

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **INTERROGATORY 85:**

2 **Reference(s):** **Exhibit 9, Tab 1, Schedule 1, page 1 Group 1 DVAs**

3

4

5 THESL states that it is still evaluating options to measure or estimate actual line losses.

6 THESL indicates that it will also assess the impact on affected Group 1 DVAs as per the
7 audit report [E9A-T1-S1-Appendix A]. Please state whether or not if THESL is not able
8 to conclude on the line loss issue by the end of this proceeding, it would intend to
9 continue to dispose of the Group 1 DVA balances as currently shown in the application.

10

11

12 **RESPONSE:**

13 Toronto Hydro anticipates that the information required to update (if necessary) the
14 balances in the Group 1 RSVA accounts will be available prior to the conclusion of this
15 proceeding. In the event this information is not available, Toronto Hydro proposes to
16 clear the balances as proposed, and any updates can be booked to the accounts to be
17 cleared in a future proceeding.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

INTERROGATORY 86:

**Reference(s): Exhibit 9, Tab 1, Schedule 1, page 2 and
Exhibit 9, Tab 1, Schedule 1, pages 20-22**

The first reference shows an account 1508 – Impact For USGAAP Deferral Account balance of \$38.8 million as of December 31, 2013.

The second reference states that in 2014 THESL expects differences between USGAAP and IFRS of \$36.0 million. THESL has asked to continue to use this account or to create a new account to record the transition to IFRS:

- a) Please provide the projected balance of the two transitions at December 31, 2014, specifically discussing whether it is \$74.8 million, which represents the sum of \$38.8 million plus \$36.0 million, or \$36 million. Please provide a complete explanation;
- b) Please explain why THESL does not want disposition of the projected balance in account 1508 – Impact For USGAAP Deferral Account.

RESPONSE:

- a) The amount of \$36.0 million in account 1508 as at December 31, 2014 is a forecast of the IFRS actuarial loss on the OPEB liability based on the actuarial valuation as at December 31, 2013. The \$36.0 million balance is the cumulative impact of the transition to US GAAP and then subsequent transition to IFRS. The balance of this account as at December 31, 2013 of \$38.8 million related only to the transition to US GAAP.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 The \$36.0 million represents the shortfall of the amount recovered (actual and
2 forecast) in OM&A expenses up to that date compared to the OPEB liability of
3 \$237.6 million. Under IFRS rules, effective January 1, 2015 actuarial gains or losses
4 may not be amortized into profit or loss (i.e., Recovered in OM&A expense), but
5 must be recognized directly into Shareholder's equity via Accumulated Other
6 Comprehensive Income. Under both Canadian and US GAAP, actuarial gains and
7 losses were permitted to be amortized into OM&A expense and thus would be
8 recovered in electricity rates over time. Accordingly, this "orphaned" expense could
9 be considered as eligible for disposition over future periods as a transition adjustment.

10

11 b) Toronto Hydro has decided not to apply for disposition of the actuarial loss of \$36.0
12 million in the current application. Being a stream of cash that outlays over a number
13 of future years, the net present value of the OPEB is very sensitive to interest rates.
14 Relative to historic values, interest rates now are very low and this has increased the
15 value of the OPEB liability and hence the current balance of the actuarial loss.
16 Toronto Hydro projects that interest rates are more likely to increase than decrease
17 over the CIR period, which would reduce the actuarial loss. As such, Toronto Hydro
18 believes that there is a reasonable probability that the current actuarial loss will be
19 substantially reduced before the end of the application period without the necessity of
20 funding from rate payers.

21

22 The underlying determinates of the value of the OPEB change over time and thus
23 Toronto Hydro wishes to reserve the right to maintain an account and potentially to
24 apply for disposition of a future actuarial loss as per the Accounting Procedures
25 Handbook (December 2011), Article 470, page 13.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

INTERROGATORY 87:

Reference(s): Exhibit 9, Tab 1, Schedule 1, page 2 and pages 7-11- 5.4 1592

HST

THESL has calculated capital savings in the account differently than the proxy method used in the illustrative example provided in the APH FAQ December 2010, Q4. The FAQ states “any alternative method to determine and record incremental ITCs must yield similar results so that there is no material difference between results from the alternative method and the amounts that would be derived from a transactional analysis”. Please explain how THESL’s method of calculating capital savings would result in no material difference in the amounts that would be derived from a transactional analysis.

The \$1.2 million credit requested for disposition pertains to July 2010 to December 2010. Please explain why the amount does not include savings pertaining from January 1, 2011 to April 30, 2015 as per the Filing Requirements for Electricity Rate Applications for 2015 Rate Applications, section 2.12.2. Please update the evidence as necessary.

Per APH FAQ December 2010, Q5, the Board concluded that 50% of the confirmed balances recorded in 1592 HST would be returned to rate payers. Please explain if THESL has included the 50% in its calculation of the \$1.2 million credit. If not, please explain why not.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **RESPONSE:**

2 As indicated in Exhibit 9, Tab 1, Schedule 1, page 9, lines 3-4, Toronto Hydro's
3 calculation of the HST Input Tax credit was essentially the same as the methodology as
4 described in the December 2010 APH FAQ. Toronto Hydro believes that this
5 methodology fairly represents the credits that would have been derived through a
6 transactional analysis, which in Toronto Hydro's case would have been unreasonably
7 complex.

8

9 Toronto Hydro's calculation only covers the period from July 2010 to December 2010
10 because Toronto Hydro filed and received OEB approval for 2011 rates on a cost of
11 service basis. The 2011 basis for rates excluded PST amounts; therefore, Toronto Hydro
12 does not require variance account treatment from January 1, 2011 to April 30, 2015..

13

14 The \$1.2 million credit proposed by Toronto Hydro represents 100% of the estimated
15 savings. In other words, Toronto Hydro did not reduce this amount further by 50%.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **INTERROGATORY 88:**

2 **Reference(s):** **Exhibit 9, Tab 1, Schedule 1, pages 12-13**

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5 In the above reference, Account 1508 Named Properties are discussed. Table 5 presents
6 capital gains related to the sale of property. Please provide the documents and analysis
7 that support the calculations of the pre-tax and after-tax capital gains shown in Table 5.

8

9 Please explain why there is such a large difference between the forecasted net capital
10 gains per EB-2007-0680 and the actual net capital gains incurred.

11

12

13 **RESPONSE:**

14 Forecasted gains on the properties as provided in EB-2007-0680 were the best estimates
15 of gains made at the time (mid-2007). The actual gains reflect the market values of the
16 properties at the time of actual sale.

17

18 With respect to the variance in the Goddard property, changes in market conditions and
19 costs related to environmental remediation contributed to the lower gains on sale. With
20 respect to the Wilson property, the variance is primarily due to changes in market
21 conditions.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **INTERROGATORY 89:**

2 **Reference(s):** **Exhibit 9, Tab 1, Schedule 1, pages 14-16**

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5 In the above reference, Account 1575 – IFRS USGAAP Transitional PP&E Amounts is
6 discussed. THESL has recorded \$25.8 million as a derecognition amount on the
7 changeover date to IFRS.

8

9 Please state if this is a forecast amount or the actual amount that THESL will recognize in
10 its 2014 audited financial statements and provide all necessary explanations. If it is a
11 forecast amount, please state if there will be a true-up when the 2014 financial statements
12 are finalized and provide all necessary explanations.

13

14 Please also provide a calculation that would remove the effects of derecognition from the
15 2015 revenue requirement including any variance account effects in the 2016 to 2019
16 period.

17

18

19 **RESPONSE:**

20 The derecognition amount recorded in Account 1575 – IFRS USGAAP Transitional
21 PP&E is a forecast amount. Article 510 of the OEB Accounting Procedure Handbook
22 (“APH”) – Accounting for Transitional Issues states the following with respect to
23 Account 1575:

24 In general, the account will be cleared at the first rebasing under MIFRS. In
25 individual cases, the Board may decide to clear only a portion of the

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 balance, and await actual results for the clearance of the remainder of the
2 account.

3 A true-up of Account 1575 would be consistent with the proposed treatment for 2015-
4 2019.

5
6 With respect to 2015 revenue requirement, if the 2015 derecognition amount (\$33.9
7 million) was removed, revenue requirement would be reduced by \$33.9 million
8 (excluding any PILs impacts). In this hypothetical case, the proposed variance account
9 would capture the full amount of actual derecognition expense in each year from 2015 to
10 2019.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

INTERROGATORY 90:

Reference(s): **Exhibit 9, Tab 1, Schedule S1, pages 14-16**

THESL indicates that the derecognition of assets under MIFRS occurs when assets are disposed of or when they are no longer expected to offer future economic benefits [E4B-T1-S2-P1].

- a) Please explain how similar assets were previously treated under USGAAP in historical and bridge years when the assets were disposed of or when they were no longer expected to provide future economic benefits;
- b) Please state what portion of the \$25.8 million derecognition loss relates to readily identifiable asset and what portion pertains to like assets.

RESPONSE:

- a) Toronto Hydro's accounting policy under US GAAP is: "Property, plant and equipment are stated at cost and are removed from the accounts at the end of their estimated average useful lives, except in those instances where *specific identification* allows their removal at retirement or disposition." In current practice, assets that are specifically identifiable include rolling stock and properties.
- b) The total derecognition loss of \$25.7 million in Account 1575 pertains to like assets.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **INTERROGATORY 91:**

2 **Reference(s):** **Exhibit 9, Tab 1, Schedule 1, pages 26-30**

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5 In the above reference, THESL's request for a variance account for externally driven
6 capital is discussed.

7

8 Please explain why when a third party requests the relocation of THESL's assets, the
9 third party does not pay for 100% of THESL's costs.

10

11

12 **RESPONSE:**

13 All third party relocation requests of Toronto Hydro assets, with the exception of a road
14 or rail authority, require 100% payment of Toronto Hydro's relocation costs. A
15 relocation request by a road or rail authority is subject to the apportionment of costs in
16 accordance with existing legislation. Please see Section E5.3.2 of Exhibit 2B E5.3 for
17 additional detail.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

INTERROGATORY 92:

Reference(s): **Exhibit 9, Tab 1, Schedule 1, page 28**

In the above reference, THESL's request for a variance account for derecognition is discussed.

THESL used Account 1575 to record derecognition as at January 1, 2014, the changeover date to IFRS. The amount recorded is \$25.7 million. THESL has requested an additional amount of \$33.9 million to be included in depreciation and a variance account to record the difference between actual and forecast for each year 2016-2019:

- a) Please provide the calculation of the \$33.9 million and identify the capital projects that will give rise to the amount;
- b) THESL plans to strand assets each year during its five-year capital plan. Assuming the \$33 million per year does arise during the test period 2015-2019, this will total \$165 million. Please state why this amount was not considered to be part of the total capital plan for the five-year period;
- c) Please state whether or not THESL expects to receive any proceeds from the asset stranding process. If yes, please state how THESL would treat such proceeds for regulatory purposes.

