



Welcome to the February 2016 issue of the Langford newsletter bringing you product updates and the latest in the Ontario Electricity Industry.

What's On

Mark Your Calendar! - The ION Meter Programming for Technicians class will be held in Mississauga; **April 21-22**. The three day Power Monitoring Expert (PME) software training will be **April 26-28**. To Register see [Schneider](#)

Ontario News

Taking Control - Queen's Park is set to fully take over all decision-making regarding the province's energy monopolies by solidifying its control over the Ontario Energy Board with the recent passing of Bill 112. See [The Star](#)

Nuclear Commitments - Ontario is moving forward with nuclear refurbishment at Darlington Generating Station and has approved OPG's plan to pursue continued operation of the Pickering Generating Station beyond 2020 up to 2024. See [Ontario](#) and the [Globe&Mail](#)

In a related story, environmentalists want the Ontario government to abandon plans for the \$13-billion Darlington refurbishment. See [CTV](#) and [NationalPost](#)

Giving Up - Hydro One is pulling the plug on 36,000 rural smart meters outside Perth in eastern Ontario after years of complaints. See [National Post](#)

From Pipelines to Power - U.S. President Barack Obama's Clean Power Plan is expected to triple the flow of Canadian electricity into Midwestern and northeastern border states. See [HamiltonNews](#)

National Framework - The Canada Green Building Council has released its report in support for the establishment of a national energy benchmarking, reporting and disclosure framework in Canada. See

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Product Spotlight!... Impact of Raising DC Temperature

Despite an ongoing industry effort to raise data centre operating temperatures, many data centre managers have been slow to follow this guidance and their caution could be well founded according to a new white paper published by Schneider Electric.

["The Unexpected Impact of Raising Data Center Temperatures"](#) describes in detail the mechanisms of a typical data centre and evaluates the trade-offs and consequences associated with particular cooling strategies. For example,

[CaGBC](#)

Reporting Violations - OPG was fined \$31,000 by the CNSC for failure to comply with the condition of its Pickering nuclear plant licence. Violations were related to how and when changes in their security system were reported to the CNSC. See [Durham](#)

Grid Management - Swiss manufacturer Leclanche to provide 13MW / 53MWh energy storage systems for a project covering six ancillary services agreements with the IESO. See [Renewables](#).

Behavioural Energy Efficiency - PowerStream and Collus PowerStream are bringing Ontario's first behavioural energy-efficiency program to the region as part of the Conservation First Framework. See [SmartShift](#)

Schneider Electric PM800 and EcoBlade

The **PM800 meters** series, add-on modules, and accessories will no longer be available as of September 30, 2016. Current users can transition to the PM5500 and PM8000 series as the updated replacements. Contact sales@langford-assoc.com

An interesting side note: Schneider Electric is promising a battery - the EcoBlade - at a lower cost than Tesla. See [Forbes](#).

Radian Research - Free Webinars

Radian is offering three free webinars in the coming months. All webinars begin at 2 pm ET. Register at [Radian](#)

- **February 23**, Building sites in WATT-net Express and syncing data to the RW-30 Three Phase Field Site Analyzer.
- **March 22** - Building reports in WATT-net basic and WATT-net Express.
- **April 26** - Meter testing with the RD-20 Energy Reference Standard and UTEC 430 Portable Meter Tester including the RC-111 Comparator.

Radian is also offering an **Electric Energy Metrology Workshop** on May 19-20 with a guest speaker discussing Harmonics and the Impact on Energy Measurement. See

raising the IT temperature set point allows the chillers to avail of economizer modes for a greater part of the year which produces immediate energy savings. However, these can be offset by the greater burden placed on other parts of the cooling infrastructure.

The notion that Free Cooling guarantees reduced energy consumption is overly simplistic thanks to the complex dynamics of a data centre. Running at higher temperatures can produce energy savings but often it does not. See [benzinga](#)

Did You Know... Multi-pronged Cyber Attack

Cybersecurity analysts believe the utility world has experienced its first successful malware attack. A report from Washington-based SANS ICS points to hackers remotely switching breakers to cut power creating the six-hour Ukraine power outage for around 80,000 customers of Prykarpattyaoblenergo utility on 23 December.

SANS ICS, an organisation that trains infrastructure operators on combating cyberattacks, estimates that hackers also installed malware to prevent technicians from detecting the attack.

The attackers also

[Radian](#).

targeted the utility's customer-service centre by flooding it with phone calls to prevent customers from alerting the utility that power was down. See [Metering.com](#)

On a lighter note, [Cyber Squirrel 1](#), provides a map of all known “cyber squirrel operations” that have disrupted the electricity grid since 1987.

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