

Presented by *insIGHT*

# RENEWABLE ENERGY IN ONTARIO

Leadership Opportunities for a More Sustainable, Green Energy Economy

March 1 – 2, 2010 | St. Andrew's Club and Conference Centre | 150 King Street West, Toronto



Join us and hear about the latest opportunities, challenges and technologies surrounding Ontario's efforts to become a leader in renewable energy. Presentations will reflect perspectives from across the value chain, including input from key policy makers and regulators, distributors, project developers, community power leaders and generators.

**KEYNOTE – Kick the Fossil Fuel Habit, 10 Clean Technologies to Save Their World**



**Tom Rand, PhD**

*Lead Cleantech Advisor, MaRS Discovery District  
Venture Capitalist, VCI Green Funds  
Author, Kick the Fossil Fuel Habit, 10 Clean Technologies  
to Save Their World*

**PROGRAM CHAIR**

**Jose Etcheverry Ph.D.**

*Assistant Professor, Faculty of Environmental Studies  
York University*

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Bullfrog Power  
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Ontario Power Authority  
Ontario Sustainable Energy Association  
The Pembina Institute  
Toronto Hydro Corporation  
Town of Markham  
VCI Green Funds  
York University*

**WORKSHOPS – Wednesday, March 3, 2010**

**A – FIT Support Programs: Funding for Aboriginal, Municipal and Community Groups**

**B – Setting Up Community Energy Partnerships and Joint Ventures: Legal and Strategic Considerations**

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The energy sector in Ontario is undergoing tremendous change with the passing of the *Green Energy and Green Economy Act* (GEGEA) and, with it, come significant environmental and socio-economic opportunities, and challenges.

To meet infrastructure demands as we adapt to a more sustainable, green energy economy, the Ontario Government has earmarked a number of long term transmission projects in areas with significant potential for renewable power generation. In turn, local distribution companies (LDCs) are now obligated to connect distributed and renewable generation projects to the distribution grid, including two-way distribution for those customers who want to install solar panels on their roof or connect larger solar, wind and biofuel projects.

The Ontario Power Authority has also come out with one of the most aggressive new *Feed-In Tariff* programs for renewable energy in North America which will make investments in renewable energy and community power projects competitive with conventional long term investments. Accordingly, the Ontario Energy Board's mandate continues to grow to ensure the appropriate regulations are in place.

This **Insight Information** conference will offer a focused, practical and informative two-day program of thought-provoking panels and presentations, delivered by leading experts and decision makers in the field. Hear about the latest developments underway to transform Ontario's economy into a green economy and the economic growth and employment prospects that go hand in hand with these developments. For added value, you may wish to take advantage of the in-depth, interactive workshops that will help you successfully navigate new funding programs being offered by the Ontario Power Authority.

We look forward to seeing you March 1-2, 2010!

#### WHO SHOULD ATTEND

- Executives from:
  - Renewable Energy Technology Organizations (Solar, Wind, Hydropower, Biomass, Geothermal)
  - Independent Power Producers (IPP)
  - Utilities, Local Distribution and Power Transmission Companies
  - Community Power Groups
  - Municipalities, Aboriginal Communities, Co-operatives
- Regulators and Officials from Federal, Provincial and Municipal Governments
- Representatives of:
  - Energy and Environmental Associations
  - Financial Institutions, Venture Capitalists, Investment Firms, Analysts
  - Building Technologists and Urban Planners
  - Energy Advisors, Consultants and Academics
  - Energy and Environmental Lawyers, Engineers
  - Solution Providers

8:00 | 9:00

Registration and Coffee

9:05 | 9:20

Welcome and Opening Remarks from the Chair

**Jose Etcheverry Ph.D.**

Assistant Professor, Faculty of Environmental Studies  
York University

9:20 | 10:10

KEYNOTE

Kick the Fossil Fuel Habit, 10 Clean Technologies to Save Their World

**Tom Rand, PhD**

Lead Cleantech Advisor at the MaRS Institute  
Venture Capitalist - VCI Green Funds  
Author, *Kick the Fossil Fuel Habit, 10 Clean Technologies to Save Their World*

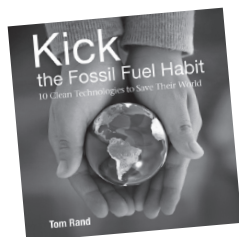
While it may be hard to see how the world might wean itself from our addiction to fossil fuels, Tom paints a credible picture of how we might do just that.

