

Welcome to the January 2011 e-newsletter providing you with product updates and the latest news from Ontario's electricity sector.

---

In this issue...

[Ontario News](#)  
[Product Spotlight](#)  
[SneiderElectric](#)  
[Basler](#)  
[Did You Know...](#)

[Big Becky, CHP, and M&A](#)  
[The David Suzuki Public School](#)  
[Submetering and New Additions](#)  
[New BE1-11m Motor Protection](#)  
[The Year in Review](#)

[Ontario News](#)

**Rate Application** - On May 19, 2010 Hydro One filed an application for 2011 and 2012 transmission revenue requirement and rates. The revenue requirement and charge determinants approved for Hydro One in this proceeding would be combined with other licensed Ontario transmitters to determine the Uniform Transmission Rates (UTRs) for 2011 and 2012. Hydro One sought approval of a transmission revenue requirement of \$1,446 million for 2011 and \$1,547 million for 2012, and approval of changes to the provincial UTRs that are charged for electricity transmission, to be effective January 1, 2011 and January 1, 2012. The timing of the filing of the application was influenced by the receipt by the Company of a letter from the Minister of Energy. For details of the decision see [oeb.gov](#)

**CHP & CESOP** - The OPA has been directed to integrate 1,000 MW of CHP (Combined Heat and Power) projects into Ontario's electricity system, less what has been procured to date, which leaves approximately 500 MW for additional CHP projects. Specifically, the November 23, 2010, CHP directive indicates that the OPA is to individually negotiate CHP contracts for projects over 20 MW and to procure projects of 20 MW or under through a standard offer program that is limited to cost-effective projects located in areas of the province where they can be accommodated in the local distribution system and where there are local benefits. For full Update see [powerauthority](#)

**Managing Costs** - The OEB has initiated a consultation process to develop three key elements to a Renewed Regulatory Framework for Electricity. The OEB, together with consumers, transmitters, distributors and other stakeholders, must consider how to manage the pace of rate or bill increases for consumers that is associated with significant levels of investment in generation, transmission and distribution over the next few years. For details see [oeb.gov](#)

**Becky Breaks**- Big Becky, the machine boring a 10.3-kilometre tunnel at Niagara Falls has broken a part, and has been shut down for repairs, but the breakdown shouldn't further delay completion of the project, which is already four years behind schedule. OPG spokesman Ted Gruetzner said a crack was discovered in the beam that runs through the centre of the boring machine but that other maintenance work was being moved up to coincide with the emergency repairs. The tunnel has now progressed 9.1 kilometres and OPG hopes it will break through the final wall of rock above the falls in the first quarter of the new year. The project as a whole won't be finished until 2013, as the rough tunnel must be lined before it can be used. For full story see [electricityforum](#)

**M&A** - PricewaterhouseCoopers recently published a report entitled M&A (Mergers and Acquisitions) in the Canadian Renewable Energy Sector. The report notes that global M&A activity in the renewables sector could reach an all time high in 2010. There have been 321 renewable energy transactions announced in 2010 which PWC extrapolates to an annual run rate of 385 deals. While the global M&A activity may reach an all time high for this sector, the deal volume in Canada is low. Only 22% of the North America deal activity is attributable to Canadian targets. For full story see [gowlings.com](#)

**Moving the Smart Grid Forward** - The Canadian electricity sector, through the Canadian Electricity Association, released a State of Play paper on the way forward for the smart grid in Canada's electricity system. The paper discusses the key building blocks and functionalities of the smart grid, and cautions that a value-based approach to modernizing the electricity grid – one that sees vendors, policy-makers, regulators and utilities working together --

will ensure that the customer is able to recognize the full value of each installed component of the smart grid. For full report see [electricity.ca](http://electricity.ca)

**One Step Forward, Two Steps Back** - As the Ontario Liberals promote their 10-per-cent hydro bill rebate, an analyst calculates the discount will push household power consumption as much as 3 per cent higher. And that will offset nearly one-third of the Liberals' planned conservation target, says Bruce Sharp of Aegent Energy Advisors. Householders and small businesses will get a 10 per cent discount on their hydro bills for the next five years but in a newsletter to Aegent clients, Sharp says that economic theory predicts lower prices will lead to the increase in consumption. For full story see [electricityforum.com](http://electricityforum.com)

**2011** - Energy Columnist Tyler Hamilton of the Toronto Star looks ahead at what to watch for in 2011, including Plug-in vehicles, higher oil prices, smart homes, lower costs for solar panels and continued emphasis on energy efficiency.. See [thestar.com](http://thestar.com)

