



## SUSTAINABILITY AND THE SEMINAR SERIES Real Life Smart Grid

For The Latest Event Updates Check: [london.ieee.ca](http://london.ieee.ca)

**Date:** Monday, Mar 8th, 2010  
**Time:** **Change: 15 pm - 19 pm**  
National Research Council (NRC)  
**Location:** 800 Collip Circle  
London, ON, N6G 4X8  
**Room:** Will be posted at the Door  
**Cost:** **Free**



**RSVP Required:** [london.ieee.ca](http://london.ieee.ca)

### Introduction

**Maïke Luiken**, Ph.D., Chair, IEEE London Section,  
Dean, Sustainability, Business Development &  
Applied Research

### Keynote

## Real Life Smart Grid

### Keynote Speaker

**Doug Houseman**, VP of Technology and Innovations, EnerNex Corporation

### Q & A—General Discussion

**Beverages will be provided**

[www.enernex.com](http://www.enernex.com)

[london.ieee.ca](http://london.ieee.ca)

[www.bluewatersustainabilityinitiative.com](http://www.bluewatersustainabilityinitiative.com)

# SUSTAINABILITY AND THE SEMINAR SERIES

## Real Life Smart Grid

### Abstract

There is a lot of discussion and activity around the world on many topics relating to "Smart Grid". The popular press has certainly picked up on the topic, raising awareness of the topic, though sometimes overstating the work and sometimes completely missing the point - thus generating interest but also potentially misconceptions in the public in and about Smart Grid.

The session will look at

How we currently define Smart Grid and how that definition is evolving.

What are the drivers propelling the development and deployment of Smart Grids including PHEV, Renewables and other new applications

What will be the impact on Residential customers, business customers and manufacturers, as well as the utilities and their employees?

What is the current state of the art in Smart Grid by discussing the activities and Smart Grid projects currently under way or deployed around the world

Who is doing what

What are the technologies and processes deployed and/or under development

What is working and what is not in these projects?

What is the regulatory environment helping with and what are they hindering globally? Who is the most progressive in regulation, who is the most regressive? How do security and privacy play at a policy level?

If there are missing pieces to make Smart Grid work; and if yes, what are these technology and/or policy and/or regulation gaps

Some of the projects that will be discussed include initiatives by

Energy Australia,

China National Grid,

Electricité de France (EdF)

Light, Rio de Janeiro, Brazil, and

Several North American Projects

National Institute of Standards and Technology (NIST) Smart Grid Framework

North American Electric Reliability Corporation (NERC) Reliability Standards etc.

At the end of this session you should have a good understanding of the current state of the Smart Grid; benefits, issues, challenges ....

This will be a very interactive session where the you will get a chance to ask your questions.



# SUSTAINABILITY AND THE SEMINAR SERIES

## Real Life Smart Grid

### Bio

**Doug Houseman** has extensive experience in the energy and utility industry and has been involved in projects in more than 30 countries. He is routinely invited to speak at international events in the industry and has been widely quoted in a number of international publications. Doug was named part of the *World Generation Class of 2007*, one of 30 people in the global utility and energy industry so named. Doug was the lead investigator on one of the largest studies on the future of distribution companies over the last 5 years working with more than 100 utilities and 20 governments.

#### **Professional Highlights—Utility Industry**

- Member of the NIST/EPRI smart grid framework architecture team. Helped develop the NIST smart grid framework model.
- Designer of the second NIST workshop for Smart Grid.
- Facilitator of over 40 single utility smart grid road map sessions in 14 countries.
- Reviewed a number of ARRA submissions for various organizations and wrote sections of said submissions.
- Supported Software and Hardware selection for a major west coast utility for a smart meter/smart grid rollout.
- For a smart metering project involving more than 5 million electric and gas meters. The project also includes provision for more than 1 million home area networks with an average of 20 devices in each home.
- Member of the Open-Smart Grid working group with specific work in Utility-AMI, AMI-Sec, OpenHAN, and Enterprise-AMI. Working on the DR, Load Control and Security task forces.
- Member of IEEE PES with a lead role in the Intelligent Grid Coordinating Committee, Authorship in the Emerging Technologies White Paper, Authorship in 5 Wind working group papers on wind collector systems. Doug is part of the team authoring the Wind Collector System papers for the 2009 General Meeting for PES and the Chair of the Smart Grid Super Session. Chairman of Smart Metering Europe 2008 and 2009. Facilitator of Smart Grid-Africa 2008, Member of the US Department of Energy Smart Grid working group. Co-author of the EPRI Clean-Tech Dashboard.