Speaking as an engineer, scientist and venture capitalist, Tom outlines in an easy-to-understand way how technologies like solar, wind, geothermal, tidal, and the smart grid work together to provide a foundation of a new energy paradigm. This is no naïve pie-in-sky analysis, however: the difficult problems of finance, policy and politics are also brought into play.

For each of the ten chosen clean technologies, Tom asks "What would a trillion dollars get us?" The answers might surprise you. Extending the standard description of clean technologies, each is pushed to see what sort of contribution it might (or might not) be capable of. *Kick the Fossil Fuel Habit* is hard-nosed, but hopeful. Just the sort of attitude we need to see.

10:10 | 10:30

Networking Coffee Break  
Book Signing with Tom Rand



10:30 | 11:15

The Evolution of Green Energy in Ontario

**Deborah Doncaster**

Executive Director  
Community Power Fund  
Chair, Green Energy Act Alliance

In 2008, a perfect convergence of seemingly unrelated events took place in Ontario, setting the table for green energy to take a dramatic leap forward within the province of Ontario:

In this presentation, Deborah Doncaster leads us through the exciting evolution of green energy and community power in Ontario, from the first community owned wind turbine developed over ten years ago, to the launch of the *Renewable Energy Standard Offer Program (RESOP)* in 2006, and the *Green Energy and Green Economy Act and Feed-In Tariff (FIT) Program* today.

11:15 | 12:00

SPECIAL PRESENTATION

The Role of the Ontario Energy Board:  
New Responsibilities Under the GEGEA for  
Renewable Energy

**Gordon Kaiser**

Vice Chair  
Ontario Energy Board

12:00 | 1:15

Networking Luncheon

1:15 | 2:00

Ontario's Electricity Distributors: Connecting  
Renewable Generation to Distribution Grids  
and Helping to Build the Sustainable Communities  
of Tomorrow

**John Loucks**

Chair  
Electricity Distributors Association  
Chief Operating Office  
Brantford Power

Under the *Green Energy and Green Economy Act (GEGEA)*, Ontario's local electricity distributors (LDCs) are now obligated to connect distributed and renewable generation projects to the distribution grid. The LDC role is a critical one – whether this means connecting a customer to the distribution grid who wants to install solar panels on their roof or connecting larger solar, wind and biofuel projects. The *GEGEA* also granted LDCs the power to directly own and operate a portfolio of renewable power generation options.

Find out how the sector is embracing the new opportunities and meeting the challenges of this critical new role and how developing renewable energy projects and bringing renewable generation on-line is part and parcel of building the sustainable communities of tomorrow.

2:00 | 2:45

CASE STUDY

### Strategies Being Undertaken by Toronto Hydro to Embrace Renewable Energy in Ontario

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**Anthony M. Haines**

*President and Chief Executive Officer  
Toronto Hydro Corporation*

Toronto Hydro installed the first commercial class urban wind turbine in North America in partnership with a citizens' community cooperative, and is investing in a 10 MW biogas cogeneration plant at the City's Ashbridges Bay wastewater treatment plant. Toronto Hydro also installed a 190 panel, 36 KW solar system at its Commissioners Street service centre.

Next on Toronto Hydro's horizon: leveraging their smart meter/time-of-use rate framework to bring the smart grid to life in Canada's largest urban centre.

This presentation will discuss these industry-leading initiatives, their strategy for new partnerships and the challenges they have overcome along the way.

2:45 | 3:00

### Networking Refreshment Break

3:00 | 3:45

### Local and International Road Maps to Prosperity: Developing Renewable Energy to its Full Potential

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**Dr. Jose Etcheverry**

*Professor, Faculty of Environmental Studies  
York University  
President  
Canadian Renewable Energy Alliance*

Locally, the implementation of the *Ontario Green Energy Act* and the new *Ontario Renewable Energy Feed-in Tariff Program* represent the most promising paradigm shift in energy security and climate mitigation policy in North America. Globally, the recent birth of the *International Renewable Energy Agency* aims at achieving a similar paradigm shift amongst the 137 nations that have become official members.

These two developments will be explored in detail with a particular focus on:

- Key challenges that Ontario still needs to address to become the leader of renewable energy in North America (e.g. CHP, domestic content, finance)
- The road ahead after the Copenhagen UNFCCC meetings
- Canada as the G8 leader, new opportunities for renewable energy?

