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REPORT

**Smart Metering Entity (SME)
Time-of-Use Mandate Progress Report
Through December 31, 2012**

Issue 17.0 - January 20, 2012

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1. Introduction

1.1 Purpose

The purpose of this report is to provide a monthly update to the Ontario Energy Board on the Smart Metering Entity's readiness and performance and the progress in respect to distributor integration with the Meter Data Management and Repository (MDM/R). This report includes information and status updates on:

- The Smart Metering Entity (SME) and the MDM/R Readiness - Any issues relevant to the ability of the SME and the MDM/R to support MDM/R enrolment and TOU implementation, such as resourcing, software operation, and processing performance.
- Distributor (LDC¹) Readiness – Integrating with the MDM/R is a prerequisite to enable LDCs to execute their individual TOU rollout strategies and contribute to Ontario's provincial targets for total customers on time-of-use (TOU) rates. This report includes information regarding LDC progress against their project plans, testing activities and MDM/R enrolment activities both achieved and projected.

1.2 How to Use this Document

This report presents information and status updates on SME and MDM/R readiness (in Section 2) and distributor readiness and MDM/R enrolment progress (in Section 3). This report focuses on updates through the end of the indicated month. However, in the area of MDM/R readiness (Section 2) important updates that occurred between the end of the reporting month and the date the report is submitted to the OEB will also be reported. More information about the provincial Smart Metering Initiative, the MDM/R and the implementation of Time-of-Use rates is available on the websites of the Ministry of Energy (<http://www.mei.gov.on.ca/>), the Ontario Energy Board (<http://www.oeb.gov.on.ca/OEB/Industry>) and the IESO/SME (<http://www.smi-ieso.ca/>).

SME and MDM/R readiness will include updates on implementation and testing for new MDM/R software, processing performance, status of resourcing and training programs, and any other issues that may affect the implementation of mandatory TOU.

Distributor readiness and MDM/R enrolment progress will be communicated using a series of tables, some summarizing aggregate results and others detailing by individual LDC. The tables provided in the report are:

- MDM/R Cutover Targets Outlook
- MDM/R Enrolled Meter Counts by Distributor
- Distributor Testing Activities with the MDM/R (Three Month Outlook)
- MDM/R Enrolment Wave Calendar (2011-2012)

¹ LDCs in Ontario (meaning each Local Distribution Company or “distributor” as defined in the Ontario Energy Board Act, 1998)

Each table is accompanied by a description of its contents and how to interpret it. The information contained in three of the tables is interrelated and these relationships are described below.

- The MDM/R Enrolment Wave Calendar contains detailed schedules for the planned enrolment testing and cutover to production that each LDC has provided to the SME. The Wave Calendar includes updates received from LDCs verbally and through project plan submissions. If an LDC's self-certification for enrolment testing has been accepted by the SME, this is also indicated on the MDM/R Enrolment Wave Calendar. Verbally provided milestone information, while shown in the calendar, is not included in any of the other tables. The information in the MDM/R Enrolment Wave Calendar can be further refined based on the SME's assessment of an organisation's readiness. The basis for such refinements can include our interactions with the LDC's project team, along with observed levels of testing activity in the MDM/R testing environments.
- MDM/R Cutover Targets uses the actual number of LDCs enrolled in the MDM/R production environment and the number of meters that they have each enrolled at the end of each month. It projects forward the number of LDCs that will be enrolled in subsequent time periods based on the MDM/R Enrolment Wave Calendar.
- The Distributor Testing Activities with the MDM/R (Three Month Outlook) projects those LDCs that will be in System Integration Testing, Qualification Testing and Cutover activities over the next three months from the MDM/R Enrolment Wave Calendar.

2. SME and MDM/R Readiness – Relevant Issues

2.1 MDM/R Operation and Software Testing

The Smart Metering Entity (SME) continues to effectively support distributor enrolment and the implementation of TOU billing under the Board's TOU mandate.

The MDM/R production environment continued to experience stable and reliable operation in December.

The IESO remains confident that with ongoing tuning and collaborative support of LDCs, the MDM/R will continue to offer a stable system and effectively support LDCs time-of-use implementation plans and ramp up of meters to full provincial volumes.

2.2 Processing Performance

At the end of December, the MDM/R was supporting 64 LDCs in production with a total of 4 million enrolled smart meters. The MDM/R processed an average of 3.2 million meter reads daily with a single day peak of 3.34 million meters reporting on December 20, 2011, the largest single day peak to date.

