

GridSmartCity

renewing energy

Burlington Hydro's GridSmartCity™ Vision

On May 12, 2009 Minister of Energy and Infrastructure George Smitherman joined Burlington Mayor Cam Jackson and Burlington Hydro representatives at the inaugural partnership launch of Burlington Hydro's GridSmartCity™. GridSmartCity™ is a Burlington Hydro initiative to begin transforming today's electricity system into the smart grid of tomorrow.

GridSmartCity™ brings together a wide range of stakeholders from industry to government to work together to promote the growth of smart grids. The new program will showcase how smart grids integrate electricity production, and delivery and consumption to produce a more efficient, reliable and responsive system that is better for the environment.

GridSmartCity™ partners will collaborate on smart grid projects to illustrate new technologies. These projects will help to fuel the growth of innovative green industries. Smart grid technologies, combined with advanced communications and computer analytics will aid greater use of renewable 'Green Energy' sources from the sun, wind and earth.

"Smart grid development in Ontario will help build a greener electricity system by making it easier to integrate increasing amounts of renewable energy into the electricity grid and enabling new conservation technologies," said George Smitherman, Deputy Premier and Minister of Energy and Infrastructure. "With GridSmartCity™, Ontario has a model that will help our province reach its aspirations for a cleaner, greener energy supply while leading the cutting edge of the green economy."

The GridSmartCity™ initiative stems from discussions of senior members of Ontario's electricity industry, who are engaged in a collaborative effort to promote the development of a smart grid

in Ontario. The report of this group's work, *Enabling Tomorrow's Electricity System*, recommends that distribution utilities undertake demonstration projects on smart grid technologies. With GridSmartCity™, Burlington Hydro has accelerated this process by partnering with technology developers and other interested firms to combine all the major elements of a smart grid into an integrated suite of projects that will demonstrate the full capabilities of a smart grid.

"Energy, its availability, reliability, and price are key factors in attracting investment and building and retaining industry," said Burlington Mayor Cam Jackson. "Burlington Hydro's leadership role in the smart grid field, through the GridSmartCity™, represents an important economic advantage in today's competitive marketplace."

GridSmartCity™ will assist consumers in learning more about smart grids, time differentiated prices and in-home energy management tools. A better understanding of their energy use will help consumers manage their electricity costs more successfully.

The projects that make up GridSmartCity™ include:

- Making Smart Meters Work for Consumers
- Obtaining Energy from the Sun, Wind & Earth
- Enabling Distribution Automation
- Seeing into the Distribution Grid
- Incorporating Electric Vehicles
- Using Electricity Storage to Meet Peak Load
- Measuring Water & Electricity Together
- Developing Distributed Generation

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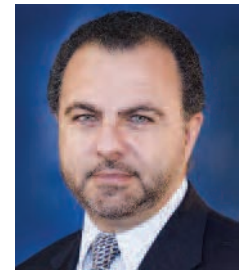
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A number of leading energy industry companies and corporate environmental leaders are among the first organizations to join the GridSmartCity™ Program including, S&C Electric Canada Ltd., Elster Canada, Union Gas LTD., Menova Energy Inc., RESCo Energy Inc., and Mountain Equipment Co-op. Burlington Hydro's work with S&C Electric is an example of how partnerships will deliver GridSmartCity™.

Burlington Hydro has been working with S&C Electric to deploy its IntelliTEAM II® Automatic Feeder Reconfiguration System. Currently, this system automates distribution switching and improves reliability to Joseph Brant Memorial Hospital, City Hall, the Canada Centre for Inland Water and the city's downtown. GridSmartCity™ will build on this partnership to expand the use of IntelliTEAM II® and employ new technologies to reduce the extent and duration of service interruptions and speed service restoration for customers throughout Burlington.

By integrating these projects into a single initiative, GridSmartCity™ provides an innovative vehicle to simultaneously explore all of the major smart grid elements and the interactions among them. This will allow Burlington Hydro to develop the detailed understanding of the smart grid in operation that is necessary for full smart grid roll out and to provide the best options for customers. While many of these projects will evolve over time, with GridSmartCity™, Burlington Hydro is leading the way toward building tomorrow's electricity system.

Burlington Hydro Inc., established in 1945 as the Burlington Public Utilities Commission, is an energy services based company in the power distribution business. The company serves over 54,500 residential customers, and approximately 5,500 commercial and industrial customers. ■



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