



# SmartFutures: Connecting Energy, Technology and Communities

## Preliminary Agenda

November 2 & 3, 2011

Ajax Convention Centre, 550 Beck Crescent, Ajax, Ontario

The Durham Strategic Energy Alliance is proud to introduce our 4th Annual Energy Conference; SmartFutures: Connecting Energy, Technology & Communities.

A successful energy ecosystem must consist of a truly integrated network of systems and capabilities. This year's conference will focus on the collaboration and intersection of three key segments of the smart energy market – energy, including renewable energy, energy storage and natural gas; technology or enabling applications, including integration and reliability issues; and communities; including case studies of community adoption of smart energy practices.

Building on the success of our 2010 conference, SmartFutures 2011 brings together professionals from various industries and disciplines. Topics covered will provide local examples of smart energy applications and projects underway, best practices from leading jurisdictions on the adoption of various technologies and discussions around the relationships and collaborative efforts that have enabled energy ecosystem successes around the world. This unique combination of experience, relationships and market focus make SmartFutures 2011 the perfect venue for established leaders and new market entrants alike to learn, communicate, and network on the brink of the smart energy future.

Raise your profile as a thought leader among this rapidly expanding community of practitioners and strategic leaders. We look forward to welcoming you to SmartFutures in November 2011.



# SmartFutures: Connecting Energy, Technology and Communities

## Preliminary Agenda



**November 2, 2011**

**11:00 am – 12:30 pm**      **Registration & Networking Reception**

**12:30 pm – 12:40 pm**      **Welcome Address & Opening Remarks – DSEA Chair, Michael Kobzar**

**12:30 pm – 1:15 pm**      **Lunch Served**

**1:15 pm – 1:45 pm**      **Introduction of Keynote Speaker by Martin Croteau, Executive Director, IDN  
Keynote Address: David Lindsay, Deputy Minister of Energy**

**1:45 pm – 2:00 pm**      **NETWORKING BREAK**

**2:00 pm – 3:00 pm**      **Student Competition Presentations – Jonathan Wheatle, DSEA**



# SmartFutures: Connecting Energy, Technology and Communities

## Preliminary Agenda



**November 2, 2011**

**3:00 pm – 5:00 pm**

**Technology & Manufacturing Marketplace  
Networking  
Wine and Hors D'oeuvres**

**Innovation Forum**

**SR&ED**

**R&D One  
Your Partner in Innovation  
The SR&ED Experts  
[www.rndone.ca](http://www.rndone.ca)**

**Intellectual  
Property Law**

**Bereskin & Parr  
Intellectual Property (IP) Law Firm  
[www.bereskinparr.com](http://www.bereskinparr.com)**

**5:00 pm**

**Day One Wrap Up Address – Martin Croteau, Executive Director, IDN**



# SmartFutures: Connecting Energy, Technology and Communities

## Preliminary Agenda



**November 3, 2011**

**8:00 am – 8:30 am**

**Day 2 Registration**

**8:00 am – 8:30 am**

**Breakfast Buffet Open  
Technology & Manufacturing Marketplace**

**8:30 am – 8:40 am**

**Opening Remarks – DSEA Chair, Michael Kobzar**

**8:40 am – 10:00 am**

### **Panel A: The Energy Eco-system: Lessons and Opportunities provided by Local Demonstration Projects**

Smart energy initiatives are broad and require collaboration from many active participants in a partner eco-system to achieve anticipated results. This panel will explore the broad opportunities and challenges of implementing a community-centric smart energy eco-system.; including enablement of distributed generation, electric vehicles and customer engagement. The key lessons and opportunities created by two local projects – DSEA led Electric Vehicle project and the Siemens led Durham SmartGrid Eco-system Project will anchor the discussions.

Carole Champion, Director of Industrial Engagement, Sector Lead for Energy and Environment, and Smart Grid Lead at the Ontario Centres of Excellence; Richard Wunderlich, Director, IT Solutions & Service, Siemens Canada; John Mcquilter, Director, Business Development, Smart Energy Instruments; Tim Brown, Chief Technology Strategist, Wire IE.



