

In This Issue

- | | | |
|--|---|---|
| Putting power back into the community with Demand Response | Standard Offer Program | Competition anticipated in residential sub-metering |
| OEB Proposes Amendments to Metering, Connection and Settlement Requirements for Small Generators | OPA Consulting on Composition of 6300MW in CDM | Rodan Energy named MSP for Ontario Power Authority |
| Smart Meters enabled at the Transformer | OPA announces \$400M CDM fund for LDCs | Measurement Canada expected to extend meter seal period to 10 years |
| Integrated Power System Plan: Load Forecast | RFP issued for Meter Data Management & Repository | IESO aims to reduce barriers to wind generation |
| | OEB Rate Order provides relief for Embedded Customers | |

Putting power back into the community with Demand Response



Rodan Energy launched its York Region Demand Response program on August 16th with the theme "Putting Power Back in Your Community". Under contract with the Ontario Power Authority (OPA) Rodan Energy is engaging large energy consumers to participate in electricity demand response to enhance system reliability in a region that faces serious supply constraints.

Rodan Energy, in cooperation with all local electricity distributors in the affected area: Newmarket Hydro, PowerStream, Barrie Hydro and Hydro One, has developed a demand response program targeted at the commercial, industrial and institutional sectors. Participants receive a capacity payment for being available and an energy payment when called to curtail their electricity. Rodan Energy has secured the participation of some of the largest energy consumers in York Region and is actively encouraging the involvement of other electricity consumers.

For more information on our DR programs visit www.rodanenergy.com or email us at DR@rodanenergy.com

[Y Back to top](#)

OEB Proposes Amendments to Metering, Connection and Settlement Requirements for Small Generators

Sept. 26, 2006 - The Ontario Energy Board has proposed amendments to the Distribution System Code and the Retail Settlement Code (EB-2006-0226) that are intended to facilitate the connection of embedded generation facilities to distribution systems and address related settlement issues. The OEB anticipates that parties will benefit from the proposed amendments as they will facilitate the connection of embedded generation facilities to distribution systems. The proposed amendments will simplify the connection process for small and mid-sized embedded generation facilities (10 MW or less) by providing a standard form connection agreement, as well as allowing for less onerous metering requirements for all but the large (more than 10 MW) projects.

Metering
According to the proposed changes a four-quadrant interval meter may not be required for all embedded generation facilities. The OEB is now proposing that, for embedded generation facilities that have a gross name-plate capacity of 10 MW or less, the metering requirements be determined with regard to the fuel type and technology of the facility, and to what is reasonably required for settlement purposes.

Connection
The OEB is proposing a single standard form connection agreement applicable to small and mid-sized embedded generation facilities. The agreement is designed to be as simple as possible while ensuring that the key interests of distributors and generators are adequately protected in an appropriate manner. As contemplated in the Report, the standard form connection agreement contains a dispute resolution process in the form of binding arbitration.

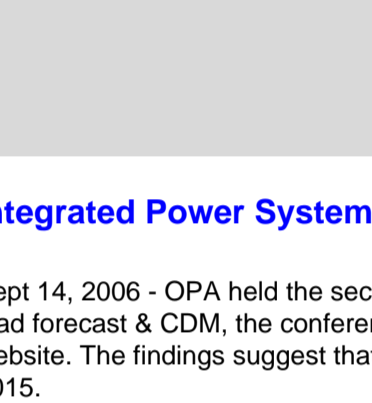
Information Disclosure by Distributors
Connections to a distribution system will be facilitated by requiring more information to be made available by distributors.

Settlement
All distributors will be required to settle with an embedded standard offer generator in accordance with the terms of the generator's contract with the OPA.

Invitation to comments
All interested parties are invited to make written submissions by October 11, 2006.

[Y Back to top](#)

Smart Meters enabled at the Transformer



Rodan's RTx Metering Solution enables any smart meter to work as a transformer-based smart metering device for both overhead and underground distribution applications. "By metering at the transformer you will gain the ability to monitor transformer performance and operational parameters, as well as the ability to pinpoint potential sources of power diversion" stated John Forsyth of Rodan. According to John, "many utilities are adopting a strategy of transformer metering to better manage their distribution system and to reduce losses associated with power diversion."

The RTx Metering Solution is easy to install, maintenance free and can integrate all smart metering systems including collectors/gateways and endpoint smart meters. This solution offers a flexible platform for all communication options and has advanced reporting capability for a number of critical parameters. The RTx can be easily modified to meet utility specific requirements. This platform can be easily adapted to meet size limitations, component requirements, metering equipment and is delivered pre-assembled for your convenience.

