

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

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Ontario News

Debt Retirement Charge - Ontario intends to take the Debt Retirement Charge off residential electricity bills after Dec. 31, 2015. The province is also working with the OEB to develop the new Ontario Electricity Support Program to help make electricity more affordable for low-income families. See [Ontario](#)

Selling Off Assets -Selling off some of Ontario's key hydro assets could easily raise \$10 billion for the province. But it wouldn't all be simple, warns Jan Carr, the first chief executive of the OPA. Ontario Finance Minister Charles Sousa avoided using the word "sell" when he announced that the province is looking at options for OPG and Hydro One. See [The Star](#).

Ministry Directives– Five directives were received from the Ministry of Energy by the OPA on the last day of March. Directives address Procuring Energy Storage, Combined Heat and Power, Large Renewable

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DCeP

Procurement Process, IESO Management of Demand Response, and the Conservation First Framework.

Two additional directives were added on April 24 dealing with transferring unallocated hydropower capacity from the HESOP to Large Renewable Projects and the design and implementation of a new Stream 3 of the Industrial Electricity Incentive. See [OPA](#)

Efficient Takeover - Bruce Power CEO Duncan Hawthorne told the Toronto Sun editorial board he's interested in taking over the Darlington and Pickering nuclear plants, which are currently operated by OPG. He stated that Ontario's entire nuclear fleet could be run more efficiently and effectively by one private operator. See [The Sun](#).

New Opportunities - OPG, through its subsidiary, Canadian Nuclear Partners, and Westinghouse Electric Company have announced an agreement that will enable the two companies to work together on a wide range of global nuclear projects. See [CNP](#)

New-build waterpower - The OPA has signed contracts for three new-build waterpower projects owned by Ontario municipalities through the municipal stream of the [Hydroelectric Standard Offer Program](#). The projects will be developed by Renfrew Power Generation in Horton Township, St. Catharines Hydro Generation Inc. and

Product Spotlight! - One Relay for All

The BE1-11 digital protection system is a powerful and intuitive product for many applications. Essentially, it is one relay for all applications. Since the hardware can change to any application in the field, after the learning curve on the first relay, operators are up to speed on all system relays. This also reduces the number of different relays in the system.

The BE1-11 includes full metering, extensive reporting, and preventative maintenance data. The software has checks and balances and visual logic with an Offline Simulator to eliminate settings errors.

The BE1-11 can be used for one function initially, with increased

Chaudière Hydro in Ottawa. See [OPA](#)

Ontario First- Ontario is the first jurisdiction in North America to fully eliminate coal as a source of electricity generation. The Thunder Bay Generating Station burned its last supply of coal as of April 15. See [Ontario](#)

Schneider Electric Power PM800

The PowerLogic Series 800 Power Meter offers high performance measurement capabilities in a compact unit. Operators can reduce energy costs by understanding where and how energy is being used. It can extend equipment life and avoid unnecessary equipment purchases by clarifying circuit loading and identifying spare capacity. Applications include panel instrumentation, sub-billing, cost allocation and utility bill verification, as well as remote monitoring of an electrical installation. For details see [Schneider](#)

GridSense Lean Grid Automation

Lean Grid Automation (LGA) is the next phase of smart grid deployments, focusing on bolstering, updating and enhancing the aging distribution infrastructure found globally. Facets of LGA include VVO, CVR, Distribution Automation, Power Quality, and Theft Detection to name a few. Utilities want to accomplish these with the lowest amount of

functionality added with operator comfort and available time. It integrates easily with other Basler Excitation and Regulation. See [Basler](#)

Did You Know... Data Centre Energy Productivity

A global taskforce on data center efficiency recently announced agreement on standard approaches and reporting conventions for data center energy productivity (DCeP), a critical concern for facility and energy managers. The latest recommendation from the taskforce is for data centers to define attributes and measure DCeP, an equation that quantifies useful work that a data center produces based on the amount of energy it consumes.

The DCeP concept allows each organization to define

investment and complexity. That is where GridSense shines, enabling LGA through intelligent sensing at the end of the grid network coupled with analytical software and diagnostic tools. See [GridSense](#)

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"useful work" as is applicable to its business, thus creating a custom and meaningful metric. For example, a retail business may use number of sales as the measure for useful work, while an online search company may use the number of searches completed. See [FMLink](#)