In December, the MDM/R processed 100% of meter reads, meter master updates and billing quantities. All processing was within contracted service levels except for two instances where meter reads processing and responses to billing quantity requests were delayed for a short period.

To help ensure reliable operation of the MDM/R, the SME is working with LDCs and our vendors to reduce impact on the MDM/R associated with poor quality data submissions from a few LDCs and their metering providers.

Note: LDCs continue to be asked to schedule their synchronization files in advance whenever they contain an initial ramp-up of more than 15,000 meters in order to avoid conflicting requests. This is necessary only for the initial ramp up of large numbers of smart meters and will not be needed once full production volumes have been reached.

2.3 Resourcing

The SME continues to make resources available to LDCs in support of their time-of-use implementation plans. There were no significant resource changes in December.

2.4 Training

The SME continues to adjust our training and workshop session offerings to meet the needs of the LDCs. Training sessions on the use of the MDM/R's graphical user interface (GUI) are conducted

both on-site at our facilities and at LDC facilities. For training details, please refer to the training page and workshop calendar for the first six months of 2012 on the SME website (<http://www.smi-ieso.ca/training>). With the majority of LDCs in MDM/R production, the demand for GUI training has diminished.

The Smart Metering Entity (SME) is actively engaged with the distributors to facilitate their enrolment process and to help them meet their mandated TOU dates.

With most of the remaining non-production distributors in various stages of preparations to integrate with the MDM/R we are confident that the SME can continue to provide support to LDCs in all stages of enrolment testing.

The projected activities for the next four months now include:

- Six distributors are scheduled to be involved in enrolment testing activities in January and one in February, and one in March
- Two distributors are scheduled to cut over to production in January, four in February, one in March.

2.5 Additional Risks and Issues

Measurement Canada (MC)

As previously reported, all the changes required to the MDM/R to support the province's Measurement Canada 2011 Solution have been received and have been under test for several months. These changes, delivered as part of a new version of the software (Release 7.2) were made available for LDC testing on July 12. This provides a viable platform against which LDCs can test the changes to their systems which support the MC 2011 solution and prepare themselves for its migration into production.

The SME continues to make progress in the remediation of issues for R7.2 to be considered production ready. The SME is in the process of testing corrections received and assessing the remaining identified issues. Once our analysis is sufficiently completed and scheduling details are available for the remediation of the remaining issues, the SME will be in a position to put forward a revised High Level R7.2 Target Deployment Schedule. We will provide an update to LDCs by the end of January 2012 on our progress to date and target production deployment date.

The SME requires LDCs to complete a certification process before transitioning to the new XML Billing Service Standard interface of the Measurement Canada 2011 solution. Many LDCs are in the process of conducting their R7.2 certification testing as per the SME's requirements. The SME is doing a detailed review of the remaining open issues to see if they will impact the results of the R7.2 certification testing. Based the SME's assessment to date it is expected there will be little or no impact to R7.2 certification testing; hence, the testing currently underway should proceed as scheduled because the results are expected to remain valid. When the detailed review is completed, we will communicate the final findings to all the LDCs.

Several LDCs, yet to complete MDM/R enrolment testing and cutover to production, have been timing their efforts around the mid January R7.2 target deployment date. While this delay will undoubtedly impact those plans, the SME has offered a contingency plan that would allow these LDCs to conduct enrolment testing under R7.2 but cutover to the production system under R7.0. Without the availability of the new XML Billing Quantity Interface in production most of these LDCs will not be able to bill their customers on TOU rates; however, all the system functionality, reporting and business processes around meter read data and synchronization can be fully exercised under R7.0. Taking advantage of this early opportunity should shorten the time needed by these LDCs to begin

billing customers once R7.2 is promoted to production. To date, two LDCs have committed to this contingency plan, while four others are giving it serious consideration.

The SME continues to work closely with the LDCs as the solution rolls out and they prepare their systems. Workshops, drop-in sessions, and webinars have been delivered to support the LDCs preparations for Release 7.2 and Measurement Canada 2011 solution. Please refer to the SME website (<http://smi-ieso.ca/>) for materials related to the promotion of Release 7.2 and the Measurement Canada 2011 Solution.

