

## Call For Papers

### 2013 International Conference on Smart Energy Grid Engineering [SEGE'13] [to be confirmed as IEEE]

28-30 August, 2013, University of Ontario Institute of Technology (UOIT), Oshawa, Ontario, Canada

#### Organizing Team

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Kevin Whitehead, Whitby Hydro, Canada  
Richard Ford, Toronto Hydro, Canada

The Smart Energy Grids are energy networks that promise to enhance the operational efficiency of nationwide energy and power supply via distributed generation with bi-directional energy and electricity flow. This objective is achieved by allowing intelligent monitoring and control of different components within the distribution and transmission lines as well as other systems from utilities of natural gas, thermal, electricity, and water on one side to the end user on the other side, while maintain the energy and power quality, security, reliability and safety with minimum environmental impacts. Governments around the world are investing heavily in this technology to ensure optimum energy use and supply, enable better planning for outage responses and recovery, and facilitate the integration of heterogeneous technologies around the grid, such as renewable energy systems, electrical vehicle networks, and smart homes. Smart Energy Grids present enormous engineering challenges in the design and integration of energy and electrical grids with communication and network technologies, along with substantial questions around required security and privacy of different components within the grid. The SEGE'13 conference aims at providing an opportunity to discuss various engineering challenges of smart energy grid design and operation, by focusing on advanced methods and practices for designing different components and their integration within the grid, and to provide a forum for researchers from academia and professionals from industry, as well as government regulators, to tackle these challenges and to discuss and exchange knowledge and best practices about design and implementation of Smart Energy Grid.

Topics of interest include (but not limited to) the following:

- Grid infrastructures design, planning, operation and management
- Thermal networks, storage, import / export, control, optimization, and applications
- Hydrogen and natural gas networks, production and supply chain, integration
- Power generation systems design and applications
- Sensors, communications and network
- Grid modeling, simulation, and data management
- Energy efficiency, conservation, and savings
- Plug-in Hybrid Electric Vehicle (PHEV) systems, CNG Vehicles, clean transportation
- Grid protection, reliability, energy / power quality and maintenance
- Smart metering, measurement, instrumentation, and control
- Information, security and privacy
- Transmission & distribution lines, and infrastructures
- Renewable energy, wind, solar, fuel cells and distributed generation within microgrids
- Computational intelligence and optimization
- Smart homes, cities, communities
- Life cycle assessment, pricing, policies, and energy planning
- Standardization and interoperability
- Smart energy grid education

#### Important Dates

Abstract Submission: 1-Feb-2013  
First Notification: 1-Mar-2013  
Full Paper Submission: 1-Apr-2013  
Acceptance Notice: 1-May-2013  
Camera-Ready Due: 1-Jun-2013  
Conference dates: 28-30 August, 2013

The authors of approved abstracts will be invited to submit a full paper. All full papers will be peer reviewed. Accepted full papers will be published in conference proceedings and submitted to IEEE Xplore database.

#### Conference Web Site

<http://ewh.ieee.org/conf/sege/2013/>

#### Paper Submission

<http://www.easychair.org/conferences/?conf=sege13>

#### Contact Information

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