# SmartFutures: Connecting Energy, Technology and Communities Preliminary Agenda



## November 3, 2011 continued...

**10:00 am – 10:30 am**

**NETWORKING BREAK**

**Technology & Manufacturing Marketplace**

**10:30 am – 11:45 am**

**Panel B: Leveraging Technology –  
Addressing issues with innovation,  
integration, reliability & security**

Technology is evolving faster than standards are addressing their potential. Thought leaders are challenged with simultaneously innovating and yet maintaining an energy system that is reliable and secure. This panel will explore the potential solutions for a smart community in regards to energy management; the reality of the market, challenges of introducing new technologies and ways to mitigate any risk to the systems security and reliability.

Tom O'Dell, Whitby Hydro; David Rozin, Senior Account Manager, Royal Bank of Canada; Tim Gibson, Siemens Canada; Michael Angemeer, President & CEO, Veridian Corporation

**Panel C: Renewable Natural Gas and its role  
as an Integrated Community Energy Solution**

The future sustainability of our cities will depend in large part on how well we can create integrated systems including energy production and distribution, transportation and waste disposal to name a few. Renewable Natural Gas can be derived from residential and commercial organic waste in urban centres as well as from gasification of other biomass and used to power our electrical systems, our transportation systems and reduce waste disposal and greenhouse gas emissions. This panel will explore the role that renewable natural gas can play as an Integrated Community Energy Solution.

Bernie McIntyre, Manager, Community Transformation, Toronto and Region Conservation Authority (TRCA); Mary Ellen Richardson, President, Canadian District Energy Association; Derek Riley, President, Yield Energy Inc.



# SmartFutures: Connecting Energy, Technology and Communities

## Preliminary Agenda



**November 3, 2011 continued...**

**11:45 am – 12:00 pm      Networking Break**

**12:00 pm – 1:00 pm      Lunch Served**

**12:40 pm – 1:00 pm      Award Presentations (DSEA Awards/Student Competition Awards)**

**1:00 pm - 1:45 pm      Technology & Manufacturing Marketplace**

**1:50 pm – 3:00 pm**

### **Panel D: The Smart Community – community eco-systems.**

According to the National Roundtable on the Environment, 66% of the homes that are built today will still be standing in the year 2050. Given that energy costs are anticipated to increase over time, there are opportunities to make homes/communities more energy efficient. Representatives from Durham Region and CMHC will provide the lessons learned from recent home retrofitting projects ( Durham Region, Now House, REEP, Now House 5) then discuss the plans for future communities and where the opportunities exist.

Nadia Frantellizzi, Canada Mortgage and Housing Corporation; Jamie Shipley, Senior Advisor, Research and Technology Transfer, Canada Mortgage and Housing Corporation; Paul Dowsett, Architect, Sustainable.TO.

### **Panel E: Managing Grid Variability – Paradigm shift in how we respond to the variability from renewable energy and electric cars**

Smart Energy initiatives are changing focus with the advent of increasing levels of renewable distributed generation and electric vehicles. This panel will address new approaches that leverage the variability of renewable and electric vehicle charging, including an exploration of micro-grids and energy storage technology.

Carole Champion, Director of Industrial Engagement, Sector Lead for Energy and Environment, and Smart Grid Lead at the Ontario Centres of Excellence; Richard Wunderlich, Director, IT Solutions & Service, Siemens Canada; Malcolm Shemmans, Electrical Storage Scientist; Cam Carver, CEO, Temporal Power Limited; Joshua Wong, Director of Engineering, eCamion.



# SmartFutures: Connecting Energy, Technology and Communities Preliminary Agenda



## November 3, 2011 continued...

**3:00 pm – 3:15 pm      NETWORKING BREAK**

**3:15 pm – 3:45 pm      Closing Keynote Address  
Jon Norman, Director of Transmission & Distribution Policy, Ministry of Energy**

**3:45 pm – 5:00 pm**

**Innovation Forum**

<b>Strategic Marketing</b>	<b>Strategic Marketing One <a href="http://www.sredone.ca">www.sredone.ca</a></b>
<b>Audit, Tax and Advisory Services</b>	<b>KPMG Audit, Tax and Advisory Services <a href="http://www.kpmg.com">www.kpmg.com</a></b>

**Technology & Manufacturing Marketplace  
Networking  
Wine and Hors D'oeuvres**

**5:00 pm – 5:15 pm**

**Conference Wrap Up  
Exhibitor Passport Prize and Door Prize Presentations (iPad & Blackberry Playbook)**