Development of additional MDM/R functionality to further fulfill Measurement Canada's requirements (known as the "Measurement Canada 2012 Solution") is underway, with elements of this solution targeted for delivery in 2012. Implementation dates are still to be scheduled.

Distributor Readiness – MDM/R Integration and Meter Enrolment

3.1 December Highlights

By the end of December there were 64 LDCs in production with four million meters enrolled in the MDM/R.

Enrolment activities in December included:

- **Cutover:** 0 LDCs
- **Enrolment Testing in Progress:** Bluewater Power, Cambridge and North Dumfries Hydro, Canadian Niagara Power, Greater Sudbury Hydro, Grimsby Power and Westario Power
- **Unit Testing:** Festival and Peterborough Distribution were engaged in various stages of Unit testing.

Note: By the end of December, there were two LDCs that had not connected to and started testing with the MDM/R.

3.2 MDM/R Cutover Targets

The MDM/R Cutover Targets table provides both actual and projected numbers of LDCs that have been or are to be cutover to MDM/R production operations in each calendar quarter. Monthly breakdowns are provided for the current quarter only.

For information on which specific LDCs are included in the *Production LDCs* column for each time period refer to the MDM/R Enrolment Wave Calendar.

The *RPP Eligible Customers* column contains the aggregate total for all the LDCs included in the *Production LDCs* column. LDC filings with the OEB include their total RPP eligible customers and these figures form the basis for the aggregated figures reported in this table.

The *Enrolled in MDMR* column contains the aggregate total number of smart meters for those LDCs that are included in the Production LDCs column. It is included in this table to track the ramp-up of enrolled meters after the LDCs complete their cutover to MDM/R production operations. The source of these figures is the LDC filings with the OEB.

The number of meters enrolled in the MDM/R for Niagara Peninsula was not available from the OEB filings and therefore the source used for these numbers in this report is the MDM/R. The % complete figure at the bottom of the table indicates the percentage of the total RPP eligible customers enrolled in the MDM/R as of the reporting date.

As of December 31, 2011	MDM/R Cutover Targets		
	Production LDCs	RPP Eligible Customers	Enrolled in MDMR
Actuals - Based on Production LDCs data			
Pre- Q2 2010	9	2,960,402	2,737,496
Q3 2010	2	156,858	156,799
Q4 2010	4	120,918	119,996
Q1 2011	13	282,274	282,828
Q2 2011	15	293,588	291,118
Q3 2011	16	567,626	404,251
Q4 2011			
October 2011	5	38,951	37,810
November 2011	-	-	-
December 2011	-	-	-
Actual Totals for LDCs in Production	64	4,420,617	4,030,298
Projected - Based on enrolment plans submitted to the SME			
Q4 2011	0	0	
2012	8	246,963	
Projected Totals for Committed LDCs	8	246,963	
Totals (Actual and Projected)	72	4,667,580	4,030,298
Not Committed - LDCs have not provided enrolment plans			
Schedules not yet determined	2	95,437	
Totals including non-committed LDCs	74	4,763,017	4,030,298
% Complete of total RPP Eligible Customers Enrolled in the MDM/R		84.6%	
<p>Notes: (1) "RPP Eligible Customers" are the total customers reported to the OEB that will ultimately be put on TOU rates and whose smart meters will be enrolled in the MDM/R.</p> <p>(2) "Enrolled in MDMR" represents the number of "RPP Eligible Customers" whose smart meters are currently enrolled in the MDM/R.</p>			

3.3 MDM/R Enrolled Meter Counts by Distributor

The MDM/R Enrolled Meter Counts by Distributor table shows each MDM/R production LDC's progress in enrolling smart meters over the previous month. The total meters enrolled in the previous and the current reporting months are provided, along with the net increase or decrease over the period. Note that in some cases there may be a small decrease in the number of meters enrolled from month to month. This reflects the routine day to day activities within an LDC's operation that involve the removals and deactivations of meters.

The source of the data in the *Total Meters Enrolled* and the *Total RPP Eligible Customers* columns come from data filed by the LDCs with the OEB. The number of meters enrolled in the MDM/R for Niagara Peninsula was not available from the OEB filings and therefore the source used for these numbers in this report is the MDM/R. The *% Complete* column indicates what percentages of the Total RPP Eligible Customers are enrolled in MDM/R production as of the end of the reporting period.

