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Know Your Power

Happy New Year! Welcome to the January 2016 issue of the Langford newsletter bringing you product updates and the latest in the Ontario Electrical Industry

What's On

EDIST 2016 Conference and Exhibition will be at the Toronto Hilton Suites Hotel in Markham from January 13 - 15. Come see us at Booth #6! See [Registration](#)

Mark Your Calendar! - The Schneider Electric Utility Meter Technician ION8650 two day training course will be held in Mississauga; **April 21-22**. The three day Power Monitoring Expert (PME) software training will be **April 26-28**. For details see below. To register see [Schneider](#)

Ontario News

New Legislation - On Dec. 1, Ontario passed *The Strengthening Consumer Protection and Electricity System Oversight Act, 2015* that will strengthen the OEB and improve its ability to ensure continuity of service. Changes include **banning door-to-door sales** for energy contracts. See [Ontario](#).

A Nuclear Future - Ontario has updated its contract with Bruce Power and will proceed

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Product Spotlight!... Configuring a Monitoring and Reporting System

At the PLUG 2015 Conference, Roman Bulla of Powercore Engineering spoke on the challenges of configuring a Monitoring

with the refurbishment of six nuclear units at the Tiverton-based nuclear generation station. See [Ontario](#) and [TheStar](#)

In a related story, the Darlington nuclear station has been granted a 10-year operating license valid from Jan. 1, 2016 until Nov. 30, 2025. See [DurhamRegion](#)

Mandatory Energy & Water Reporting - Proposed amendments to Ontario's Green Energy Act, tabled as part of Bill 135, signal the government's intention to mandate reporting of energy and water consumption in privately owned buildings. See [reminetwork](#)

Energy Storage - A first-of-its-kind system that uses the depths of Lake Ontario to boost Toronto's energy supply is being hailed as a major breakthrough in the area of energy storage. See [OCE](#)

In a related story, a University-led pilot project demonstrating the promise of pole-top energy storage was unveiled at Ryerson's Centre for Urban Energy. See [Ryerson](#).

Auction Complete - The IESO has announced the results of the December 2-3 Demand Response auction. See [IESO](#).

Low Applications - Fewer than seven per cent of the eligible low-income households have applied for the Ontario Electricity Support program designed to replace the Clean Energy Benefit that will disappear from residential bills on January 1. See [CBC](#)

Large Scale Flow Battery Storage - SunEdison has signed a 10-year agreement with the IESO to supply 5 megawatts—20 megawatt-hours of battery storage to the province. See [newswire](#)

Auditor General's Report - In early

and Reporting System. He started with a detailed analysis of an electricity bill and provided specific examples of demand control measures that had been implemented at multiple facilities and the measures used to reduce electricity costs through peak demand and energy consumption reduction.

Strategies to reduce peak demand included improving the power factor, implementing a peak demand control system, and enrolling in the Demand Reduction (DR3) program.

The reduction in energy consumption was achieved through increased efficiency, reduced losses, and the shifting of energy consumption.

The use of a Power Monitoring and Energy Management system provided feedback on demand control performance, allowed for remote system control and provided real-time and historical data to engineers, operators and facility managers. The energy use reports and logs provided cost-per-unit analysis, cost allocation, and utility billing verification.

For the full presentation see [Langford](#)

December the Auditor General released a report that says Ontarians paid billions of dollars extra for the Liberal's energy decisions. See [National Post](#) and [Gowlings](#)

The Year in Review

January - The IESO and OPA merge on January 1, Ontario's auditor general says smart grid deployment has realized few benefits, and the OPG receives a 10% rate increase.

February - ESA orders Sensus meters to be removed, Canada's LEED certified buildings hits 2000, and Horizon Utilities would like other Niagara utilities to join the fold.

March - Announcement of projects to connect north-western First Nations communities to the grid, NRU to be closed in 2018, and protesters appeal the overhaul of Darlington nuclear reactors.

April - Government announces Hydro One privatization, and the removal of the Debt Retirement Charge, and Hydro One's billing problems come to light.

May - *Striking the Right Balance* report is released with significant changes to recommendations for Hydro One, Kincardine's nuclear repository gets its first cross border heat, and residential electricity rates are re-structured.

June - Ombudsman accuses Hydro One of lying to Ministry of Energy, Grand Chief tries to solve Ring of Fire electricity problem, and a nine turbine wind farm gets shut down by Blanding's turtle.

July - A report recommends a ban on door-to-door sales of energy contracts, public oversight is removed from Hydro One sale,

Schneider Electric Power Monitoring Fundamentals

Schneider Electric is offering a three day course on April 26 - 28 for anyone who is currently or will be using PME Software.

The introductory course focuses on how to use a StruxureWare Power Monitoring Expert (PME) system effectively. After examining the key features of PME, students will use the software interfaces to monitor, control, analyze, and report on their electrical system. Students will configure realtime alarms and view historical events, logged data, and plot historical trends. Then, students will enable sag/swell detection and plot power quality data and waveforms. For the second half of the course, students will configure ION meters and incorporate them into their PME system.

See [Schneider](#)

and the Speaker rules there was no contempt of parliament by Hydro One.

August - Hydro One board is re-instated after stripping of power is deemed to violate securities laws, the Chamber of Commerce wants a curb on electricity prices, and a class action lawsuit is filed against Hydro One over improper billing.

September - Government ignores growing opposition to Hydro One sale, and the Horizon merger with PowerStream, Hydro One Brampton, and Enersource has its first open house.

October - Prospectus for the Hydro One sale is filed with OSC, Ontario and Quebec discuss electricity trading, and FIT prices are reduced.

November - The 15% Hydro One sale happens, the Government tables Bill 135, the first Demand Response auction is held, and the IESO proposes transitioning from microFIT to net metering.

December - Wasaga Beach joins the opposition to the nuclear repository, OPG requests a 10-13 year extension of Darlington license, and the merger of the four large utilities is approved by all shareholders.

Happy 2016!

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