For more information call (905) 625-9900 or email us at sales@rodanenergy.com

[Y Back to top](#)

Integrated Power System Plan: Load Forecast

Sept 14, 2006 - OPA held the second in a series of conferences aimed at generating discussion and feedback for IPSP. Focusing on load forecast & CDM, the conference detailed the findings presented in the Discussion Paper 2: Load Forecast, available on the OPA website. The findings suggest that both a load and peak demand growth rate at approximately 1% a year between the years 2005 and 2015.

All sectors are predicted to experience load growth. The 0.8% increase expected in the residential sector is largely the result of both increased population and technology demand (e.g. computers and small appliances). Growth predicted in the commercial sector (1.2%) is dependent on the expected economic growth, with a decrease of 0.7% seen in electricity intensity due greater energy efficiency of new buildings. Energy consumption in the industrial sector is predicted to grow at an average rate of 1.6% per year, this growth seen in areas other than the primary sector. A regional overview of load forecast is expected by the end of October.

For more information visit <http://www.powerauthority.on.ca/>

[Y Back to top](#)

Standard Offer Program

Sept. 7, 2006 - OPA released a draft of its Standard Offer Program rules. This program is designed to encourage and promote increased use of renewable energy sources and remove barriers that have previously prevented small renewable energy projects from market participation. The OPA suggests this program will make a significant contribution toward achieving the Government's target of 2700 MW of electricity generated by renewable energy sources. OPA will pay a base rate of 11.0 cents per kWh for all renewable sources except photovoltaic solar systems, which are eligible for a base rate of 42.0 cents per kWh.

The draft stipulates that eligible projects must be located in Ontario; have an installed generating capacity of no more than 10MW; must be connected, either directly or indirectly to an OEB licensed distribution system; must have a connection voltage of no greater than 50 kV and must be metered as detailed within the Distribution System Code requirements at the expense of the Generator.

All interested stakeholders are asked to provide their comments by September 22, 2006. For more information visit <http://www.powerauthority.on.ca/>

[Y Back to top](#)

OPA Consulting on Composition of 6300MW in CDM

In June, the OPA set a target of 6300 MW of Conservation and Demand Management, increasing the present proportion CDM in Ontario's Power Supply almost ten times.

Ontario has set aggressive targets for reductions in peak electricity demand over the planning period: 1,350 MW by the end of 2007, an additional 1,350 MW by the end of 2010, and a further 3,600 MW between 2010 and 2025, for a total of 6,300 MW. The OPA has released "Discussion Paper #3: Conservation and Demand Management," the third of eight envisaged papers on the Integrated Power System Plan and will be consulting with industry stakeholders to develop a plan for achieving these targets, including delivery mechanisms. The OPA has categorized CDM under 5 categories: conservation, energy efficiency, demand management, fuel switching, self generation/cogeneration.

Rodan Energy is a stakeholder in these consultations and is a committed partner to Ontario's LDCs in the integration of Demand Response programs into the electricity supply mix.

[Y Back to top](#)

OPA announces \$400M CDM fund for LDCs

Based on a Directive issued by the Minister of Energy on July 13, 2006, the OPA is to "...assume responsibility for organizing the delivery and funding of CDM programs through LDC's in Ontario in accordance with the following guidelines"

- Principles
 - Assist in achieving government's CDM goals
 - LDC's to be key conservation delivery agents
 - Funding to be secure, stable and multi-year
 - OPA to manage overall design and M&V of results
 - OPA-LDC relationship to be managed contractually
- Funding
 - Up to a total of \$400 million over 3 years
 - Funding recovered through "global adjustment"
 - Excludes smart meters
 - OPA to support OEB in removing barriers (e.g. lost revenue).

The program design activities and draft contracts are to be completed by February, 2007 with funding to begin flowing October, 2007 through September, 2010. The OEB is prepared to consider interim funding prior to October 2007 on same terms as "3rd Tranche" funding.

[Y Back to top](#)

RFP issued for Meter Data Management & Repository

Sept 7, 2006 - IESO has issued an RFP to 9 organizations for the provisioning and operation of the meter data management and repository (MDM/R) as part of the Smart Meter Initiative. The role of the MDM/R is to provide a common infrastructure for receiving meter reads from all AMI (Advanced Metering Infrastructure) in Ontario, to process the reads to produce billing quality data (that is, data to support billing), to store and to manage data, and to provide access to such data to interested parties.

It is believed that a proposed regulation under Bill 21 (Energy Conservation Responsibility Act, 2006) will enable IESO to carry out various responsibilities associated with the conduct of the Government of Ontario's Smart Metering Initiative. Specifically, procurement activities for the provisioning of a MDM/R.

The key elements of the MDM/R include receiving and loading meter reads; validation, editing and maintenance of data; auditing of all changes to data and end-to-end traceability of data use within the system. Vendors pre-qualified for the design, delivery and integrated operation of MDM/R are asked to submit proposals to the IESO no later than October 5th 2006.