As of December 31, 2011	MDM/R Enrolled Meter Counts by Distributor				
Distributor	Total Meters Enrolled through 30-Nov	Total Meters Enrolled through 31-Dec	Increased Meter Enrolment this Month	Total RPP Eligible Customers	% Complete for Production LDCs
Atikokan Hydro	1,686	1,686	0	1,686	100.0%
Brant County Power	9,517	9,522	5	9,546	99.7%
Brantford Power	37,393	37,449	56	37,597	99.6%
Burlington Hydro	63,778	63,859	81	63,859	100.0%
Centre Wellington	6,420	6,425	5	6,425	100.0%
Chapleau	1,272	1,272	0	1,274	99.8%
Chatham-Kent	31,772	31,774	2	31,774	100.0%
COLLUS Power	15,695	15,703	8	15,707	100.0%
E.L.K. Energy	10,708	10,708	0	10,802	99.1%
Embrun	1,942	1,942	0	1,942	100.0%
Enersource	21,803	30,151	8,348	190,962	15.8%
Erie Thames	17,807	17,861	54	17,886	99.9%
Espanola	3,286	3,287	1	3,288	100.0%
Essex Power	27,817	27,857	40	27,922	99.8%
Fort Frances	3,732	3,732	0	3,732	100.0%
Guelph Hydro	47,935	48,068	133	48,044	100.0%
Haldimand County	20,899	20,906	7	20,911	100.0%
Halton Hills	20,643	20,643	0	20,643	100.0%
Hearst Power	2,690	2,690	0	2,504	107.4%
Horizon Utilities	228,832	229,243	411	233,149	98.3%
Hydro 2000	1,188	1,192	4	1,197	99.6%
Hydro Hawkesbury	5,350	5,350	0	5,350	100.0%
Hydro One	1,082,301	1,082,301	0	1,198,392	90.3%
Hydro One Brampton	135,912	136,156	244	136,215	100.0%
Hydro Ottawa	291,775	292,866	1,091	301,790	97.0%
Innisfil Hydro	14,619	14,632	13	14,751	99.2%

As of December 31, 2011	MDM/R Enrolled Meter Counts by Distributor				
Distributor	Total Meters Enrolled through 30-Nov	Total Meters Enrolled through 31-Dec	Increased Meter Enrolment this Month	Total RPP Eligible Customers	% Complete for Production LDCs
Kenora Hydro	5,502	5,508	6	5,508	100.0%
Kingston Hydro	26,353	26,365	12	26,512	99.4%
Kitchener-Wilmot	86,873	86,991	118	87,000	100.0%
Lakefront Utilities	9,535	9,537	2	9,537	100.0%
Lakeland Power	9,563	9,574	11	9,497	100.8%
London Hydro	138,768	139,158	390	140,499	99.0%
Middlesex Power	7,918	7,924	6	7,924	100.0%
Midland Power	6,833	6,833	0	6,833	100.0%
Milton Hydro	28,612	28,701	89	28,701	100.0%
NewmarketTay	32,639	32,782	143	32,929	99.6%
Niagara Peninsula	47,786	48,151	365	49,790	96.7%
Niagara-on-the-Lake	7,897	7,913	16	7,919	99.9%
Norfolk Power	17,864	17,914	50	18,838	95.1%
North Bay Hydro	22,484	22,476	-8	23,612	95.2%
Northern Ontario Wi	5,815	5,858	43	6,037	97.0%
Oakville Hydro	64,673	63,734	-939	62,719	101.6%
Orangeville Hydro	11,093	11,105	12	11,106	100.0%
Orillia Power	12,793	12,814	21	12,885	99.4%
Oshawa PUC	52,126	52,200	74	52,657	99.1%
Ottawa River	10,263	10,284	21	10,399	98.9%
Parry Sound	3,333	3,333	0	3,333	100.0%
PowerStream	314,968	315,378	410	317,948	99.2%
PUC Distribution	32,634	32,632	-2	32,622	100.0%
Renfrew Hydro	3,872	3,872	0	3,872	100.0%
Rideau St. Lawrence	5,775	5,775	0	5,775	100.0%
Sioux Lookout	2,689	2,706	17	2,706	100.0%
St. Thomas	16,269	16,281	12	16,281	100.0%
Thunder Bay	49,440	49,485	45	49,234	100.5%
Tillsonburg	6,336	6,339	3	6,669	95.1%
Toronto Hydro	612,241	612,241	0	702,999	87.1%
Veridian	111,968	112,210	242	112,720	99.5%
Wasaga	12,244	12,263	19	12,266	100.0%
Waterloo North	51,844	51,883	39	52,095	99.6%
Welland Hydro.	21,865	21,956	91	21,592	101.7%
Wellington North	3,594	3,598	4	3,599	100.0%
West Coast Huron	3,628	3,647	19	3,647	100.0%
Whitby Hydro	38,349	38,532	183	40,051	96.2%
Woodstock Hydro	15,028	15,070	42	14,958	100.7%
Total Meter Counts	4,018,239	4,030,298	12,059	4,420,617	91.2%