3:45 | 4:30

RENEWABLE TECHNOLOGIES

### Innovation in Energy Markets, Systems and Technologies

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**Dan McGillivray, Ph.D.**

*Managing Director  
Ontario Centres of Excellence (OCE)  
Centre of Excellence for Energy*

Unlocking the full potential for renewable energy in Ontario, afforded by the *Green Energy Act* and the new *Feed-In Tariff Program*, requires three keys:

- Identifying and building on the Ontario "unfair advantage"
- Capitalizing on the innovative capacity of industry-academic partnerships in Ontario
- Fostering Ontario's next generation of innovators and entrepreneurs

Specifically, this presentation will illustrate how Ontario could become a global leader in developing renewable energy technologies, particularly in solar, hydrogen and wind.

4:30

### Conference Adjourns for the Day

TUESDAY | MARCH 2, 2010

9:00 | 9:15

### Opening Remarks from the Chair

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**Jose Etcheverry Ph.D.**

*Assistant Professor, Faculty of Environmental Studies  
York University*

9:15 | 10:00

### FITs and Renewable Energy in Ontario: A Six Month Check Up

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**Jim MacDougall, P.Eng.**

*Manager, Distributed Generation  
Electricity Resources  
Ontario Power Authority*

Ontario's new *Feed-In Tariff Program* is the most aggressive renewable energy policy in North America and will make investments in renewable energy and community power projects competitive with conventional long term investments. In this presentation you will get the latest update on FIT contracts, the mechanics of compensation and overall how well the program has been working and received to date.

10:00 | 10:15

### Networking Coffee Break

10:15 | 11:00

#### MUNICIPAL BEST PRACTICES PANEL

### Innovative Partnerships: Leadership in Sustainable Community Development

#### Paolo Baragetti

Manager, Energy Technology Development  
Enbridge Gas

#### Tom Heintzman

President  
Bullfrog Power

#### Erin Shapero

Councillor  
Town of Markham

For Municipalities, fostering innovative partnerships is key to achieving important objectives around climate change adaptation and mitigation, renewable energy generation, meeting local energy needs and ensuring energy security for generations to come. Strong leadership and collaboration is emerging as a positive way forward when it comes to encouraging renewable energy solutions and moving towards community sustainability.

This session will focus on the innovative partnership struck between the Town of Markham, Bullfrog Power, Enbridge Gas, Natural Resources Canada, and York University – formed to deliver as many as 500 Solar Thermal Hot Water heating systems within the Town of Markham by 2010. It will explore the power of partnerships, roles, policies and best practices being put in place at the municipal level facilitating the shift towards powering communities sustainably into the future and supporting local green job creation and the green economy.

11:00 | 12:00

### Strategies to Ensure Success: Developing Human Resources and Local Capacity in Ontario

#### Dr. Jose Etcheverry

Professor, Faculty of Environmental Studies  
York University  
President  
Canadian Renewable Energy Alliance

Achieving the goals of the *Green Energy Act* requires that Ontario develops a work force that is ready to design, implement and maintain renewable energy projects and also people that are well versed in developing strong policies and sophisticated financial arrangements. This presentation will provide an overview of existing initiatives and promising opportunities.

12:00 | 1:00

### Networking Luncheon

1:00 | 1:45

### Plugging Ontario into a Green Future: *Renewable is Doable*

#### Cherise Burda

Ontario Policy Director  
The Pembina Institute

Pembina Institute will provide a comparative cost study that looks at the costs associated with both replacing and refurbishing nuclear plants in Ontario and discuss opportunities for combining green energy into the mix – all with the goal to stimulate green investment and jobs and benefit communities throughout Ontario.

1:45 | 2:30

#### CASE STUDIES

### Community Power Partnerships: A Competitive Advantage

#### Kristopher Stevens

Executive Director  
Ontario Sustainable Energy Association

The passing of Ontario's *Green Energy Act* (GEA) has created an unprecedented opportunity for citizens, co-operatives, First Nations, municipalities, LDCs and other local institutions to invest in developing their indigenous renewable energy resources.

The GEA is proof that the Government of Ontario 'gets it'; a recognition that the best business practices are those that engage community stakeholders in a significant way. Those that go beyond mere citizen consultation and information towards forging equitable investment relationships with local stakeholders will enjoy greater social acceptance and support as competitive advantage.