RESPONSE:

To clarify, Toronto Hydro has requested a variance account to record the difference between actual and forecast for each year 2015-2019.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

- 1
- 2 a) The methodology used to forecast the \$33.9 million derecognition for 2015 was two-
- 3 fold:
- 4 1) Derecognition losses were forecasted on the basis of the capital investment
- 5 programs outlined in the company's Distribution System Plan ("DSP"). The
- 6 removal of distribution assets was projected based on the planned capital work
- 7 outlined in the programs discussed in Exhibit 2B Section E. Specific asset details
- 8 such as asset type, age and quantity were collected for each asset removal and a
- 9 reasonable match was established to the asset forecasted net book values in order
- 10 to calculate the amount to be derecognized. All capital programs contained in the
- 11 DSP with a forecasted attainment date in 2015 contribute to the \$33.9 million
- 12 derecognition loss.
- 13 2) Where specific asset details regarding asset type, age and quantity was not known
- 14 at the time of the forecast, the derecognition loss was estimated as a percentage of
- 15 forecasted capex spend. The Reactive Capital and Externally-Initiated Plant
- 16 Relocation & Expansion programs were calculated under this approach.

17

18 The \$33.9 million derecognition loss can be broken down into the four DSP

19 groupings:

| System Service | System Renewal | System Access | General Plant | Total DSP |
|----------------|----------------|---------------|---------------|-----------|
| \$0.8 | \$30.9 | \$1.6 | \$0.6 | \$33.9 |

- 20 b) As noted in Exhibit 9, Tab 1, Schedule 1, page 28, Toronto Hydro's 2015 Revenue
- 21 Requirement includes \$33.9 million of depreciation to include the forecasted

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

- 1 derecognition in 2015. Through the operation of the proposed custom PCI, rates for
2 2016-2019 will include forecasted derecognition amounts through the C factor
3 calculation. The variance account is intended to capture any actual variances from
4 these amounts included in rates over the 2015-2019 period.
5
- 6 c) Toronto Hydro does not expect to receive any proceeds from the assets forecasted in
7 the \$33.9 million derecognition loss. Any material proceeds from the assets are
8 budgeted as part of scrap sales in Revenue Offsets. Please refer to Exhibit 3, Tab 2,
9 Schedule 1, pages 4-5 for the discussion on scrap sales.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **INTERROGATORY 93:**

2 **Reference(s):** **Exhibit 9, Tab 1, Schedule 1, page 28**

3

4

5 Account 1551 Smart Metering Entity Charge Variance Account is classified as a Group 1
6 account. Please explain why THESL has not requested the disposition of this account.

7

8

9 **RESPONSE:**

10 Toronto Hydro had anticipated that clearances of any balances in Account 1551 Smart
11 Meter Entity Charge Variance Account would occur when the current rate expires, at the
12 end of Oct 2018.

13

14 Toronto Hydro has re-read the OEB's March 28, 2013 letter to Licensed Electricity
15 Operators, and the included Accounting and Reporting Requirements. Based on these
16 requirements, Toronto Hydro will include the Dec 31, 2013 balance (\$0.4M) plus
17 carrying charges (\$13K) to the DVA amounts requested for clearance. Carrying charges
18 are calculated on the December 2013 principal balances until April 30, 2015.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

INTERROGATORY 94:

Reference(s): Exhibit 9, Tab 2, Schedule 4, App. 2-EA

The difference in 2014 closing net book values between MIFRS and USGAAP is \$19,079,572 as per Appendix 2-EA. This is different from the amount of \$19,648,940 as can be calculated from Appendix 2-BA [E2A-T1-S2-Pages 5-6]. It is also noted that the opening net PP&E, net additions and closing net PP&E under USGAAP and MIFRS as shown in Appendix 2-EA do not agree to those shown in Appendix 2-BA.

- a) Please explain how the figures in Appendix 2-EA were derived in relation to Appendix 2-BA;
- b) For Appendix 2-BA, please explain why there is a difference between the 2014 opening gross cost under USGAAP and MIFRS for land rights;
- c) Please explain why the 2014 MIFRS opening gross cost does not equal the 2013 USGAAP closing gross cost;
- d) Please explain why land rights are excluded from Account 1575;
- e) Though THESL is proposing to delay the true-up of its ICM, please explain why the asset transfer impact from ICM is excluded from Account 1575.

RESPONSE:

It is Toronto Hydro's understanding that based on the Chapter 2 filing requirements, Appendix 2-EA refers to the Account 1575 Deferral Account, which Toronto Hydro has filed in its application under Appendix 2-EC. The following responses are based on the assumption that the two appendices are synonymous.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

- 1 a) Appendix 2-BA excludes construction work in progress. The reconciliation is as
2 follows:

| | Closing Balance per 2-BA | Construction work in progress | Closing Balance per 2-EA (or 2-EC) |
|-------------|-----------------------------|----------------------------------|---------------------------------------|
| 2014 USGAAP | \$2,454,797,898 | \$508,563,952 | \$2,963,361,850 |
| 2014 MIFRS | \$2,435,148,959 | \$509,133,320 | \$2,944,282,279 |
| Difference | \$19,648,939 | | \$19,079,571 |

- 3 b) The difference between the 2014 opening gross cost for Land Rights under USGAAP
4 and MIFRS is due to the difference in the accounting treatment of a land lease under
5 these two accounting standards. Under USGAAP, THESL treated this land lease as a
6 prepaid with an annual amortized amount of approximately \$0.09 million into
7 OM&A. Under MIFRS, this land lease qualifies as a capital asset. As such, the land
8 lease is shown in PP&E and amortized over the remaining lease term. The amount
9 amortized into depreciation expense is \$0.09 million, the same amount that would
10 have been expensed into OM&A under USGAAP.

- 11
12 c) The 2014 MIFRS opening gross cost does not equal the 2013 US GAAP closing gross
13 cost due to the following transitional differences upon adoption of MIFRS on January
14 1, 2014:

| 2013 USGAAP Closing Gross Cost | Day 1 Difference related to Asset Retirement Obligation | Day 1 Difference related to Land Lease | 2014 MIFRS Opening Gross Cost |
|-----------------------------------|---|---|----------------------------------|
| \$4,977,690,044 | (\$859,059) | \$7,191,090 | \$4,984,022,075 |

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

- 1 d) Land rights are excluded from Account 1575 because it is a balance sheet
2 reclassification between prepaid and PP&E. Account 1575 is designed to defer the
3 recognition of transitional differences in the profit and loss, including opening
4 retained earnings.
5
- 6 e) The asset transfer impact from ICM is excluded from Account 1575 because the ICM
7 transfer is a balance sheet reclassification between PP&E and regulatory assets.
8 Account 1575 is designed to defer the recognition of transitional differences in the
9 profit and loss.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **INTERROGATORY 95:**

2 **Reference(s):** **Exhibit 9, Tab 2, Schedule 5, pp.3-7**

3

4

5 It is noted that the savings data THESL receives from the OPA is annualized and this
6 does not accurately reflect the actual initiation and implementation of CDM savings when
7 compared to CDM estimates by customer class.

8

9 THESL also notes that it “has adjusted its claimed savings based on typical application
10 rates and monthly savings realization from samples and averages”:

11

12 a) Please provide further description of this approach. In particular, please state whether
13 or not this approach differs from the “half-year” approach approved by the Board for
14 estimating the actual impact of CDM programs in their first year of introduction;

15 b) Please discuss whether THESL’s approach has been discussed with and endorsed by
16 the OPA;

17 c) Please also state whether or not THESL’s approach has been used by any other
18 distributor when making an LRAMVA claim and, if so, state which distributor;

19 d) Please provide the LRAMVA amount without applying the adjustments that THESL
20 has made and discuss the areas of the lost revenue amount for which the removal of
21 these adjustments causes the largest variations;

22 e) Please provide further description of how THESL derived the incremental 2011 CDM
23 program savings on 2011-2013 shown in E9/T2/T5/pg.5/Table 3 from the estimated
24 savings for 2011 programs as shown in E9/T2/S5/pg. 4/Table 2;

25 f) With respect to E9/T2/S5/pg. 6/Table 4, please provide separate tables showing the
26 initial year impact and the persistence in subsequent years for each of the 2011, 2012

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 and 2013 CDM programs, in other words, the breakdown of Table 4 by the CDM
2 programs for each of the years 2011, 2012 and 2013;

3 g) THESL notes that it has provided the preliminary unaudited OPA results for 2013
4 CDM programs in E9/T2/S5/Appendix B. The final OPA Reports are typically
5 released in the fall of the following year:

6 i) If available, please provide a copy of the final OPA results for 2013 CDM for
7 THESL.

8 ii) If the final results would necessitate a material change in the LRAMVA balances
9 for disposition, please update tables 4 and 5, and any tables requested in this
10 interrogatory, to reflect any such updates.

11

12

RESPONSE:

14 a) Where available, Toronto Hydro used actual project completion dates to accumulate
15 savings throughout the year of completion. For example, if a project was completed
16 on January 1, the full 12 months of savings would be counted in that year. However,
17 if the project was completed on June 30, the monthly savings would start
18 accumulating in July to the end of the year. This was further refined to account for
19 project types which were assessed for their likely pattern of annual savings, so as not
20 to allocate the same level of peak demand or consumption savings each month. For
21 example, peak demand and consumption savings related to CDM projects involving
22 cooling loads were considered 100% realized in the hottest months (July and August).
23 However, the savings resulting from these projects were reduced accordingly in the
24 shoulder and heating months. Where completion dates were not available, the
25 savings were evenly distributed throughout the year. Toronto Hydro believes this is a

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 more comprehensive analysis, and therefore, a more accurate depiction of the
2 realization of savings.

3
4 b) This approach was not discussed with the OPA. Toronto Hydro is not aware that
5 LRAMVA calculations are required to be reviewed by the OPA.

6
7 c) No, Toronto Hydro is not aware of any LDCs using the same approach of allocating
8 the actual CDM savings when making an LRAMVA claim.

9
10 d) The Table below shows updated LRAMVA amounts without applying the
11 adjustments to CDM savings. The removal of the adjustments results in an increase
12 in the 2011-2013 LRAMVA by approximately \$2.9 million.

| Customer Class | 2011 LRAMVA Amounts | 2012 LRAMVA Amounts | 2013 LRAMVA Amounts | 2011, 2012, 2013 LRAMVA Amounts |
|--|---------------------------|---------------------------|---------------------------|--|
| Residential | \$49,054 | \$889 | \$175,314 | \$223,257 |
| Competitive Sector Multi-Unit Residential ("CSMUR") | \$0 | \$0 | \$3,271 | \$3,271 |
| General Service <50 kW | \$312,033 | \$571,518 | \$1,186,699 | \$2,070,251 |
| General Service 50 - 999 kW | \$640,965 | \$1,258,778 | \$1,868,634 | \$3,768,377 |
| General Service 1000 - 4,999 kW | \$53,500 | \$4,985 | \$97,163 | \$155,648 |
| Large Use | \$35,361 | -\$51,222 | \$111,713 | \$95,853 |
| Total | \$1,090,913 | \$1,784,949 | \$3,440,795 | \$6,316,656 |

14 e) The 2011 forecasted incremental CDM ("A-B") is the difference between the 2011
15 ("A") and 2010 end of year ("B") cumulative CDM estimates (see Figure 1 below for

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 more details). The 2011 estimated cumulative CDM savings (refer to Exhibit 9, Tab
2 2, Schedule 5, page 4, Table 2, column 4) consist of the estimated impacts related to
3 2011 CDM program activities plus the persistence of CDM programs from the prior
4 years. Subsequently, the 2010 end of year cumulative CDM estimates represent the
5 savings from persistence of programs implemented in years prior to 2011.