3.4 Distributor Testing Activities with the MDM/R (Three Month Outlook)

The System Integration Testing, Qualification Testing and Cutover timelines provided in this table are sourced from the details in the Enrolment Wave Calendar. Unit testing timelines are provided by each LDC in their MDM/R project plan. Those LDC's names that appear in black are entering unit testing for the first time in the indicated month.

As of December 31, 2011	<i>Distributor Testing Activities with the MDM/R (Three Month Outlook)</i>		
	Jan-12	Feb-12	Mar-12
In Unit Testing	Peterborough	Peterborough	
In Enrolment Testing - SIT	Festival Hydro		Peterborough
In Enrolment Testing - QT	Cambridge CNPI - EOP CNPI - Fort Erie CNPI - Port Colborne Hydro Grimsby Power Westario Power	Festival Hydro	Peterborough
Cutover	Bluewater Greater Sudbury	Cambridge CNPI - EOP CNPI - Fort Erie CNPI - Port Colborne Hydro Grimsby Power Westario Power	Festival

3.5 MDM/R Enrolment Wave Calendar (2011-2012)

The MDM/R Enrolment Wave Calendar is an integrated plan illustrating the three formal enrolment testing milestones of SIT, QT and Cutover for all non-production LDCs. The background colour for each LDC's name indicates the source of the information used in the calendar:

- Green indicates that the LDC has submitted a project plan, completed Unit testing and the SME has accepted the LDC's Self-Certification for Enrolment Testing.
- Blue indicates that the SME has reviewed and accepted the LDC's project plan.
- Yellow either indicates that the SME has not received a project plan but has received verbal confirmation of the LDC's three enrolment testing milestones or that the LDC has verbally indicated that it will re-submit a new plan. This information is not used for projecting LDC cutover dates in any of the other charts in this report.
- Red indicates that the LDC has not shared their plan with the SME.
- White indicates a production LDC that has completed Cutover.
- Orange indicates that the LDC is scheduled for amalgamation.

The RPP eligible customer counts come from data filed by the LDCs with the OEB. As LDC plans change, the reason code will indicate one of five possible reasons.

1. The change may have been initiated by the SME due to resource or system constraints.
2. The LDC may have re-submitted a new plan.
3. The LDC may have missed timelines for their project tasks and therefore was not ready to proceed in accordance with their plan.
4. The LDC may have entered enrolment testing but subsequently had to withdraw because they were unable to successfully complete the tests.
5. The LDC's previous plan has changed but they have not re-submitted a new plan.

When an LDC's schedule is changed, the milestones for the previous schedule remain on the calendar but are greyed out.

Finally, each section on the timeline represents a one week period starting on a Monday.

MDM/R Enrolment Wave Calendar

as of December 31 2011

S SIT - normally 2 weeks
 Q QT - normally 4 weeks
 C Cutover - normally 2 weeks
S Q C

Reason for Latest Change	Dec 5	Dec 12	Dec 19	Dec 26	Jan 2	Jan 9	Jan 16	Jan 23	Jan 30	Feb 6	Feb 13	Feb 20	Feb 27	Mar 5	Mar 12	Mar 19	Mar 26	Apr 2	Apr 9	Apr 16	Apr 23	Apr 30	May 7	
Reason Code: 1: IESO Change 2: LDC Plan change 3: LDC Not Ready 4: LDC Wave Failure 5: Update pending																								

