Denmark

Jeff Surma
CEO
S4 Energy Solutions LLC

Nickolas J. Themelis
Director, Earth Engineering Center
Earth and Environmental Engineering (Henry Krumb School of Mines)
Columbia University

John Tidball
Certified Specialist (Environmental Law)
Miller Thomson LLP

Darryl Yahoda
Manager, Generation Procurement
Ontario Power Authority

Confirmed Speaker
Linde North America Inc.
DAY 1: Monday, November 23, 2009

8:00 Registration and Coffee Served

9:00 Opening Remarks from the Conference Chair

John Willms
Partner, Certified Specialist (Environmental Law)
Wills & Shier Environmental Lawyers LLP

9:15 Critical Elements Involved in Planning an Energy From Waste (EFW) Facility

Jim McKay
Senior Associate, Practice Leader, Solid Waste Services
Stantec

- How to start establishing an EFW facility
- Where to start in establishing an EFW facility
- What are the critical elements involved in planning an EFW facility?
- Ensuring stakeholders understand the needs of the community: communications, consultation and community acceptance
- Identifying key concerns about EFW facilities and how they can be addressed
- How to site a facility and manage risk perception
- Lessons learned from the Durham/York experience in planning an EFW facility

10:00 Highlighting the Current Government Regulations Impacting EFW Projects

John Tidball
Certified Specialist (Environmental Law), Miller Thomson LLP

- Amendments to the Waste Diversion Act (WDA) 2002 and its effects on EFW initiatives
- Update on current regulations and guidelines under Ontario’s Environmental Assessment Act and Environmental Protection Act
- Understanding the potential effects of zero waste-based legislative reform on EFW initiatives
- Analyzing the Environmental Assessment Act and its effects on EFW facilities
- The impact of the Green Energy and Green Economy Act on EFW projects

10:45 Networking Coffee Break

11:00 Mitigating Negative Public Perception of EFW projects

Wes Muir
Director, Corporate Communications, Waste Management Inc.

John Lindemann
Senior Manager for Business Development
Wheelabrator Technologies Inc.

John Jackson
Coordinator, Citizens’ Network on Waste Management

One of the most crucial elements of a successful EFW project is acceptance by the public. Negative public perception is an underlying cause of concern for EFW companies. This session will help you gain buy-in from the local community.

- Examining the latest public opinion research and impact on EFW projects
- What are the concerns of citizen activists about EFW projects?
- How to generate greater public awareness and acceptance of EFW projects
- Assessing EFW projects in relation to other waste diversion options
- Ways to consider public concern about EFW projects and incorporate them into your business case
- What are public concerns about risk assessments and methods by which risks are communicated?
- Conducting thorough health risk assessments to address fears about potential health hazards

12:15 Networking Luncheon for Speakers and Delegates

13:00 Understanding the Cost-Benefit Analysis of the Durham-York Multi-Million Dollar Incinerator

Minka Januszkievicz
Director of Waste Management Services
The Regional Municipality of Durham

13:15 Understanding Ontario Power Authority’s View on Generating Electricity from Waste and the Financial Value of Corporate Sustainable Development

Darryl Yahoda
Manager, Generation Procurement, Ontario Power Authority

Register at 1-877-927-7936 or in Toronto 416-927-7936 or www.CanadianInstitute.com/wbe
### CASE STUDY

**Field:** The Metro Vancouver Experience to Date

**Chair:** Metro Vancouver Waste Management Committee

Montreal Vancouver is facing challenges in managing solid waste generated from a region with a population in excess of 2.2 million people. At a current recycling diversion (i.e., reduce, reuse, and recycling) rate of 55%, Metro Vancouver has proposed to increase its diversion rate to 70% by 2015. Nevertheless, capacity is still required to manage the residual waste, estimated to be nearly 1.5 million tonnes per year.

The work that has been carried out suggests that waste-to-energy is a preferred option to manage this residual solid waste. This includes:

- A review of eight region-specific solid waste scenarios in Metro Vancouver that was carried out by AECOM Canada;
- The direction of the European Union in prohibiting the disposal of untreated municipal solid waste to landfill; and
- Recent published work by the United States EPA suggesting that waste-to-energy is preferable to landfilling.

Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year.

Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year. Subject to its approval, Metro Vancouver will consider the development of an updated Solid Waste Management Plan with a greater emphasis on waste-to-energy later this year.

**Register at 1-877-927-7936 or in Toronto 416-927-7936 or www.CanadianInstitute.com/wbe**
Waste to Energy Projects - Impact on Air Quality and Analysis of Potential Health Hazards of EFW Emissions

Dr. Christopher Ollson
Principal and Environmental Health Scientist, Stantec

Mike Lepage
Principal, Certified Consulting Meteorologist, RWDI

Though an EFW facility may be desired in your overall solid waste plan one must address the potential health hazards of EFW air emissions prior to gaining regulatory approval. The key to ensuring regulatory acceptance for an EFW facility lies in ensuring that the chemical emissions from your facility will not endanger human or ecological health. In many cases considerable public outreach and risk communication will be required to educate the public how properly designed and maintained facilities would be unlikely to impact their health. Learn about regulatory and technical requirements pertaining to HRA’s – necessary to gain regulatory approval for running an EFW facility in Canada.

• Discussion of public concerns and perceptions of health risks related to EFW emissions
• Developing an appropriate risk assessment scope to meet regulatory requirements
• What chemical emissions need to be considered
• How to conduct thorough risk assessments
• Appropriate mitigation and monitoring that can be considered
• Brief overview of Reg. 419/05 air quality compliance requirements: estimating emissions; dispersion modeling and assessing against standards
• Reg. 419/05 versus precautionary approaches, cumulative effects, ecosystem approaches, the relationship between them, and the relevance for EFW facilities
• Assessing the human health risk assessment and relationship to Reg. 419/05: evaluating baseline conditions, cumulative effects and net effects; inhalation and other exposure pathways (deposition to soils/water/vegetation)
• Examining Reg. 419/05 standards versus health reference levels, and incremental risks
• Simplifying the analysis: screening out negligible contaminants and the relevance to EFW facilities

Chair’s Recap and Conference Adjourns

Sponsored by:

Willms & Shier Environmental Lawyers LLP is Canada’s leading environmental law firm, with five certified Environmental Law Specialists. Our practice includes environmental and energy approvals, Aboriginal consultation, environmental assessment, due diligence assessments, defence of prosecutions, environmental civil litigation, land use planning, and contaminated site clean-up, redevelopment and regulation. www.willmsshier.com

Enhance your meetings and add to your bottom line by offering audience response solutions from Turning Technologies Canada, the global leader in audience response technology. The first choice of presenters everywhere, our simple, intuitive, polling products add engagement, encourage interaction, collect valuable data and provide instant feedback in meetings and events using RF or web-based devices. Invest in workplace training and employee development with the press of a button. Visit us at www.turningtechnologies.ca

The Canadian Institute’s Green Initiatives: What are we doing to reduce the environmental impact of hosting conferences across Canada?

✓ We print all brochures with The Canadian Institute’s Environmentally Tri-Certified (FSC, PEFC, SFI) Print Partner
✓ We have reduced paper print and use by more than 25% over the past year
✓ We provide webcast options for individuals unable to travel to our events
✓ We encourage our delegates to recycle their conference badges

The Canadian Institute, in partnership with Zerofootprint, is pleased to announce a program that will allow attendees to contribute to the reduction of carbon emissions associated with our events. For only $5 you can offset your contribution and support tire recycling projects in Canada. For more information visit www.zerofootprint.net

Register at 1-877-927-7936 or in Toronto 416-927-7936 or www.canadianinstitute.com/wbe

Workshop Leader:

Dr. Christopher Ollson
Director – Environmental Health Sciences, Stantec

Critical to regulatory success in any jurisdiction is a thorough understanding of how chemical emissions from an EFW project have the potential to impact public and environmental health. Although EFW technology is emerging as an alternative for waste management in Canada, the general public often does not have a good understanding how new facilities, are operating in a safe manner around the world.

The need to demonstrate that chemical emissions from your proposed facility will not have an impact on human or ecological health has become integral to the Environmental Assessment process in Canada. The next step in the process is developing a cost-effective, yet scientifically defensible, environmental surveillance plan to be implemented upon commissioning the facility.