2:30 | 2:45

### Networking Refreshment Break

2:45 | 4:30

### INVESTORS PANEL

### Emerging Financing Opportunities for Renewable Energy

The development of renewable energy projects requires a significant amount of capital. This session identifies what commercial lenders and equity investors require to provide debt and equity financing for the development of renewable energy projects and looks at alternative foreign investment opportunities and strategies.

Moderator:

**Michael D. Shadbolt**

Partner

*Macleod Dixon LLP*

**Michael Bernstein**

President

*Macquarie Capital Funds Canada Ltd.*

**Sasha Jacob**

President & CEO

*Jacob Securities Inc.*

**Tom Rand, PhD**

Lead Cleantech Advisor at the *MaRS Institute*

Venture Capitalist - *VCI Green Funds*

Author, *Kick the Fossil Fuel Habit, 10 Clean Technologies to Save Their World*

This session will also explore:

- Who are the lenders?
- Who is providing equity?
- What is the role of traditional banks vs. equity funds and venture capitalists?
- Are these financial lenders comfortable with these new technologies?
- Non-traditional players who are looking at opportunities in Ontario, where the new *Feed-In Tariff Program* makes many renewable-energy projects attractive

4:30

Conference Concludes

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April 24-25, 2010 – Vancouver

4th Annual

**CAP-AND-TRADE FORUM**

April 12-13, 2010 – Toronto

9th Annual

**ONTARIO POWER SUMMIT**

May 6-7, 2010 – Toronto

## WORKSHOP A | 9:00 A.M. to 12:00 NOON

### FIT Support Programs: Funding for Aboriginal, Municipal and Community Groups

#### Workshop Leaders:

**Barbara Ellard**, *Director, Policy & Analysis, Electricity Resources, Ontario Power Authority*

**Jennifer Tidmarsh**, *Manager of Funds, Policy Analysis, Electricity Resources, Ontario Power Authority*

Ontario is launching three new support programs to help communities, First Nations and Métis groups develop and own renewable energy facilities. These funds will help create a greener Ontario by boosting local involvement in renewable energy projects – whether they are wind, solar, biomass or hydroelectric ventures, among others.

In this workshop, you will:

- Learn about the types of funding and grants that will be provided through these programs
- Find out how the application and review process works
- Get direction on what 'next steps' to take to submit an application!

Join us March 3rd for this half day workshop and find out what necessary steps you need to take to receive funding for an Aboriginal or Community renewable energy project.

The following is a brief overview of programs to be discussed in detail:

- **The Aboriginal Energy Partnerships Program** seeks to maximize First Nations and Métis participation while helping to build the province's energy supply. The program will create an Aboriginal Renewable Energy Network to share knowledge and best practices. In addition, the program will provide funding for community energy plans and costs associated with project development.
- Through the **Community Energy Partnerships Program**, the province will provide funding support to community groups to assist them with the development costs associated with renewable energy projects. The program will be managed through the Ontario Power Authority, which will retain a third-party agent to operate and administer the program.
- Ontario is also making it easier for municipalities to bring green energy projects to their communities. Through the **Municipal Renewable Energy Program**, the province will reimburse municipalities for direct costs associated with hosting renewable energy projects.

12:00 | 1:00 LIGHT LUNCH WILL BE SERVED FOR DELEGATES ATTENDING BOTH WORKSHOPS

## WORKSHOP B | 1:00 P.M. to 4:00 P.M.

### Setting Up Community Energy Partnerships and Joint Ventures: Legal and Strategic Considerations

#### Workshop Leader:

**Sven Thorsten Hombach**, *Associate, Fraser Milner Casgrain*

Attend this workshop and benefit from an in-depth, practical and interactive session on this challenging and essential business law topic, led by experts in the field

Key areas of focus will include:

- Options: Which legal structures/vehicles to consider
- Pros and cons of each option – strategic considerations
- Essential legal considerations for each vehicle
- Common pitfalls and how to avoid them
- Five essential risk management considerations
- Key steps in the implementation process
- Land acquisition – it's about more than turbines and power panels
- Permitting and consultation – seeing through the maze

# RENEWABLE ENERGY IN ONTARIO

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March 1 – 2, 2010 | St. Andrew's Club and Conference Centre  
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WORKSHOPS | March 3, 2010

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Both Workshops \$1,095.00 + GST (\$54.75) = \$1,149.75

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