2012

RPP Eligible Customers	LDC Name	Dec 5	Dec 12	Dec 19	Dec 26	Jan 2	Jan 9	Jan 16	Jan 23	Jan 30	Feb 6	Feb 13	Feb 20	Feb 27	Mar 5	Mar 12	Mar 19	Mar 26	Apr 2	Apr 9	Apr 16	Apr 23	Apr 30	May 7	
11,535	Algoma Power Inc. (scheduled for CIS amalgamation with CNPI)																								
35,391	Bluewater Power Distribution Corp.																								
50,709	Cambridge & North Dumfries Hydro Inc.																								
3,526	CNPI - EOP																								
15,576	CNPI - Fort Erie																								
9,054	CNPI - Port Colborne Hydro Inc																								
83,902	ENWIN Powerlines Ltd.																								
19,335	Festival Hydro Inc.																								
46,194	Greater Sudbury Hydro Inc.																								
10,196	Grimsby Power Inc.																								
35,008	Peterborough Distribution Inc.																								
21,974	Westario Power Inc.																								
342,400	Non-production customer count																								

Red = No project plan submitted
Yellow = Verbal indication of major milestones
Blue = Project plan submitted
Green = Enrolment self-certification accepted
White = Production LDC
Orange = Scheduled for amalgamation

	MDMR Production LDCs	
1,686	Atikokan Hydro Inc.	
9,546	Brant County Power Inc	
37,597	Brantford Power Inc.	
63,859	Burlington Hydro Inc.	
6,425	Centre Wellington Hydro Ltd.	
1,274	Chapleau Public Utilities Corp.	
31,774	Chatham-Kent Hydro Inc.	
15,707	Collus Power Corp	
1,942	Cooperative Hydro Embrun Inc.	
10,802	E.L.K. Energy Inc.	
190,962	Enersource Hydro Mississauga Inc.	
17,886	Erie Thames Powerlines Corp. (amalgamated with Clinton Power and West Perth Power on June 1, 2011)	
3,288	Espanola Regional Hydro Distribution Corp.	
27,922	Essex Power Lines Corp.	
3,732	Fort Frances Power Corp.	
48,044	Guelph Hydro Electric Systems Inc.	
20,911	Haldimand County Hydro	
20,643	Halton Hills	
2,504	Hearst Power Distribution Company Ltd	
233,149	Horizon Utilities Corporation	
1,197	Hydro 2000 Inc.*	
5,350	Hydro Hawkesbury Inc.	
1,198,392	Hydro One	
136,215	Hydro One Brampton Networks Inc.	
301,790	Hydro Ottawa Limited	
14,751	Innisfil Hydro Distribution Systems Ltd.	
5,508	Kenora Hydro Electric Corp Ltd	
87,000	Kitchener-Wilmot Hydro Inc.	
26,512	Kingston Hydro Corporation	
9,537	Lakefront Utilities Inc.	
9,497	Lakeland Power Distribution Ltd.	
140,499	London Hydro	
7,924	Middlesex Power Distribution Corp. (bought Newbury(185) and Dutton (622))	
6,833	Midland Power Utility Corp	
28,701	Milton Hydro	
32,929	Newmarket Hydro Ltd./Tay Hydro	
7,919	Niagara-on-the-Lake Hydro Inc.	
49,790	Niagara Peninsula Energy Inc. (includes Peninsula West @ 14,351)	
6,037	Northern Ontario Wires Inc.	
23,612	North Bay Hydro Distribution Ltd *	
18,838	Norfolk Power Distribution Inc.	
62,719	Oakville Hydro Electricity Distribution Inc.	
11,106	Orangeville Hydro Ltd. (includes Grand Valley (659))	
12,885	Orillia Power Distribution Corp.	
52,657	Oshawa PUC Networks Inc.	
10,399	Ottawa River Power Corp.	
3,333	Parry Sound Power Corp.	
317,948	PowerStream Inc	
32,622	PUC Distribution Inc.	
3,872	Renfrew Hydro Inc.	
5,775	Rideau St. Lawrence Distribution Inc.	
2,706	Sioux Lookout Hydro	
16,281	St. Thomas Energy Inc.	
49,234	Thunder Bay Electricity Distribution Inc.	
6,669	Tillsonburg Hydro Inc.	
702,999	Toronto Hydro Electric Services Ltd.	
112,720	Veridian Connections	
12,266	Wasaga Distribution Inc.	
52,095	Waterloo North Hydro Inc.	
21,592	Welland Hydro-Electric System Corp.	
3,599	Wellington North Power Inc.	
3,647	West Coast Huron Energy Inc.	
40,051	Whitby Hydro Energy Services Corp.	
14,958	Woodstock Hydro Services Inc.	
4,420,617	Production total customer count	
4,763,017	All LDC total customer count	