This session will focus on the regulatory and technical requirements for conducted health risk assessments in support of siting, gaining regulatory approval, and environmental surveillance for operating an EFW facility in Canada.

Attend this half-day workshop and learn:

• An overview of potential health risks and concerns related to EFW emissions
• Risk assessment fundamentals
• To make the linkages between air modeling and health risk assessment
• Importance of baseline data collection
• How to mitigate potential health risks
• Current developments in environmental surveillance of EFW facilities around the world
• Approaches to public and stakeholder consultation

Register early to reserve your spot!

Christopher Ollson, Ph.D. is Director of Environmental Health Sciences for Stantec. He is recognized by the Ontario Ministry of the Environment as a Qualified Person Health Risk Assessment and as a Qualified Toxicologist through the Air Standards Development Branch.

Throughout his career, Dr. Ollson has led numerous multidisciplinary environmental health assessments and facilitated community consultation and risk communication for both industry and government agencies across Canada and internationally.
The Canadian Institute presents

Waste-Based Energy

Capitalizing on Opportunities in Energy Recovery and Gas Capture from a Range of Industrial Waste

**Top Reasons to Attend**

- Learn about ways to secure funding for EFW facilities in a credit starved environment
- Network with top practitioners in the waste-to-energy space
- Hear from municipalities about their waste-to-energy initiatives
- Explore international perspectives on waste-based energy projects
- Maximize your company’s bottom line by implementing EFW projects

---

**5 EASY WAYS TO REGISTER**

1. **Online:**
   - Visit [CanadianInstitute.com/wbe](http://CanadianInstitute.com/wbe)
2. **Phone:**
   - 1-877-927-7936 or 416-927-7936
3. **Fax:**
   - 1-877-927-1563 or 416-927-1563
4. **Email:**
   - [CustomerService@CanadianInstitute.com](mailto:CustomerService@CanadianInstitute.com)
5. **Mail:**
   - The Canadian Institute
   - 1329 Bay Street
   - Toronto, Ontario M5R 2C4

---

**REGISTRATION FORM**

**CONFERENCE CODE:** 371V10-TOR

**YES! Please register the following delegate for Waste-Based Energy**

- **CONFERENCE ONLY**
  - **Register & Pay by October 26, 2009:** $1895 + 5% GST = $1989.75
  - **Register & Pay after October 26, 2009:** $2390 + 5% GST = $2509.50

- **CONFERENCE + Interactive Learning Session**
  - **Register & Pay by October 26, 2009:** $2390 + 5% GST = $2509.50
  - **Register & Pay after October 26, 2009:** $2895 + 5% GST = $3024.75

**Conference participants will receive a CD-ROM of the conference materials as part of their registration fee.**

- Please add a copy of the “Conference Proceedings (BINDER)” to my order for $195 + $21.95 (S&H) + (applicable taxes)
- I cannot attend but would like information regarding the live webcast of this event.
- I cannot attend but would like information regarding conference materials.
- Yes, I would like to reduce the environmental impact of my attendance by contributing $5.00 to support tire recycling projects in Canada.

**CONTACT DETAILS**

- **NAME**
- **POSITION**
- **ORGANIZATION**
- **ADDRESS**
  - **CITY**
  - **PROVINCE**
  - **POSTAL CODE**
- **TELEPHONE**
- **FAX**
- **EMAIL**
- **TYPE OF BUSINESS**
  - **NO. OF EMPLOYEES**
- **APPROVING MANAGER**
  - **POSITION**

**PAYMENT**

- Please charge my [ ] VISA [ ] MasterCard [ ] AMEX
- **NUMBER**
- **EXPIRY**

- [ ] Wire Transfer ($CAD)
  - Please quote the name of the attendee(s) and the conference code 371V10 as a reference.
  - Beneficiary: The Canadian Institute
  - Bank Name: HSBC / Account #: 362-055319-001
  - Address: 150 Bloor St. Suite M100, Toronto, ON
  - Swift Code: HKBCATT / Branch #: 10362

- [ ] I have enclosed my cheque for $ including GST made payable to The Canadian Institute (GST No. R1063651728)

---

**Attention Mailroom:** If undeliverable to addressee, please forward to:

Director of Waste Management, Director Waste-to-Energy, Manager Power Procurement