



Welcome to the December 2017 issue of the Langford newsletter bringing you product updates and the latest in the Ontario Electricity Industry.

## Ontario News

**Rising Rates** - In ten years, Ontario's electricity ratepayers can expect to pay an average of \$181 a month — \$54 more than the current provincial average. The projected rates were released as part of Ontario's long-term energy plan. See [CBC](#) For an overview of the plan see [Lexology](#)

**Many Road Maps** - Multiple groups across Ontario chose November as the month to release reports on their view of the best fix for Ontario's electricity system. [Ontario Electricity Stakeholders Alliance](#), [Ontario Society of Prof. Engineers](#), [Ontario Energy Association](#), [The Toronto Region Board of Trade](#), and [The Society of Energy Professionals](#)

**All Things Nuclear** - A Finance Accountability Office [report](#) says refurbishments are a good way to provide low-emission, low-cost electricity to Ontario. In a related story, a report from [World Nuclear News](#) outlines Ontario nuclear refurbishment benefits and risks. In another related story, OPG, in partnership with more than 30 organizations, is participating in a large-scale emergency preparedness exercise at Pickering Nuclear Generating Station. See [BusinessInsider](#) And finally, a large demonstration at Queen's Park called on Canadian government to phase out nuclear power and opt for renewable energy sources. See [TheStar](#)

**Grid-Balancing** - The IESO has announced two new energy storage facilities that have been selected to help support the province's electricity grid. See [IESO](#)

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## Product Spotlight! CDM Case Studies

Kia Barkhordari of Hydro One Networks spoke at the PLUG conference in October on the CDM programs available to customers to improve their energy efficiency. Part of the presentation included case studies on successful installations across Ontario.

The Municipality of Central Elgin replaced 11 year old blowers at their wastewater treatment facility and achieved \$56,850 of annual energy cost savings plus a incentive of \$47,373 from the Save on Energy Retrofit

**The Cost of Electricity** - Hydro One has asked for rate increases and pre-paid meters in their OEB application. See [CBC](#)

**Ban on Winter Disconnects** - The OEB has issued a Decision and Order that bans all winter disconnections between November 15 and April 30. See [OEB](#) and [Global](#)

**GridEx** - NERC held its fourth grid security exercise, GridEx, starting on November 15. More than 6,000 stakeholders from across North America took part in the exercise. See [NERC](#)

**Cost Outweighs Benefits** - Efforts to strengthen the electrical ties between Michigan's Upper Peninsula and the Lower Peninsula, as well as to Ontario, have suffered a setback after a state study revealed construction costs outweigh any benefit. See [EnergyInsider](#)

## Schneider Electric Power Quality Module and Video

At the PLUG Conference in October, Juan Camilo Arias from Schneider Electric discussed the power quality challenges facility managers face including the difficulties in correctly identifying the issue and communicating these issues to managers.

The Power Quality Performance Module has simple visual indicators to understand power quality impact on operations, can provide automated analysis of PQ events, and identify the disturbances affecting operations. See [Langford](#)

A six minute video on Schneider's Power Quality Correction can be seen at [Power Factor](#)

## Radian New WECO-300

Radian Research has released a new WECO-300 Desktop Meter Test Station, a compact portable desktop station that provides a safe environment to perform a wide range of functional meter tests.

Unlike other Desktop Meter Stations, the WECO-300 and RM-17 combination is not simply a verifier. The inherent

Program. The payback for the installation was two years.

Honda in Alliston invested in new energy efficiency air compressors, replaced roof top units, added VSD to ventilation fans, and installed LEDs in the parking lot for a total of 5,625 MWh of energy savings. They received \$588,050 total incentive from the Process and Systems Upgrade and Retrofit Programs. For full presentation see [Langford](#)

## Did You Know Energy Challenges of Marijuana

A major problem facing the cannabis industry right now is a lack of hard data regarding its energy use.

It's only in recent years that growers have been legal — before that, plants were either outdoors or owners were trying to hide their energy consumption. Today, legal growers are often forced indoors by local regulations. Derek Smith, executive director of Resource Innovation Institute, is trying to tackle the data issue.

The cannabis and conservation firm (possibly a first) has developed a Cannabis Power Score which attempts to give growers a rough idea of where their energy use stands and how efficient it is. But the real

Radian watt-hour standard allows for the meter's accuracy to be tested instead of merely verified. See [Radian](#).

purpose is data collection. See [Utility Dive](#)

**Mark Your Calendar!** Radian is holding its two-day Electric Energy Metrology Workshop on May 22-23. See [Radian](#)

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