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Know Your Power

Welcome to the March 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](#)

The Woodward Technology Seminars on **Distributed Power Generation and Compression** will be held May 5-6 in Toronto. Prof. Engineers can earn 6 Professional Development Points per day. For details and to register see [Woodward](#)

The **EDA Upper Canada District Metering Technologies Conference** will be held in Ottawa May 25 & 26 with Hydro Ottawa the host utility. Contact andywilson@hydroottawa.com for details or to register.

Ontario News

Decision Looms - The federal environment minister, Catherine McKenna, has a **March 1 deadline** to decide on a proposal to construct a permanent repository for nuclear waste beneath the Bruce Nuclear site, little more than a kilometre from Lake Huron. See [LondonFree](#)

\$222 Million - Hydro One Ltd, Ontario's largest electric utility said it will buy an electricity transmission business from Brookfield Infrastructure for \$222-million. Upon deal

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Product Spotlight!... Circuit Breaker Aging Module

At the PLUG Conference in late October Shawn Balding of Schneider Electric spoke on Understanding the Lifecycle of Circuit Breakers and what they can tell you about their current condition.

He first reviewed the main

completion, Hydro One will operate about 98 per cent of Ontario's transmission capacity. See [TheGlobeandMail](#)

Going Underground - ITC Holdings Corp's 1,000 MW, 73-mile transmission line under Lake Erie, would serve as the first link between Canada and the regional power grid spanning Pennsylvania, 12 surrounding states and Washington, D.C. It still has to pass the muster of state environmental regulators and the National Energy Board. See [PowerSource](#)

Meeting Expectations - The OEB has extended the Smart Metering Entity licence for only a single year and has set out requirements to achieve in its next application, including the collection of a broader range of electricity consumer consumption data and a means for the public to have greater access to this data. See [EnergyInsider](#)

Successful Pilot - PowerStream Inc. and Energate are launching a second expanded pilot, based on the success of their Advantage Power Pricing, which is a voluntary, dynamic pricing program for residential customers. See [Metering.com](#)

Stray Currents - The Christian Farmers Federation of Ontario is lending its voice to a growing call to action on the problem of stray current and its effect on livestock. See [BradfordExpositor](#)

Social Housing - The province has announced it will funnel \$92 million from the \$325 million Green Investment Fund toward cleantech retrofits for social housing buildings containing at least 150 units. See [CanMfg](#)

Energy Education - Ontario is investing \$1.35 million over the next three years to educate students on ways to conserve energy and help fight climate change through the [EcoSchools](#) program.

Schneider Electric ION 8650 and Recognition

The PowerLogic ION 8650 meter line, the next generation of advanced smart metering for electric utilities, offers an

elements of circuit breakers, their functions and the potential for failure, followed by a discussion on the different approaches to maintenance whether reactive, preventive, predictive or proactive, the pros and cons of each approach, and which situation that each approach suited best.

He then identified causes of accelerated aging and presented the Schneider Power Monitoring Expert Circuit Breaker Aging Module that can help operators identify and mitigate the effects of aging. (For circuit breakers, still working on humans)

For the comprehensive presentation see [Langford](#)

Did You Know... Fate of the CPP?

The death of U.S. Supreme Court Justice Antonin Scalia raises a number of questions regarding the future of the Clean Power Plan -- none of which have clear-cut answers.

Scalia's death came just after the 79-year old Republican sided with a 5-4 majority that issued a stay on the sweeping program, that would, if enacted, seek to reduce the United States' carbon emissions by more than 30% from 2005 levels by 2030.

The fate of the Clean Power Plan -- unveiled by President

industry leading ten year warranty. The ION 8650 is designed for highly accurate revenue metering and power quality monitoring applications for electric utilities. The patented ION technology provides flexibility and reliability and is backed by Schneider Electric's experienced and knowledgeable meter application engineering and support teams. See [Schneider](#).

Schneider Electric has been recognized as one of the 2016 Global 100 Most Sustainable Corporations in the World, coming 12th overall and first in its GICS Industry. See [TheStandard](#)

GridSense - Line Fault Sectionalizing Decisions

Traditionally, when a long line trips, the first thing to do at the control center is to open motor operated disconnect (MOD) switches to sectionalize the line and close back what you can safely. Since even small traditional substations are too expensive for only simple fault locating, the control center operator does not have the full picture; and as a consequence, the line may be incorrectly sectionalized leading to faulting the line again. For full article see [GridSense](#)

This monthly e-newsletter offers company news, application notes and product launches from Langford & Associates.

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Barack Obama in August -- could now lie in the hands of the U.S. Court of Appeals' District of Columbia Circuit, which seemed favorable to the CPP in January when it refused a request by 27 primarily Republican states to freeze implementation of the program.

Assuming the remaining justices were to maintain their current votes which are, at present, divided squarely by party lines, the resulting 4-4 stalemate would mean the Court of Appeals' ruling would stand and the plan would be approved. See [Hydro World](#) and [EnergyCentral](#)