6
7 The latest Toronto Hydro OEB-approved load forecast was for 2011 (EB-2010-0142).
8 As a result, the 2012 and 2013 forecasted CDM savings include only the impacts
9 from persistence of 2011 CDM programs. Please refer to the tables below for further
10 details on 2011-2013 CDM forecast calculations, by class.

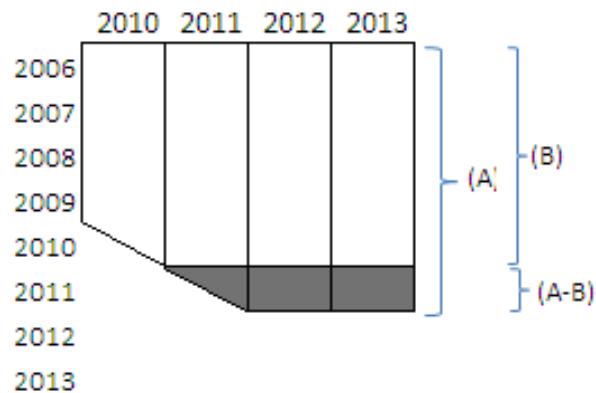


Figure 1: Calculation of incremental CDM Forecast

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 2011 CDM Savings Forecast

| Customer class | 2011 estimated cumulative CDM Savings (A) | Estimated CDM Savings persistence (2010 and prior) (B) | 2011 Incremental CDM Savings (A-B) | 2011 Incremental CDM Savings | |
|-----------------|--|---|---|---------------------------------|--------|
| | kWh | kWh | kWh | kWh (TLF adj) | kVA |
| Residential | 181,121,318 | 164,439,472 | 16,681,846 | 16,077,338 | |
| GS< 50kW | 145,464,252 | 127,918,428 | 17,545,824 | 16,910,008 | |
| GS 50-999 kW | 0 | 0 | 0 | | 0 |
| GS 1000-4999 kW | 152,041,157 | 133,560,920 | 18,480,237 | | 40,863 |
| Large Use | 149,271,581 | 131,127,988 | 18,143,593 | | 37,655 |

2 2012 CDM Savings Forecast

| Customer class | 2012 estimated cumulative CDM Savings | Estimated CDM Savings persistence (2010 and prior) | 2012 estimated CDM Savings | 2012 estimated CDM Savings | |
|-----------------|---|--|----------------------------------|-------------------------------|--------|
| | kWh | kWh | kWh | kWh (TLF adj) | kVA |
| Residential | 195,698,546 | 164,940,079 | 30,758,467 | 29,643,858 | |
| GS< 50kW | 160,655,176 | 128,303,682 | 32,351,494 | 31,179,157 | |
| GS 50-999 kW | 0 | 0 | 0 | | 0 |
| GS 1000-4999 kW | 168,037,220 | 133,962,829 | 34,074,391 | | 75,086 |
| Large Use | 164,976,254 | 131,522,576 | 33,453,678 | | 69,011 |

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RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **2013 CDM Savings Forecast**

| Customer class | Estimated cumulative CDM Savings | Estimated CDM Savings persistence (2010 and prior) | 2013 estimated CDM Savings | 2013 estimated CDM Savings | |
|--------------------------|----------------------------------|--|----------------------------|----------------------------|--------|
| | kWh | kWh | kWh | kWh (TLF adj) | kVA |
| Residential (incl CSMUR) | 195,113,899 | 164,439,472 | 30,674,427 | 29,562,863 | |
| GS< 50kW | 160,181,530 | 127,918,428 | 32,263,102 | 31,093,969 | |
| GS 50-999 kW | 0 | 0 | 0 | | 0 |
| GS 1000-4999 kW | 167,542,212 | 133,560,920 | 33,981,292 | | 74,891 |
| Large Use | 164,490,262 | 131,127,988 | 33,362,275 | | 68,831 |

- 2 f) The following tables include 2011-2013 actual CDM savings by class broken down
3 into three categories: the initial year impact, remaining realization in the following
4 year, and persistence.

5

6 **Residential – Actual 2011-2013 CDM Savings, MWh**

| | 2011 | 2012 | | 2013 | |
|-------------------|--------------|---------------|-------|---------------|-------|
| 2011 CDM Programs | 7,041 | 12,060 | 7,040 | 18,867 | |
| 2012 CDM Programs | | 4,429 | | 6,119 | 4,244 |
| 2013 CDM Programs | | | | 4,828 | |
| Total | 7,041 | 23,529 | | 34,059 | |

7

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **CSMUR – Actual 2011-2013 CDM Savings, MWh**

| | 2011 | 2012 | | 2013 |
|-------------------|------|------|-----|------------|
| 2011 CDM Programs | N/A | N/A | N/A | 233 |
| 2012 CDM Programs | | N/A | | 62 |
| 2013 CDM Programs | | | | 83 |
| Total | | | | 81 |
| | | | | 459 |

2 **GS<50 kW – Actual 2011-2013 CDM Savings, MWh**

| | 2011 | 2012 | | 2013 |
|-------------------|---------------|---------------|--------|---------------|
| 2011 CDM Programs | 11,311 | 19,375 | 11,329 | 30,717 |
| 2012 CDM Programs | | 10,740 | | 15,173 |
| 2013 CDM Programs | | | | 10,629 |
| | | | | 11,529 |
| Total | 11,311 | 41,444 | | 68,048 |

3 **GS 50-999 kW – Actual 2011-2013 CDM Savings, MVA**

| | 2011 | 2012 | | 2013 |
|-------------------|--------------|---------------|-------|---------------|
| 2011 CDM Programs | 61.75 | 54.12 | 61.75 | 115.87 |
| 2012 CDM Programs | | 46.31 | | 64.43 |
| 2013 CDM Programs | | | | 45.15 |
| | | | | 51.56 |
| Total | 61.75 | 162.18 | | 277.01 |

4

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1 **GS 1000-4999 kW – Actual 2011-2013 CDM Savings, MVA**

| | 2011 | 2012 | | 2013 |
|-------------------|--------------|--------------|-------|--------------|
| 2011 CDM Programs | 30.00 | 26.43 | 30.00 | 56.43 |
| 2012 CDM Programs | | 8.34 | | 11.65 |
| 2013 CDM Programs | | | | 8.13 |
| | | | | 10.73 |
| Total | 30.00 | 64.78 | | 86.94 |

2 **Large Use – Actual 2011-2013 CDM Savings, MVA**

| | 2011 | 2012 | | 2013 |
|-------------------|--------------|--------------|-------|--------------|
| 2011 CDM Programs | 25.58 | 22.55 | 25.58 | 48.13 |
| 2012 CDM Programs | | 3.75 | | 5.23 |
| 2013 CDM Programs | | | | 3.65 |
| | | | | 17.80 |
| Total | 25.58 | 51.88 | | 74.81 |

3 g)

4 i) A copy of the final OPA results for 2013 CDM for Toronto Hydro is provided as
5 Appendix A to this Schedule.

6

7 ii) Toronto Hydro has recalculated the LRAMVA balances based on 2013 final verified
8 OPA CDM results. The resulting LRAMVA amount is approximately \$35,000
9 higher. As a result, Toronto Hydro believes that the LRAMVA balance change is
10 immaterial and does not require any further updates.



saveONenergy™

Message from the Vice President:

The OPA is pleased to provide you with the enclosed Final 2013 Verified Results Report.

2013 Report highlights:

- We have achieved 86% of our cumulative energy savings target and 48% of our annual peak demand savings target to date (Scenario 2).
By the end of 2013, 42 LDCs have exceeded 80% of their energy target and 19 LDCs have met or exceeded their 2011-14 energy target.
- In 2013, LDCs have achieved over 600 GWh in savings, representing an increase of 20% over the 2012 net incremental energy savings results.
- The BUSINESS PROGRAM continues to generate strong interest and participation amongst business customers with significant savings results. 71% of total energy savings in 2013 came from the BUSINESS PROGRAM and its momentum continues. Also, as the program matures, we are seeing more and more studies in the PROCESS AND SYSTEMS pipeline converting to completed projects.
- Within 4 cents per kWh, Conservation programs continue to be a valuable and cost effective resource for customers across the province.

2013 has been a year of significant operational advancements centered around creating a better customer and LDC experience:

- A number of operational changes were made in 2013 to enhance processes, such as payment of LDC invoices streamlined to an average of 20 days, enhanced reporting and iCon updates to improve users' experience.
- Proactive updates to measures incentivized through saveONenergy have allowed programs to stay ahead of changing market conditions. Specifically in 2013, LEDs became popular measures in both the Consumer and Business programs.
- Technical tools also played a significant role in 2013, which included an updated Measure and Assumptions List as well as new and improved engineering worksheets for RETROFIT which allow customers to more easily access programs by building strong business cases based on latest estimates of savings potential.
- The Conservation Fund introduced the LDC Fast Track stream to support LDCs with innovative program ideas. 2013 LDC pilots included Oshawa PUC Networks Inc.'s retro-commissioning program, Toronto Hydro-Electric System Limited multi-unit demand response, and Niagara-on-the-Lake Hydro Inc.'s electric vehicles load shifting program.
- Key market sectors were also engaged in 2013 through Capability Building programs targeted at Home Builders and HVAC Installers to build conservation knowledge with these partners. Energy Efficiency Services Programs (EESPs) also provided valuable support to a variety of sectors.

The format of this report was developed in collaboration with the Reporting Working Group and is designed to help LDCs populate their 2013 Annual Reports that will be submitted to the OEB by September 30th. Any additional 2013 program activity not captured here will be reported in your Final 2014 Verified Results Report.

Please continue to monitor saveONenergy E-blasts for any further updates and should you have any other questions or comments please contact LDC.Support@powerauthority.on.ca.

We appreciate your ongoing collaboration and cooperation throughout the reporting and evaluation process. We look forward to another successful year in 2014.