### Product Spotlight!... - David Suzuki Public School

The David Suzuki Public School built in Essex County is a testament to the power of LEED and the commitment of a community to create a demonstration site for green technologies. Giuliana Hinchliffe gave the attendees of the 2010 PowerLogic Users Group Conference a run through of this exceptional facility. For the 58,417 square foot facility, 55 out of 70 LEED points were targeted. Twenty-one of the 55 points were provided directly through Schneider Electric design and installations. All systems within the building including security and metering are provided by Schneider and were linked through ION enterprise to the BAS. Individual receptacles were monitored and students are able to see the real-time power consumption on a classroom by classroom basis. During the design process it was determined that every technology would be functional and that all technologies would be visible to provide on-going education to the students and staff. This included truth windows, exposed construction, structured display of exterior wall construction, windows into the mechanical spaces, and data points for all technologies. The incremental cost of the green technologies was \$1,750,000 which resulted in a 18-20 year payback. For full presentation see [langford-assoc.com](http://langford-assoc.com)

### Schneider Electric- Submetering and New Additions

Today's widespread interest in energy savings is driving numerous opportunities and benefits that building owners can take advantage of. Through energy submetering and monitoring solutions, Schneider Electric has helped clients realize energy cost savings of 25 percent and a net operating income increase of 5 percent. These savings enable a return on investment for the building owner while providing tenants with lower leasing rates and superior energy performance and sustainability results. To view article published in November by Paul Golden, National Business Development Manager for Energy Solutions and LEED Green Associate, see [sustainablefacility.com](http://sustainablefacility.com)

On November 30, Schneider Electric announced the addition of the PowerLogic PM1200 multifunction power meter and DM6200 digital panel meter to its portfolio of power management products. The PM1200 and DM6200 meters provide commercial, industrial and residential facilities with a simplified, low-cost metering solution. For details see [powerlogic](http://powerlogic)

### Basler - New BE1-11m Motor Protection

Basler recently introduced the new BE1-11m Motor Protection System. The relay was created from the need for a flexible, easy-to-configure, reliable protection system for medium to large motors. A number of our existing relay customers requested Basler Electric consider "adjusting" the firmware of our latest relay platform design to protect their large motors. Other customers suggested features, package requirements and offered application assistance. The newest development consists of a specific compliment of firmware modules that provide the capability and flexibility to meet the wide range of motor sizes and applications. The package design allows it to be installed in an existing panel. For further details see [basler.com](http://basler.com)

### Did you know...

**The Year in Review** - Please enjoy our month by month review of all things electrical in 2010.

**January** - AECL's commercial CANDU Reactor Division is put up for sale, new consumer protection rules are proposed, and the first 700 microFIT applications are approved.

**February** - BOMA doubles its non-lighting conservation incentive programs, the OEB finds Toronto Hydro has failed to comply with the Electricity Act with respect to a bulk meter installation, and a storage tank overflows at Darlington.

**March** - Ontario imposes restrictions on input tax credits for HST incurred on energy, OPG details its nuclear investment in the Durham region, and 200 workers at Bruce Power are potentially exposed to radiation.

**April** - Opposition accuses Harper government of trying to ram through sale of AECL, the first 510 projects by larger power generators received approval through Ontario's FIT program, and OPG explores Biomass.

**May** - Jim Prentice tells Canada's major electricity producers that they'll have to gradually retire their coal-fired plants, Ontario rivals P.E.I as province with highest electricity rates, and C.D.Howie institute calls the new renewable electricity 'fee' illegal.

**June** - National Strategy and Action Plan for Critical Infrastructure is announced, the FERC releases a series of decisions which fundamentally challenge NERC's mandate, and the first two larger-scale projects under Ontario's FIT program supply power to Ontario's electricity system.

**July** - The MEI has issues a directive to the OEB that certain distributor's licences will include required CDM targets, Ontario Regulation 66/10 establishes the 'special purposes' for which assessed amounts are collected from licensed distributors for expenditures made by the MEI conservation and renewable energy programs, and the OEB issues a report stating that certain costs to distributors associated from connecting renewable resources to the grid may be recovered from all ratepayers.

**August** - A report is released recommending embedding privacy directly within smart grid systems at the design and operational stages, the OPA proposes a new price category for the micro-FIT program, and the IESO starts a pilot project where large industrial consumers provide a grid-balancing service usually supplied by generators.

**September** - Partners of the Western Climate Initiative release a detailed plan for a regional cap-and-trade program, the Ontario Government proposes that Time-of-Use pricing be extended to large industrial consumers, and the OPA finalizes the price for the new microFIT ground-mounted solar price category.

**October** - The OEB issued the Conservation and Demand Management code for Distributors, the OEB issues a proposal to change the way global adjustment costs are recovered from electricity consumers, and Japan launches a World Trade Organization dispute against Canada.

**November** - The McGuinty government comes under fire for cancelling plans to build power plant in Oakville, the NERC issues a recommendation about gaps in critical infrastructure protection concerning large motors and generators connected to the bulk power system, and the OEB has launches three new policy initiatives to manage the pace of rate or bill increases for consumers.

**December** - The Ontario Government releases its Long-Term Energy Plan, the OEB sets the CDM targets for Distributors, and still no sale of AECL.

Have a great 2011.

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

[Send Feedback](#) | [Unsubscribe](#)

All brand and product names are trademarks of their respective companies or organizations.

Copyright 2010 Langford & Associates

All Rights Reserved