The IESO intends to procure a managed service for the operation and maintenance of the MDM/R and the business processes necessary to support it and to have these services in place before the summer of 2007.

For more information visit <http://www.smi-ieso.ca/>

[Y Back to top](#)

OEB Rate Order provides relief for Embedded Customers

The Ontario Energy Board Rate Order [EB-2005-0020/ EB-2005-0378] states: "for Embedded Direct and Embedded LDC customers that are supplied through Express feeders and are required to move the meter location from inside a TS to outside a TS or HVDS the applicable Supply Facility Loss Factor and the Distribution Loss Factor will be determined for such customers on the basis of an engineering study to arrive at a Site Specific Loss Adjustment for this circumstance, (SSLA), including radial line loss as appropriate, and this calculated value would replace the Average Total Loss Factor"

Rodan has worked with a number of facilities that qualify under this OEB decision to realize significant savings where the calculated line losses (SSLA) will be less than the Total Loss Factor of 3.4% uplift presently applied to the energy and demand billing for the facility.

To review the Rate Order visit: http://www.oebdocs.oeb.gov.on.ca/newpdf/rate_order_%20hydro_one_20060427.pdf

[Y Back to top](#)

Competition anticipated in residential sub-metering

The Ministry of Energy is preparing draft regulations under Bill 21 (Energy Conservation Responsibility Act, 2006) to facilitate individual metering of condominium units, through local distribution companies or third party companies, all of whom would be licensed by the Ontario Energy Board. Regulations are expected to be released in mid-October. Under these regulations, it is anticipated that organizations licensed to provide sub-metering services can be contracted by landlords to install, own and operating metering and billing systems for electricity consumption in multi-dwelling buildings.

It is estimated that there are roughly about 2.6 million rental apartment suites, condominium suites and social housing suites in Ontario. Of those 2.6 million suites, only about 15% of the suites actually receive a monthly electricity bill. There are 1.35 million renter households in Ontario, representing 32 per cent of all households in the province.

The recently passed Residential Tenancies Act, 2006 (RTA) allows landlords to install smart meters and require tenants to pay for their own electricity.

Rodan designs, installs and maintains a variety of multi-tenant metering systems, including equipment ownership, operation and billing.

[Y Back to top](#)

Rodan Energy named MSP for Ontario Power Authority

Rodan Energy has been contracted by the Ontario Power Authority as its Metering Service Provider across Ontario. Rodan is the sole MSP to the OPA and is responsible for the maintenance of metering and measurement systems of all RES generation facilities in the province. Currently there are 7 facilities that are in operating and another 11 facilities will be commercially operable in the very near future.

[Y Back to top](#)

Measurement Canada expected to extend meter seal period to 10 years

Since electricity utilities in Ontario will be replacing approximately 4.5 million electricity meters over the next few years as result of the Ontario Government Smart Meter Initiative, the existing 6 year seal period for most electronic meters in Canada (compared to the 12 year seal period for mechanical meters) creates a major concern for industry and for Measurement Canada (MC).

Measurement Canada is now considering the possibility of granting on a conditional basis, a 10-year initial re-verification period to all electronic electricity meters submitted for approval.

For more information: <http://strategis.ic.gc.ca/epic/internet/nmc-mc.nsf/en/lm04742e.htm>

[Y Back to top](#)

IESO aims to reduce barriers to wind generation

This September, the IESO created a wind integration working group to engage stakeholders and gather feedback to facilitate the integration of wind power in Ontario. The IESO's objective is to better understand and reduce the barriers wind power generation projects face in becoming operational in the Ontario market. Wind power generation holds great potential as part of the renewable energy sector in Ontario's supply mix. The OPA has awarded eleven wind power generation projects, representing 1200 MW of installed capacity. A primary issue in connecting to the IESO controlled grid remains the requirement that each facility must provide and maintain an energy forecast.

Rodan has provided engineering, regulatory, metering, protection and control support to most wind generators in Ontario. Rodan will be assisting its clients by participating as a stakeholder in this consultation process. All interested participants are requested to send an e-mail to: stakeholderengagement@ieso.ca by October 12, 2006. For more information visit <http://www.ieso.ca/moweb/news/newsItem.asp?newsItemId=3029>

[Y Back to top](#)

Power Management Report is a free publication offered by Rodan Energy and Metering Solutions Inc. and is intended to provide a brief overview of recent developments in the energy monitoring and management sectors. If you have colleagues who may wish to subscribe, please feel free to pass this e-mail along to them. They need only visit the subscription page on our website at: <http://www.rodanenergy.com/newsletter.htm> To unsubscribe please send an email to: info@rodanpower.com and indicate 'Unsubscribe' in the subject line.

For more information about Rodan Energy and Metering Solutions Inc. and the solutions we provide please visit: <http://www.rodanenergy.com/about/index.htm> or email sales@rodanpower.com