Sincerely,

Andrew Pride

| Table of Contents | | | |
|---|---|---|----------|
| Summary | | Provides a "snapshot" of the LDC specific OPA-Contracted Province-Wide Program performance to date: progress to target using 2 scenarios, sector breakdown and progress to target for the LDC community | 3 |
| LDC-Specific Performance (LDC Level Results) | | | |
| Table 1 | LDC Initiative and Program Level Net Savings | Provides LDC-specific initiative-level results (activity, net peak demand and energy savings, and how each initiative contributes to targets). | 4 |
| Table 2 | LDC Adjustments to Net Verified Results | Provides LDC-specific initiative level adjustments from previous years (activity, net peak demand and energy savings). | 5 |
| Table 3 | LDC Realization Rates & NTGs | Provides LDC-specific initiative-level realization rates and net-to-gross ratios. | 6 |
| Table 4 | LDC Net Peak Demand Savings (MW) | Provides a portfolio level view of LDC achievement of net peak demand savings towards OEB target to date. | 7 |
| Table 5 | LDC Net Energy Savings (GWh) | Provides a portfolio level view of LDC achievement of net energy savings towards OEB target to date. | 7 |
| Province-Wide Data - (LDC Performance in Aggregate) | | | |
| Table 6 | Provincial Initiative and Program Level Net Savings | Provides province-wide initiative-level results (activity, net peak demand and energy savings, and how each initiative contributes to targets). | 8 |
| Table 7 | Provincial Adjustments to Net Verified Results | Provides province-wide initiative level adjustments from previous years (activity, net peak demand and energy savings). | 9 |
| Table 8 | Provincial Realization Rates & NTGs | Provides province-wide initiative-level realization rates and net-to-gross ratios. | 10 |
| Table 9 | Provincial Net Peak Demand Savings (MW) | Provides a portfolio level view of provincial achievement of net peak demand savings towards the OEB target to date. | 11 |
| Table 10 | Provincial Net Energy Savings (GWh) | Provides a portfolio level view of achievement of provincial net energy savings towards the OEB target to date. | 11 |
| Appendix | | | |
| - | Methodology | Detailed descriptions of methods used for results. | 12 to 21 |
| - | Reference Tables | To map C&I and Industrial customer data and Consumer Program allocation methodology. | 22 to 25 |
| - | Glossary | Definitions for terms used throughout the report. | 26 |
| Table 11 | LDC Initiative and Program Level Gross Savings | Provides LDC-specific initiative-level results (gross peak demand and energy savings). | 27 |
| Table 12 | LDC Adjustments to Gross Verified Results | Provides LDC-specific initiative level adjustments from previous years (gross peak demand and energy savings). | 28 |
| Table 13 | Provincial Initiative and Program Level Gross Savings | Provides province-wide initiative-level results (gross peak demand and energy savings). | 29 |
| Table 14 | Provincial Adjustments to Gross Verified Results | Provides province-wide initiative level adjustments from previous years (gross peak demand and energy savings). | 30 |

OPA-Contracted Province-Wide CDM Programs Final Verified 2013 Results

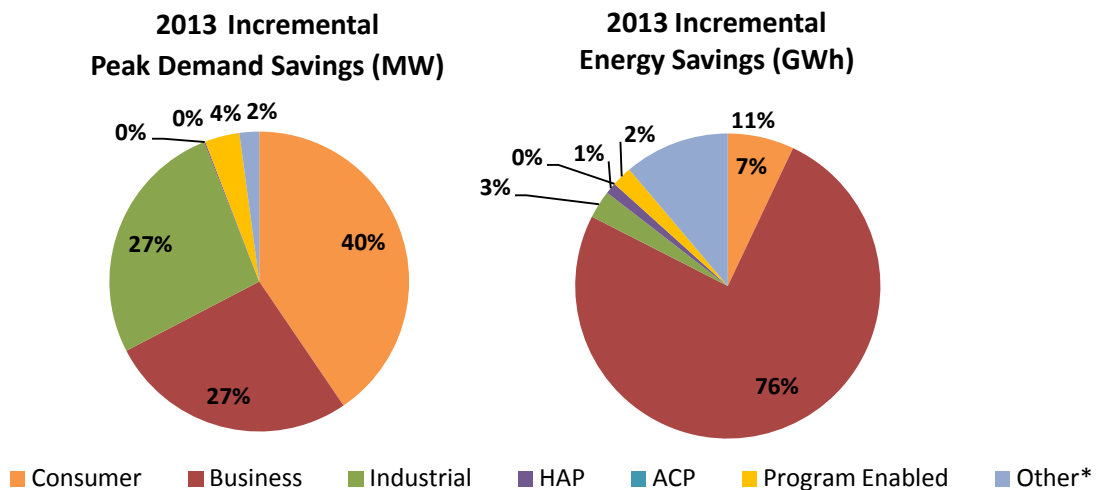
LDC: Toronto Hydro-Electric System Limited

| FINAL 2013 Progress to Targets | 2013 Incremental | Program-to-Date Progress to Target (Scenario 1) | Scenario 1: % of Target Achieved | Scenario 2: % of Target Achieved |
|-------------------------------------|------------------|---|----------------------------------|----------------------------------|
| Net Annual Peak Demand Savings (MW) | 93.6 | 85.4 | 29.8% | 52.7% |
| Net Energy Savings (GWh) | 135.5 | 1,301.5 | 99.8% | 99.8% |

Scenario 1 = Assumes that demand response resources have a persistence of 1 year

Scenario 2 = Assumes that demand response resources remain in the LDC service territory until 2014

Achievement by Sector



*Other includes adjustments to previous years' results and savings from pre-2011 initiatives

Comparison: LDC Achievement vs. LDC Community Achievement (Progress to Target)

The following graphs assume that demand response resources remain in the LDC service territory until 2014 (aligns with Scenario 2)

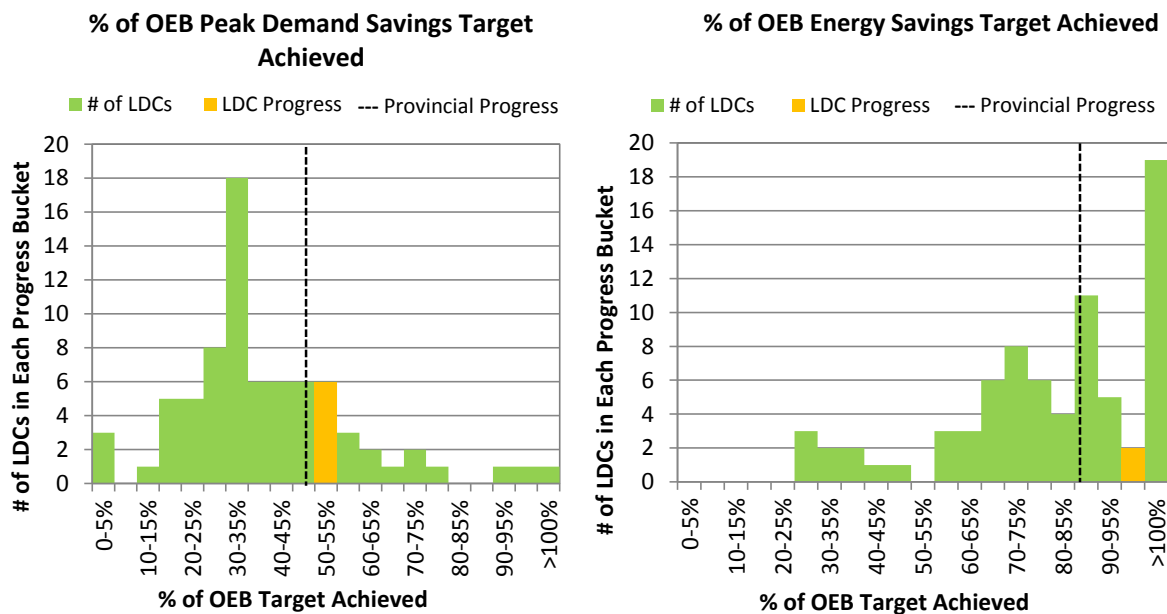


Table 1: Toronto Hydro-Electric System Limited Initiative and Program Level Net Savings by Year (Scenario 1)

