

Welcome to the August 2014 issue of the Langford newsletter bringing you news from the Ontario Electrical Industry and Product Updates.

Mark Your Calendar”

PowerLogic Users Conference (PLUG)
October 17, 2104
International Centre, Toronto

Ontario News

Fundamental Change - The OEB has invited input on what may be the most fundamental change in electricity rate design in more than a generation. Electricity distributors in Ontario will move to a system like basic telephone or cable services that rely primarily on monthly fixed charges to ensure that electric distributors have the revenue necessary to maintain their networks. See [APPrO](#)

First in Canada - NRStor is now certified to provide regulation services to the IESO market through the first grid-connected commercial flywheel in Canada. The Temporal Power Limited flywheel facility in Harriston, Ontario, will provide up to 2 MW of flexibility to the grid. See [IESO](#). In a connected story, the IESO has selected storage technologies from five companies that can offer ancillary services to support increased reliability and efficiency of the grid.

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IEI Stream 3 - A wider range of Ontario sectors are now eligible to apply for incentives under Stream 3 of the Industrial Electricity Incentive program from the OPA. It will see electricity costs reduced for eligible energy-intensive firms working in sectors like data processing, refrigerated warehousing and greenhousing. See [OPA](#)

Opting In -The Ontario government recently expanded the Industrial Conservation Initiative to include eligible customers with peak demand for electricity between 3 MW - 5 MW in a month. These customers - who must actively opt in - would be charged Global Adjustment based on their consumption during the top five peak demand hours each year. See [Ontario](#)

A Re-occurring Issue - The Municipality of Bluewater has filed an appeal of the Renewable Energy Approval of Grand Bend Power on the basis that the project has the potential to cause serious harm to human health and that the legislative scheme for granting wind farm approvals violated the Applicants Constitutional rights. See [Blackburn News](#)

RPSC - The OEB has initiated a process to establish the Regional Planning Standing Committee whose purpose will be to assume custodial accountability for the Regional

Product Spotlight! – The Next Level

An energy master plan (EMP) is a key element of planning that is often overlooked. It provides a holistic, comprehensive methodology of planning for a facility's current and future energy needs, instead of a one-off approach to fixing inefficient or broken systems.

Once data is accurately managed for a facility and the facility is operating at more efficient levels, an EMP then provides a path for taking the facility to the next level. That next level may involve installing more sophisticated utility-monitoring technologies (e.g., smart meters) to capture and monitor even more data. Or it could involve the evaluation and construction of a rightsized combined heat and power plant, instead of one that could have been oversized (and overpriced) based on previous inefficient operations. For full article see [FMLink](#)

Planning Process. See [OEB](#).

Gaming Behaviour - The OEB has issued its Report on possible gaming behaviour related to congestion management settlement credit payments by Greenfield Energy Centre. The Panel has concluded that GEC exploited market defects related to the CMSC regime in respect of the increase in its shut down offer price in the period from December 2010 to August 2011. See [OEB](#)

Sports Complex? -Toronto City councillors are voting on a motion to have the city manager prepare a detailed report about the services and costs involved to turn the Hearn Power Generating Station into a sports, cultural and mixed use/social enterprise public facility. See [CBC](#)

Schneider Electric Power COM'X 200

The Com'X 200 is an energy server that is optimized for energy operation. It collects & stores WAGES consumptions and environmental parameters such as temperatures, humidity, CO2 level, in a building. The data is periodically transmitted through a choice of three media: GPRS, WiFi or Ethernet, to the cloud (i.e. a hosted platform). It is a cost effective solution for pushing logged data to the cloud and allowing users to make informed energy usage

Did You Know... Under Attack

U.S. and European utilities are being targeted by highly sophisticated hackers, according to two new reports from cybersecurity firms Symantec and F-Secure. Known as "Dragonfly" or "Energetic Bear" by security groups, the hacks appear to be coming from Eastern Europe, according to Symantec, with other reports claiming they are coming from Russia. Symantec said that the attacks had all the "hallmarks of a state-sponsored operation" and "a high degree of technical capability." The attacks used three means to penetrate utility systems: emails embedded with malware; frequently clicked links that automatically download

decisions. Examples of its application include monitoring of bank branches, office blocks and supermarkets. See [Schneider](#)

GridSense Smart Grid Deployment

Close to half of all meters in North America are smart. As a result, we're seeing lots of conversations about 1) taking advantage of the data they provide and 2) "lighting up" the remainder of the grid that smart meters fail to illuminate. The possibility exists to triangulate data from smart meters, substations and distribution transformers. In this article from *Smart Grid News*, Brett Sargent of **GridSense** chimed in with his take on what will be the next big thing in the deployment of smart meters. It turns out we have to look no further than the end of our driveway. See [Smart Grid News](#).

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hidden malware; and software update downloads with malware attached.

Three industrial control systems were found to have been infiltrated in this way, according to an alert issued by the Department of Homeland Security.

See [Utility Dive](#)

In addition, nearly 70% of companies that are responsible for the world's power, water and other critical functions have reported at least one security breach that led to the loss of confidential information or disruption of operations in the past 12 months according to a new survey. See [Renew-Grid](#)