| Initiative | Unit | Incremental Activity (new program activity occurring within the specified reporting period) | | | | Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period) | | | | Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period) | | | | Program-to-Date Verified Progress to Target (excludes DR) | |
|---|------------|---|---------|---------|------|---|--------|--------|------|--|-------------|-------------|------|--|---|
| | | 2011* | 2012* | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2014 Net Annual Peak Demand Savings (kW) | 2011-2014 Net Cumulative Energy Savings (kWh) |
| | | | | | | | | | | | | | | | |
| Consumer Program | | | | | | | | | | | | | | | |
| Appliance Retirement | Appliances | 6,088 | 2,802 | 1,541 | | 349 | 161 | 100 | | 2,343,820 | 1,091,609 | 656,268 | | 579 | 13,933,867 |
| Appliance Exchange | Appliances | 549 | 580 | 397 | | 52 | 83 | 82 | | 57,879 | 143,607 | 146,668 | | 178 | 920,442 |
| HVAC Incentives | Equipment | 16,744 | 13,393 | 14,327 | | 5,674 | 2,821 | 3,015 | | 10,493,166 | 4,781,806 | 5,189,758 | | 11,510 | 66,697,599 |
| Conservation Instant Coupon Booklet | Items | 66,320 | 3,953 | 44,396 | | 150 | 29 | 66 | | 2,439,881 | 178,941 | 986,409 | | 245 | 12,269,164 |
| Bi-Annual Retailer Event | Items | 121,855 | 135,773 | 120,911 | | 215 | 189 | 151 | | 3,760,986 | 3,427,499 | 2,198,663 | | 556 | 29,723,766 |
| Retailer Co-op | Items | 13 | 0 | 0 | | 0 | 0 | 0 | | 230 | 0 | 0 | | 0 | 919 |
| Residential Demand Response | Devices | 1,328 | 43,149 | 54,306 | | 743 | 22,940 | 34,491 | | 1,924 | 168,943 | 239,477 | | 0 | 410,345 |
| Residential Demand Response (IHD) | Devices | 0 | 23,824 | 51,736 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Residential New Construction | Homes | 0 | 0 | 50 | | 0 | 0 | 14 | | 0 | 0 | 105,822 | | 14 | 211,643 |
| Consumer Program Total | | | | | | 7,184 | 26,223 | 37,920 | | 19,097,886 | 9,792,405 | 9,523,065 | | 13,082 | 124,167,747 |
| Business Program | | | | | | | | | | | | | | | |
| Retrofit | Projects | 636 | 1,268 | 1,713 | | 7,527 | 15,973 | 15,424 | | 43,007,032 | 80,294,445 | 90,527,082 | | 38,362 | 591,225,618 |
| Direct Install Lighting | Projects | 3,971 | 3,519 | 2,366 | | 4,903 | 2,502 | 2,092 | | 12,683,558 | 9,383,020 | 6,898,480 | | 7,404 | 85,037,910 |
| Building Commissioning | Buildings | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| New Construction | Buildings | 0 | 11 | 3 | | 0 | 151 | 74 | | 0 | 269,821 | 407,340 | | 225 | 1,624,142 |
| Energy Audit | Audits | 79 | 93 | 89 | | 0 | 393 | 784 | | 0 | 1,913,395 | 4,312,118 | | 1,178 | 14,364,423 |
| Small Commercial Demand Response | Devices | 36 | 132 | 145 | | 23 | 84 | 92 | | 84 | 478 | 119 | | 0 | 682 |
| Small Commercial Demand Response (IHD) | Devices | 0 | 0 | 89 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Demand Response 3 | Facilities | 26 | 28 | 44 | | 1,915 | 4,413 | 6,678 | | 75,010 | 64,142 | 98,839 | | 0 | 237,991 |
| Business Program Total | | | | | | 14,369 | 23,516 | 25,144 | | 55,765,683 | 91,925,302 | 102,243,979 | | 47,169 | 692,490,765 |
| Industrial Program | | | | | | | | | | | | | | | |
| Process & System Upgrades | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Monitoring & Targeting | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Energy Manager | Projects | 0 | 19 | 26 | | 0 | 785 | 607 | | 0 | 5,639,289 | 3,446,706 | | 1,037 | 21,517,666 |
| Retrofit | Projects | 32 | 0 | 0 | | 522 | 0 | 0 | | 3,017,532 | 0 | 0 | | 522 | 12,070,127 |
| Demand Response 3 | Facilities | 17 | 20 | 28 | | 10,024 | 10,274 | 24,336 | | 588,385 | 247,610 | 564,746 | | 0 | 1,400,741 |
| Industrial Program Total | | | | | | 10,545 | 11,059 | 24,943 | | 3,605,917 | 5,886,899 | 4,011,451 | | 1,559 | 34,988,535 |
| Home Assistance Program | | | | | | | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 626 | 2,398 | | 0 | 98 | 122 | | 0 | 790,242 | 1,620,650 | | 215 | 5,534,388 |
| Home Assistance Program Total | | | | | | 0 | 98 | 122 | | 0 | 790,242 | 1,620,650 | | 215 | 5,534,388 |
| Aboriginal Program | | | | | | | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Direct Install Lighting | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Aboriginal Program Total | | | | | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Pre-2011 Programs completed in 2011 | | | | | | | | | | | | | | | |
| Electricity Retrofit Incentive Program | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| High Performance New Construction | Projects | 0 | | | | 16 | 14 | 0 | | 84,494 | 14,011 | 0 | | 31 | 380,009 |
| Toronto Comprehensive | Projects | 577 | 0 | 0 | | 15,805 | 0 | 0 | | 86,964,886 | 0 | 0 | | 15,805 | 347,859,545 |
| Multifamily Energy Efficiency Rebates | Projects | 107 | 0 | 0 | | 1,906 | 0 | 0 | | 7,400,835 | 0 | 0 | | 1,906 | 29,603,338 |
| LDC Custom Programs | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Pre-2011 Programs completed in 2011 Total | | | | | | 17,727 | 14 | 0 | | 94,450,215 | 14,011 | 0 | | 17,741 | 377,842,892 |
| Other | | | | | | | | | | | | | | | |
| Program Enabled Savings | Projects | 1 | 5 | 2 | | 0 | 0 | 3,513 | | 0 | 0 | 2,915,337 | | 3,513 | 5,830,674 |
| Time-of-Use Savings | Homes | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Other Total | | | | | | 0 | 0 | 3,513 | | 0 | 0 | 2,915,337 | | 3,513 | 5,830,674 |
| Adjustments to 2011 Verified Results | | | | | | 178 | | | | 3,791,694 | | | | 571 | |
| Adjustments to 2012 Verified Results | | | | | | 1,588 | | | | 14,922,926 | | | | 1,546 | |
| Energy Efficiency Total | | | | | | 37,120 | 23,199 | 26,046 | | 172,254,298 | 107,927,685 | 119,411,301 | | 83,279 | 1,238,805,242 |
| Demand Response Total (Scenario 1) | | | | | | 12,705 | 37,711 | 65,597 | | 665,403 | 481,174 | 903,181 | | 0 | 2,049,758 |
| Adjustments to Previous Years' Verified Results Total | | | | | | 0 | 178 | 1,988 | | 0 | 3,791,694 | 15,138,838 | | 2,117 | 60,630,103 |
| OPA-Contracted LDC Portfolio Total (inc. Adjustments) | | | | | | 49,825 | 61,088 | 93,631 | | 172,919,701 | 112,200,552 | 135,453,320 | | 85,396 | 1,301,485,103 |
| Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively) | | The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available. | | | | | | | | Full OEB Target: | | | | 286,270 | |
| | | | | | | | | | | % of Full OEB Target Achieved to Date (Scenario 1): | | | | 29.8% | |

Table 2: Adjustments to Toronto Hydro-Electric System Limited Net Verified Results due to Variances

| Initiative | Unit | Incremental Activity (new program activity occurring within the specified reporting period) | | | | Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period) | | | | Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period) | | | |
|---|------------|--|-------|------|------|---|-------|------|------|--|------------|------|------|
| | | 2011* | 2012* | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 |
| Consumer Program | | | | | | | | | | | | | |
| Appliance Retirement | Appliances | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Appliance Exchange | Appliances | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| HVAC Incentives | Equipment | -3,164 | 346 | | | -863 | 70 | | | -1,572,488 | 138,411 | | |
| Conservation Instant Coupon Booklet | Items | 1,051 | 0 | | | 2 | 0 | | | 35,278 | 0 | | |
| Bi-Annual Retailer Event | Items | 10,471 | 0 | | | 14 | 0 | | | 279,429 | 0 | | |
| Retailer Co-op | Items | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Residential Demand Response | Devices | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Residential Demand Response (IHD) | Devices | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Residential New Construction | Homes | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Consumer Program Total | | | | | | -847 | 70 | | | -1,257,781 | 138,411 | | |
| Business Program | | | | | | | | | | | | | |
| Retrofit | Projects | 54 | 100 | | | 905 | 1,067 | | | 4,543,720 | 7,586,120 | | |
| Direct Install Lighting | Projects | 25 | 21 | | | 32 | 48 | | | 78,682 | 164,080 | | |
| Building Commissioning | Buildings | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| New Construction | Buildings | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Energy Audit | Audits | 19 | 17 | | | 98 | 88 | | | 478,349 | 427,996 | | |
| Small Commercial Demand Response | Devices | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Small Commercial Demand Response (IHD) | Devices | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Demand Response 3 | Facilities | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Business Program Total | | | | | | 1,036 | 1,203 | | | 5,100,751 | 8,178,195 | | |
| Industrial Program | | | | | | | | | | | | | |
| Process & System Upgrades | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Monitoring & Targeting | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Energy Manager | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Retrofit | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Demand Response 3 | Facilities | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Industrial Program Total | | | | | | 0 | 0 | | | 0 | 0 | | |
| Home Assistance Program | | | | | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Home Assistance Program Total | | | | | | 0 | 0 | | | 0 | 0 | | |
| Aboriginal Program | | | | | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Direct Install Lighting | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Aboriginal Program Total | | | | | | 0 | 0 | | | 0 | 0 | | |
| Pre-2011 Programs completed in 2011 | | | | | | | | | | | | | |
| Electricity Retrofit Incentive Program | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| High Performance New Construction | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Toronto Comprehensive | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Multifamily Energy Efficiency Rebates | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| LDC Custom Programs | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Pre-2011 Programs completed in 2011 Total | | | | | | 0 | 0 | | | 0 | 0 | | |
| Other | | | | | | | | | | | | | |
| Program Enabled Savings | Projects | 1 | 4 | | | 390 | 315 | | | 164,800 | 6,606,320 | | |
| Time-of-Use Savings | Homes | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Other Total | | | | | | 390 | 315 | | | 164,800 | 6,606,320 | | |
| Adjustments to 2011 Verified Results | | | | | | 579 | | | | 4,007,770 | | | |
| Adjustments to 2012 Verified Results | | | | | | | 1,588 | | | | 14,922,926 | | |
| Total Adjustments to Previous Years' Verified Results | | | | | | 579 | 1,588 | | | 4,007,770 | 14,922,926 | | |

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above does not consider persistence of savings

Table 3: Toronto Hydro-Electric System Limited Realization Rate & NTG

| Initiative | Peak Demand Savings | | | | | | | | Energy Savings | | | | | | | |
|--|---------------------|------|------|------|--------------------|------|------|------|------------------|------|------|------|--------------------|------|------|------|
| | Realization Rate | | | | Net-to-Gross Ratio | | | | Realization Rate | | | | Net-to-Gross Ratio | | | |
| | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 |
| Consumer Program | | | | | | | | | | | | | | | | |
| Appliance Retirement | 1.00 | 1.00 | n/a | | 0.49 | 0.46 | 0.42 | | 1.00 | 1.00 | n/a | | 0.50 | 0.47 | 0.44 | |
| Appliance Exchange | 1.00 | 1.00 | 1.00 | | 0.52 | 0.52 | 0.53 | | 1.00 | 1.00 | 1.00 | | 0.52 | 0.52 | 0.53 | |
| HVAC Incentives | 1.00 | 1.00 | n/a | | 0.60 | 0.50 | 0.48 | | 1.00 | 1.00 | n/a | | 0.60 | 0.49 | 0.48 | |
| Conservation Instant Coupon Booklet | 1.00 | 1.00 | 1.00 | | 1.14 | 1.00 | 1.11 | | 1.00 | 1.00 | 1.00 | | 1.11 | 1.05 | 1.13 | |
| Bi-Annual Retailer Event | 1.00 | 1.00 | 1.00 | | 1.13 | 0.91 | 1.04 | | 1.00 | 1.00 | 1.00 | | 1.10 | 0.92 | 1.04 | |
| Retailer Co-op | 1.00 | n/a | n/a | | 0.68 | n/a | n/a | | 1.00 | n/a | n/a | | 0.68 | n/a | n/a | |
| Residential Demand Response | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Residential Demand Response (IHD) | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Residential New Construction | n/a | n/a | 0.75 | | n/a | n/a | 0.63 | | n/a | n/a | 2.85 | | n/a | n/a | 0.63 | |
| Business Program | | | | | | | | | | | | | | | | |
| Retrofit | 0.98 | 0.92 | 0.91 | | 0.69 | 0.72 | 0.71 | | 1.02 | 0.98 | 0.97 | | 0.72 | 0.74 | 0.72 | |
| Direct Install Lighting | 1.08 | 0.69 | 0.82 | | 0.93 | 0.94 | 0.94 | | 0.90 | 0.85 | 0.84 | | 0.93 | 0.94 | 0.94 | |
| Building Commissioning | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| New Construction | n/a | 1.00 | 0.59 | | n/a | 0.49 | 0.54 | | n/a | 1.00 | 0.97 | | n/a | 0.49 | 0.54 | |
| Energy Audit | n/a | n/a | 1.02 | | n/a | n/a | 0.66 | | n/a | n/a | 0.97 | | n/a | n/a | 0.66 | |
| Small Commercial Demand Response | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Small Commercial Demand Response (IHD) | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Demand Response 3 | 0.76 | n/a | n/a | | n/a | n/a | n/a | | 1.00 | n/a | n/a | | n/a | n/a | n/a | |
| Industrial Program | | | | | | | | | | | | | | | | |
| Process & System Upgrades | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Monitoring & Targeting | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Energy Manager | n/a | 1.13 | 0.90 | | n/a | 0.90 | 0.90 | | n/a | 1.13 | 0.90 | | n/a | 0.90 | 0.90 | |
| Retrofit | | | | | | | | | | | | | | | | |
| Demand Response 3 | 0.84 | n/a | n/a | | n/a | n/a | n/a | | 1.00 | n/a | n/a | | n/a | n/a | n/a | |
| Home Assistance Program | | | | | | | | | | | | | | | | |
| Home Assistance Program | n/a | 0.41 | 0.84 | | n/a | 1.00 | 1.00 | | n/a | 1.00 | 0.87 | | n/a | 1.00 | 1.00 | |
| Aboriginal Program | | | | | | | | | | | | | | | | |
| Home Assistance Program | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Direct Install Lighting | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Pre-2011 Programs completed in 2011 | | | | | | | | | | | | | | | | |
| Electricity Retrofit Incentive Program | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| High Performance New Construction | 1.00 | 1.00 | 1.00 | | 0.50 | 0.50 | 0.50 | | 1.00 | 1.00 | 1.00 | | 0.50 | 0.50 | 0.50 | |
| Toronto Comprehensive | 1.33 | n/a | n/a | | 0.41 | n/a | n/a | | 1.15 | n/a | n/a | | 0.41 | n/a | n/a | |
| Multifamily Energy Efficiency Rebates | 0.99 | n/a | n/a | | 0.69 | n/a | n/a | | 0.99 | n/a | n/a | | 0.69 | n/a | n/a | |
| LDC Custom Programs | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Other | | | | | | | | | | | | | | | | |
| Program Enabled Savings | n/a | n/a | 1.00 | | n/a | n/a | 1.00 | | n/a | n/a | 1.00 | | n/a | n/a | 1.00 | |
| Time-of-Use Savings | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |

Energy Manager, Aboriginal Program and Program Enabled Savings were not independently evaluated

Summary Progress Towards CDM Targets

Results are attributed to target using current OPA reporting policies. Energy efficiency resources persist for the duration of the effective useful life. Any upcoming code changes are taken into account. Demand response resources persist for 1 year (Scenario 1). Please see methodology tab for more detailed information.

Table 4: Net Peak Demand Savings at the End User Level (MW) (Scenario 1)

| Implementation Period | Annual | | | |
|--|--------|------|------|-------|
| | 2011 | 2012 | 2013 | 2014 |
| 2011 - Verified | 49.8 | 37.1 | 36.7 | 35.2 |
| 2012 - Verified† | 0.2 | 61.1 | 23.1 | 22.7 |
| 2013 - Verified† | 0.4 | 2.0 | 93.6 | 27.5 |
| 2014 | | | | |
| Verified Net Annual Peak Demand Savings Persisting in 2014: | | | | 85.4 |
| Toronto Hydro-Electric System Limited 2014 Annual CDM Capacity Target: | | | | 286.3 |
| Verified Portion of Peak Demand Savings Target Achieved in 2014 (%): | | | | 29.8% |

Table 5: Net Energy Savings at the End User Level (GWh)

| Implementation Period | Annual | | | | Cumulative |
|---|--------|-------|-------|-------|------------|
| | 2011 | 2012 | 2013 | 2014 | 2011-2014 |
| 2011 - Verified | 172.9 | 172.1 | 171.0 | 166.9 | 683.0 |
| 2012 - Verified† | 3.8 | 112.2 | 110.8 | 109.4 | 336.3 |
| 2013 - Verified† | 0.2 | 15.1 | 135.5 | 131.4 | 282.3 |
| 2014 | | | | | |
| Verified Net Cumulative Energy Savings 2011-2014: | | | | | 1,301.5 |
| Toronto Hydro-Electric System Limited 2011-2014 Annual CDM Energy Target: | | | | | 1,304.0 |
| Verified Portion of Cumulative Energy Target Achieved in 2014 (%): | | | | | 99.8% |

†Includes adjustments to previous Years' verified results

Table 6: Province-Wide Initiatives and Program Level Net Savings by Year (Scenario 1)

| Initiative | Unit | Incremental Activity (new program activity occurring within the specified reporting period) | | | | Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period) | | | | Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period) | | | | Program-to-Date Verified Progress to Target (excludes DR) | | |
|--|------------|--|-----------|---------|------|---|---------|---------|------|--|-------------|-------------|------|--|---|---------------|
| | | 2011* | 2012* | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2014 Net Annual Peak Demand Savings (kW) | 2011-2014 Net Cumulative Energy Savings (kWh) | |
| | | | | | | | | | | | | | | | | 2014 |
| Consumer Program | | | | | | | | | | | | | | | | |
| Appliance Retirement | Appliances | 56,110 | 34,146 | 20,952 | | 3,299 | 2,011 | 1,433 | | 23,005,812 | 13,424,518 | 8,713,107 | | 6,605 | 149,603,072 | |
| Appliance Exchange | Appliances | 3,688 | 3,836 | 5,337 | | 371 | 556 | 1,106 | | 450,187 | 974,621 | 1,971,701 | | 1,795 | 8,455,927 | |
| HVAC Incentives | Equipment | 92,743 | 87,427 | 91,581 | | 32,037 | 19,060 | 19,552 | | 59,437,670 | 32,841,283 | 33,923,592 | | 70,650 | 404,121,713 | |
| Conservation Instant Coupon Booklet | Items | 567,678 | 30,891 | 346,896 | | 1,344 | 230 | 517 | | 21,211,537 | 1,398,202 | 7,707,573 | | 2,091 | 104,455,900 | |
| Bi-Annual Retailer Event | Items | 952,149 | 1,060,901 | 944,772 | | 1,681 | 1,480 | 1,184 | | 29,387,468 | 26,781,674 | 17,179,841 | | 4,345 | 232,254,579 | |
| Retailer Co-op | Items | 152 | 0 | 0 | | 0 | 0 | 0 | | 2,652 | 0 | 0 | | 0 | 10,607 | |
| Residential Demand Response | Devices | 19,550 | 98,388 | 171,733 | | 10,947 | 49,038 | 93,076 | | 24,870 | 359,408 | 390,303 | | 0 | 774,582 | |
| Residential Demand Response (IHD) | Devices | 0 | 49,689 | 133,657 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | |
| Residential New Construction | Homes | 26 | 19 | 86 | | 0 | 2 | 18 | | 743 | 17,152 | 163,690 | | 20 | 381,811 | |
| Consumer Program Total | | | | | | 49,681 | 72,377 | 116,886 | | 133,520,941 | 75,796,859 | 70,049,807 | | 85,506 | 900,058,189 | |
| Business Program | | | | | | | | | | | | | | | | |
| Retrofit | Projects | 2,819 | 6,134 | 8,785 | | 24,467 | 61,147 | 59,678 | | 136,002,258 | 314,922,468 | 345,346,008 | | 142,831 | 2,168,497,702 | |
| Direct Install Lighting | Projects | 20,741 | 18,691 | 17,782 | | 23,724 | 15,284 | 18,708 | | 61,076,701 | 57,345,798 | 64,315,558 | | 49,886 | 519,693,356 | |
| Building Commissioning | Buildings | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | |
| New Construction | Buildings | 22 | 69 | 86 | | 123 | 764 | 1,584 | | 411,717 | 1,814,721 | 4,959,266 | | 2,472 | 17,009,564 | |
| Energy Audit | Audits | 198 | 345 | 319 | | 0 | 1,450 | 2,811 | | 0 | 7,049,351 | 15,455,795 | | 4,261 | 52,059,644 | |
| Small Commercial Demand Response | Devices | 132 | 294 | 1,211 | | 84 | 187 | 773 | | 157 | 1,068 | 373 | | 0 | 1,597 | |
| Small Commercial Demand Response (IHD) | Devices | 0 | 0 | 378 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | |
| Demand Response 3 | Facilities | 145 | 151 | 175 | | 16,218 | 19,389 | 23,706 | | 633,421 | 281,823 | 346,659 | | 0 | 1,261,903 | |
| Business Program Total | | | | | | 64,617 | 98,221 | 107,261 | | 198,124,253 | 381,415,230 | 430,423,659 | | 199,449 | 2,758,523,766 | |
| Industrial Program | | | | | | | | | | | | | | | | |
| Process & System Upgrades | Projects | 0 | 0 | 3 | | 0 | 0 | 294 | | 0 | 0 | 2,603,764 | | 294 | 5,207,528 | |
| Monitoring & Targeting | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | |
| Energy Manager | Projects | 0 | 42 | 205 | | 0 | 1,086 | 3,558 | | 0 | 7,372,108 | 21,994,263 | | 3,194 | 54,888,570 | |
| Retrofit | Projects | 433 | 0 | 0 | | 4,615 | 0 | 0 | | 28,866,840 | 0 | 0 | | 4,613 | 115,462,282 | |
| Demand Response 3 | Facilities | 124 | 185 | 281 | | 52,484 | 74,056 | 162,543 | | 3,080,737 | 1,784,712 | 4,309,160 | | 0 | 9,174,609 | |
| Industrial Program Total | | | | | | 57,098 | 75,141 | 166,395 | | 31,947,577 | 9,156,820 | 28,907,187 | | 8,101 | 184,732,989 | |
| Home Assistance Program | | | | | | | | | | | | | | | | |
| Home Assistance Program | Homes | 46 | 5,033 | 26,756 | | 2 | 566 | 2,361 | | 39,283 | 5,442,232 | 20,987,275 | | 2,904 | 57,949,913 | |
| Home Assistance Program Total | | | | | | 2 | 566 | 2,361 | | 39,283 | 5,442,232 | 20,987,275 | | 2,904 | 57,949,913 | |
| Aboriginal Program | | | | | | | | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | 584 | | 0 | 0 | 267 | | 0 | 0 | 1,609,393 | | 267 | 3,218,786 | |
| Direct Install Lighting | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | |
| Aboriginal Program Total | | | | | | 0 | 0 | 267 | | 0 | 0 | 1,609,393 | | 267 | 3,218,786 | |
| Pre-2011 Programs completed in 2011 | | | | | | | | | | | | | | | | |
| Electricity Retrofit Incentive Program | Projects | 2,028 | 0 | 0 | | 21,662 | 0 | 0 | | 121,138,219 | 0 | 0 | | 21,662 | 484,552,876 | |
| High Performance New Construction | Projects | 179 | 69 | 4 | | 5,098 | 3,251 | 772 | | 26,185,591 | 11,901,944 | 3,522,240 | | 9,121 | 147,492,677 | |
| Toronto Comprehensive | Projects | 577 | 0 | 0 | | 15,805 | 0 | 0 | | 86,964,886 | 0 | 0 | | 15,805 | 347,859,545 | |
| Multifamily Energy Efficiency Rebates | Projects | 110 | 0 | 0 | | 1,981 | 0 | 0 | | 7,595,683 | 0 | 0 | | 1,981 | 30,382,733 | |
| LDC Custom Programs | Projects | 8 | 0 | 0 | | 399 | 0 | 0 | | 1,367,170 | 0 | 0 | | 399 | 5,468,679 | |
| Pre-2011 Programs completed in 2011 Total | | | | | | 44,945 | 3,251 | 772 | | 243,251,550 | 11,901,944 | 3,522,240 | | 48,967 | 1,015,756,510 | |
| Other | | | | | | | | | | | | | | | | |
| Program Enabled Savings | Projects | 14 | 56 | 13 | | 0 | 2,304 | 3,692 | | 0 | 1,188,362 | 4,075,382 | | 5,996 | 11,715,850 | |
| Time-of-Use Savings | Homes | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | |
| Other Total | | | | | | 0 | 2,304 | 3,692 | | 0 | 1,188,362 | 4,075,382 | | 5,996 | 11,715,850 | |
| Adjustments to 2011 Verified Results | | | | | | | | | | | | | | | | |
| Adjustments to 2012 Verified Results | | | | | | | | | | | | | | | | |
| Energy Efficiency Total | | | | | | 136,610 | 109,191 | 117,536 | | 603,144,419 | 482,474,435 | 554,528,447 | | 351,190 | 4,920,743,312 | |
| Demand Response Total (Scenario 1) | | | | | | 79,733 | 142,670 | 280,099 | | 3,739,185 | 2,427,011 | 5,046,495 | | 0 | 11,212,691 | |
| Adjustments to Previous Years' Verified Results Total | | | | | | 0 | 1,406 | 6,901 | | 0 | 18,689,081 | 43,684,221 | | 7,976 | 207,151,978 | |
| OPA-Contracted LDC Portfolio Total (inc. Adjustments) | | | | | | 216,343 | 253,267 | 404,536 | | 606,883,604 | 503,590,526 | 603,259,163 | | 359,166 | 5,139,107,980 | |
| Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively). | | | | | | Full OEB Target: | | | | | | | | | 1,330,000 | 6,000,000,000 |
| The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available. | | | | | | % of Full OEB Target Achieved to Date (Scenario 1): | | | | | | | | | 27.0% | 85.7% |

Table 7: Adjustments to Province-Wide Net Verified Results due to Variances

| Initiative | Unit | Incremental Activity (new program activity occurring within the specified reporting period) | | | | Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period) | | | | Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period) | | | |
|---|------------|--|-------|------|------|---|-------|------|------|--|------------|------|------|
| | | 2011* | 2012* | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 |
| Consumer Program | | | | | | | | | | | | | |
| Appliance Retirement | Appliances | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Appliance Exchange | Appliances | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| HVAC Incentives | Equipment | -18,844 | 2,206 | | | -5,271 | 452 | | | -9,709,500 | 907,735 | | |
| Conservation Instant Coupon Booklet | Items | 8,216 | 0 | | | 16 | 0 | | | 275,655 | 0 | | |
| Bi-Annual Retailer Event | Items | 81,817 | 0 | | | 108 | 0 | | | 2,183,391 | 0 | | |
| Retailer Co-op | Items | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Residential Demand Response | Devices | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Residential Demand Response (IHD) | Devices | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Residential New Construction | Homes | 19 | 0 | | | 1 | 0 | | | 13,767 | 0 | | |
| Consumer Program Total | | | | | | -5,146 | 452 | | | -7,236,687 | 907,735 | | |
| Business Program | | | | | | | | | | | | | |
| Retrofit | Projects | 303 | 529 | | | 3,204 | 4,443 | | | 16,216,165 | 28,739,635 | | |
| Direct Install Lighting | Projects | 444 | 197 | | | 501 | 204 | | | 1,250,388 | 736,541 | | |
| Building Commissioning | Buildings | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| New Construction | Buildings | 12 | 0 | | | 828 | 0 | | | 3,520,620 | 0 | | |
| Energy Audit | Audits | 95 | 65 | | | 492 | 337 | | | 2,391,744 | 1,636,457 | | |
| Small Commercial Demand Response | Devices | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Small Commercial Demand Response (IHD) | Devices | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Demand Response 3 | Facilities | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Business Program Total | | | | | | 5,025 | 4,984 | | | 23,378,917 | 31,112,632 | | |
| Industrial Program | | | | | | | | | | | | | |
| Process & System Upgrades | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Monitoring & Targeting | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Energy Manager | Projects | 0 | 3 | | | 0 | 68 | | | 0 | 719,235 | | |
| Retrofit | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Demand Response 3 | Facilities | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Industrial Program Total | | | | | | 0 | 68 | | | 0 | 719,235 | | |
| Home Assistance Program | | | | | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Home Assistance Program Total | | | | | | 0 | 0 | | | 0 | 0 | | |
| Aboriginal Program | | | | | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Direct Install Lighting | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Aboriginal Program Total | | | | | | 0 | 0 | | | 0 | 0 | | |
| Pre-2011 Programs completed in 2011 | | | | | | | | | | | | | |
| Electricity Retrofit Incentive Program | Projects | 12 | 0 | | | 138 | 0 | | | 545,536 | 0 | | |
| High Performance New Construction | Projects | 34 | 0 | | | 1,407 | 0 | | | 2,065,200 | 0 | | |
| Toronto Comprehensive | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Multifamily Energy Efficiency Rebates | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| LDC Custom Programs | Projects | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Pre-2011 Programs completed in 2011 Total | | | | | | 1,545 | 0 | | | 2,610,736 | 0 | | |
| Other | | | | | | | | | | | | | |
| Program Enabled Savings | Projects | 14 | 40 | | | 624 | 824 | | | 1,673,712 | 9,927,473 | | |
| Time-of-Use Savings | Homes | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | |
| Other Total | | | | | | 624 | 824 | | | 1,673,712 | 9,927,473 | | |
| Adjustments to 2011 Verified Results | | | | | | 2,047 | | | | 20,426,678 | | | |
| Adjustments to 2012 Verified Results | | | | | | | 6,328 | | | | 42,667,076 | | |
| Adjustments to Previous Years' Verified Results Total | | | | | | 2,047 | 6,328 | | | 20,426,678 | 42,667,076 | | |

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above does not consider persistence of savings

Table 8: Province-Wide Realization Rate & NTG

| Initiative | Peak Demand Savings | | | | | | | | Energy Savings | | | | | | | |
|--|---------------------|------|------|------|--------------------|------|------|------|------------------|------|------|------|--------------------|------|------|------|
| | Realization Rate | | | | Net-to-Gross Ratio | | | | Realization Rate | | | | Net-to-Gross Ratio | | | |
| | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 |
| Consumer Program | | | | | | | | | | | | | | | | |
| Appliance Retirement | 1.00 | 1.00 | 1.00 | | 0.51 | 0.46 | 0.42 | | 1.00 | 1.00 | 1.00 | | 0.46 | 0.47 | 0.44 | |
| Appliance Exchange | 1.00 | 1.00 | 1.00 | | 0.51 | 0.52 | 0.53 | | 1.00 | 1.00 | 1.00 | | 0.52 | 0.52 | 0.53 | |
| HVAC Incentives | 1.00 | 1.00 | 1.00 | | 0.60 | 0.50 | 0.48 | | 1.00 | 1.00 | 1.00 | | 0.50 | 0.49 | 0.48 | |
| Conservation Instant Coupon Booklet | 1.00 | 1.00 | 1.00 | | 1.14 | 1.00 | 1.11 | | 1.00 | 1.00 | 1.00 | | 1.00 | 1.05 | 1.13 | |
| Bi-Annual Retailer Event | 1.00 | 1.00 | 1.00 | | 1.12 | 0.91 | 1.04 | | 1.00 | 1.00 | 1.00 | | 0.91 | 0.92 | 1.04 | |
| Retailer Co-op | 1.00 | n/a | n/a | | 0.68 | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Residential Demand Response | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Residential Demand Response (IHD) | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Residential New Construction | 1.00 | 3.65 | 0.78 | | 0.41 | 0.49 | 0.63 | | 3.65 | 7.17 | 3.09 | | 0.49 | 0.49 | 0.63 | |
| Business Program | | | | | | | | | | | | | | | | |
| Retrofit | 1.06 | 0.93 | 0.92 | | 0.72 | 0.75 | 0.73 | | 0.93 | 1.05 | 1.01 | | 0.75 | 0.76 | 0.73 | |
| Direct Install Lighting | 1.08 | 0.69 | 0.82 | | 1.08 | 0.94 | 0.94 | | 0.69 | 0.85 | 0.84 | | 0.94 | 0.94 | 0.94 | |
| Building Commissioning | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| New Construction | 0.50 | 0.98 | 0.68 | | 0.50 | 0.49 | 0.54 | | 0.98 | 0.99 | 0.76 | | 0.49 | 0.49 | 0.54 | |
| Energy Audit | n/a | n/a | 1.02 | | n/a | n/a | 0.66 | | n/a | n/a | 0.97 | | n/a | n/a | 0.66 | |
| Small Commercial Demand Response | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Small Commercial Demand Response (IHD) | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Demand Response 3 | 0.76 | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Industrial Program | | | | | | | | | | | | | | | | |
| Process & System Upgrades | n/a | n/a | 0.85 | | n/a | n/a | 0.94 | | n/a | n/a | 0.87 | | n/a | n/a | 0.93 | |
| Monitoring & Targeting | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Energy Manager | n/a | 1.16 | 0.90 | | n/a | 0.90 | 0.90 | | 1.16 | 1.16 | 0.90 | | 0.90 | 0.90 | 0.90 | |
| Retrofit | 1.11 | n/a | n/a | | 0.72 | n/a | n/a | | 0.91 | n/a | n/a | | 0.75 | n/a | n/a | |
| Demand Response 3 | 0.84 | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Home Assistance Program | | | | | | | | | | | | | | | | |
| Home Assistance Program | 1.00 | 0.32 | 0.26 | | 0.70 | 1.00 | 1.00 | | 0.32 | 0.99 | 0.88 | | 1.00 | 1.00 | 1.00 | |
| Aboriginal Program | | | | | | | | | | | | | | | | |
| Home Assistance Program | n/a | n/a | 0.05 | | n/a | n/a | 1.00 | | n/a | n/a | 0.95 | | n/a | n/a | 1.00 | |
| Direct Install Lighting | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Pre-2011 Programs completed in 2011 | | | | | | | | | | | | | | | | |
| Electricity Retrofit Incentive Program | 0.80 | n/a | n/a | | 0.54 | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| High Performance New Construction | 1.00 | 1.00 | 1.00 | | 0.49 | 0.50 | 0.50 | | 1.00 | 1.00 | 1.00 | | 0.50 | 0.50 | 0.50 | |
| Toronto Comprehensive | 1.13 | n/a | n/a | | 0.50 | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Multifamily Energy Efficiency Rebates | 0.93 | n/a | n/a | | 0.78 | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| LDC Custom Programs | 1.00 | n/a | n/a | | 1.00 | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |
| Other | | | | | | | | | | | | | | | | |
| Program Enabled Savings | n/a | 1.06 | 1.00 | | n/a | 1.00 | 1.00 | | 1.06 | 2.26 | 1.00 | | 1.00 | 1.00 | 1.00 | |
| Time-of-Use Savings | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | | n/a | n/a | n/a | |

Energy Manager, Aboriginal Program and Program Enabled Savings were not independently evaluated

Summary Provincial Progress Towards CDM Targets

Table 9: Province-Wide Net Peak Demand Savings at the End User Level (MW)

| Implementation Period | Annual | | | |
|---|--------|-------|-------|--------------|
| | 2011 | 2012 | 2013 | 2014 |
| 2011 | 216.3 | 136.6 | 135.8 | 129.0 |
| 2012† | 1.4 | 253.3 | 109.8 | 108.2 |
| 2013† | 0.6 | 7.0 | 404.5 | 122.0 |
| 2014 | | | | |
| Verified Net Annual Peak Demand Savings in 2014: | | | | 359.2 |
| 2014 Annual CDM Capacity Target: | | | | 1,330 |
| Verified Portion of Peak Demand Savings Target Achieved in 2014 (%): | | | | 27.0% |

Table 10: Province-Wide Net Energy Savings at the End-User Level (GWh)

| Implementation Period | Annual | | | | Cumulative |
|---|--------|-------|-------|-------|----------------|
| | 2011 | 2012 | 2013 | 2014 | 2011-2014 |
| 2011 | 606.9 | 603.0 | 601.0 | 582.3 | 2,393.1 |
| 2012† | 18.7 | 503.6 | 498.4 | 492.6 | 1,513.3 |
| 2013† | 1.7 | 44.4 | 603.3 | 583.4 | 1,232.8 |
| 2014 | | | | | |
| Verified Net Cumulative Energy Savings 2011-2014: | | | | | 5,139.1 |
| 2011-2014 Cumulative CDM Energy Target: | | | | | 6,000 |
| Verified Portion of Cumulative Energy Target Achieved in 2014 (%): | | | | | 85.7% |

†Includes adjustments to previous Years' verified results

METHODOLOGY

All results are at the end-user level (not including transmission and distribution losses)

| EQUATIONS | |
|---|--|
| Prescriptive Measures and Projects | Gross Savings = Activity * Per Unit Assumption Net Savings = Gross Savings * Net-to-Gross Ratio All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed) |
| Engineered and Custom Projects | Gross Savings = Reported Savings * Realization Rate Net Savings = Gross Savings * Net-to-Gross Ratio All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed) |
| Demand Response | Peak Demand: Gross Savings = Net Savings = contracted MW at contributor level * Provincial contracted to ex ante ratio Energy: Gross Savings = Net Savings = provincial ex post energy savings * LDC proportion of total provincial contracted MW All savings are annualized (i.e. the savings are the same regardless of the time of year a participant began offering DR) |
| Adjustments to Previous Years' Verified Results | All variances from the Final Annual Results Reports from prior years will be adjusted within this report. Any variances with regards to projects counts, data lag, and calculations etc., will be made within this report. Considers the cumulative effect of energy savings. |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|-------------------------|--|---|---|
| Consumer Program | | | |
| Appliance Retirement | Includes both retail and home pickup stream; Retail stream allocated based on average of 2008 & 2009 residential throughput; Home pickup stream directly attributed by postal code or customer selection. | Savings are considered to begin in the year the appliance is picked up. | Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level. |
| Appliance Exchange | When postal code information is provided by customer, results are directly attributed to the LDC. When postal code is not available, results allocated based on average of 2008 & 2009 residential throughput. | Savings are considered to begin in the year that the exchange event occurred. | |
| HVAC Incentives | Results directly attributed to LDC based on customer postal code. | Savings are considered to begin in the year that the installation occurred. | |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|-------------------------------------|---|---|---|
| Conservation Instant Coupon Booklet | LDC-coded coupons directly attributed to LDC; Otherwise results are allocated based on average of 2008 & 2009 residential throughput. | Savings are considered to begin in the year in which the coupon was redeemed. | Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level. |
| Bi-Annual Retailer Event | Results are allocated based on average of 2008 & 2009 residential throughput. | Savings are considered to begin in the year in which the event occurs. | |
| Retailer Co-op | When postal code information is provided by the customer, results are directly attributed. If postal code information is not available, results are allocated based on average of 2008 & 2009 residential throughput. | Savings are considered to begin in the year of the home visit and installation date. | Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level. |
| Residential Demand Response | Results are directly attributed to LDC based on data provided to OPA through project completion reports and continuing participant lists. | Savings are considered to begin in the year the device was installed and/or when a customer signed a peaksaver PLUS™ participant agreement. | Peak demand savings are based on an ex ante estimate assuming a 1 in 10 weather year and represents the "insurance value" of the initiative. Energy savings are based on an ex post estimate which reflects the savings that occurred as a result of activations in the year and accounts for any "snapback" in energy consumption experienced after the event. Savings are assumed to persist for only 1 year, reflecting that savings will only occur if the resource is activated. |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|-----------------------------------|--|---|---|
| Residential New Construction | Results are directly attributed to LDC based on LDC identified in application in the saveONenergy CRM system; Initiative was not evaluated in 2011, reported results are presented with forecast assumptions as per the business case. | Savings are considered to begin in the year of the project completion date. | Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level. |
| Business Program | | | |
| Efficiency: Equipment Replacement | Results are directly attributed to LDC based on LDC identified at the facility level in the saveONenergy CRM; Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see page for Building type to Sector mapping. | Savings are considered to begin in the year of the actual project completion date on the iCON CRM system. | Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON CRM system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track). |
| | Additional Note: project counts were derived by filtering out invalid statuses (e.g. Post-Project Submission - Payment denied by LDC) and only including projects with an "Actual Project Completion Date" in 2013) | | |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|---|---|--|--|
| Direct Installed Lighting | Results are directly attributed to LDC based on the LDC specified on the work order. | Savings are considered to begin in the year of the actual project completion date. | Peak demand and energy savings are determined using the verified measure level per unit assumptions multiplied by the uptake of each measure accounting for the realization rate for both peak demand and energy to reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings take into account net-to-gross factors such as free-ridership and spillover for both peak demand and energy savings at the program level (net). |
| Existing Building Commissioning Incentive | Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated, no completed projects in 2011 or 2012. | Savings are considered to begin in the year of the actual project completion date. | Peak demand and energy savings are determined by the total savings for a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). |
| New Construction and Major Renovation Incentive | Results are directly attributed to LDC based on LDC identified in the application. | Savings are considered to begin in the year of the actual project completion date. | |
| Energy Audit | Projects are directly attributed to LDC based on LDC identified in the application. | Savings are considered to begin in the year of the audit date. | Peak demand and energy savings are determined by the total savings resulting from an audit as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|---|--|---|--|
| Commercial Demand Response (part of the Residential program schedule) | Results are directly attributed to LDC based on data provided to OPA through project completion reports and continuing participant lists | Savings are considered to begin in the year the device was installed and/or when a customer signed a peaksaver PLUS™ participant agreement. | Peak demand savings are based on an ex ante estimate assuming a 1 in 10 weather year and represents the "insurance value" of the initiative. Energy savings are based on an ex post estimate which reflects the savings that occurred as a result of activations in the year. Savings are assumed to persist for only 1 year, reflecting that savings will only occur if the resource is activated. |
| Demand Response 3 (part of the Industrial program schedule) | Results are attributed to LDCs based on the total contracted megawatts at the contributor level as of December 31st, applying the provincial ex ante to contracted ratio (ex ante estimate/contracted megawatts); Ex post energy savings are attributed to the LDC based on their proportion of the total contracted megawatts at the contributor level. | Savings are considered to begin in the year in which the contributor signed up to participate in demand response. | Peak demand savings are ex ante estimates based on the load reduction capability that can be expected for the purposes of planning. The ex ante estimates factor in both scheduled non-performances (i.e. maintenance) and historical performance. Energy savings are based on an ex post estimate which reflects the savings that actually occurred as a results of activations in the year. Savings are assumed to persist for 1 year, reflecting that savings will not occur if the resource is not activated and additional costs are incurred to activate the resource. |
| Industrial Program | | | |
| Process & System Upgrades | Results are directly attributed to LDC based on LDC identified in application. | Savings are considered to begin in the year in which the incentive project was completed. | Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|------------------------|---|--|---|
| Monitoring & Targeting | Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated, no completed projects in 2011, 2012 or 2013. | Savings are considered to begin in the year in which the incentive project was completed. | Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). |
| Energy Manager | Results are directly attributed to LDC based on LDC identified in the application. | Savings are considered to begin in the year in which the project was completed by the energy manager. If no date is specified the savings will begin the year of the Quarterly Report submitted by the energy manager. | Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|---|--|---|---|
| Efficiency: Equipment Replacement Incentive (part of the C&I program schedule) | Results are directly attributed to LDC based on LDC identified at the facility level in the saveONenergy CRM; Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see "Reference Tables" tab for Building type to Sector mapping. | Savings are considered to begin in the year of the actual project completion date on the iCON CRM system. | Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON CRM system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track). |
| Demand Response 3 | Results are attributed to LDCs based on the total contracted megawatts at the contributor level as of December 31st, applying the provincial ex ante to contracted ratio (ex ante estimate/contracted megawatts); Ex post energy savings are attributed to the LDC based on their proportion of the total contracted megawatts at the contributor level. | Savings are considered to begin in the year in which the contributor signed up to participate in demand response. | Peak demand savings are ex ante estimates based on the load reduction capability that can be expected for the purposes of planning. The ex ante estimates factor in both scheduled non-performances (i.e. maintenance) and historical performance. Energy savings are based on an ex post estimate which reflects the savings that actually occurred as a results of activations in the year. Savings are assumed to persist for 1 year, reflecting that savings will not occur if the resource is not activated and additional costs are incurred to activate the resource. |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|--------------------------------|--|---|---|
| Home Assistance Program | | | |
| Home Assistance Program | Results are directly attributed to LDC based on LDC identified in the application. | Savings are considered to begin in the year in which the measures were installed. | Peak demand and energy savings are determined using the measure level per unit assumption multiplied by the uptake of each measure (gross), taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level. |
| Aboriginal Program | | | |
| Aboriginal Program | Results are directly attributed to LDC based on LDC identified in the application. | Savings are considered to begin in the year in which the measures were installed. | Peak demand and energy savings are determined using the measure level per unit assumption multiplied by the uptake of each measure (gross), taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level. |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|--|--|---|---|
| Pre-2011 Programs completed in 2011 | | | |
| Electricity Retrofit Incentive Program | Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 2012 or 2013 assumptions as per 2010 evaluation. | Savings are considered to begin in the year in which a project was completed. | Peak demand and energy savings are determined by the total savings from a given project as reported. A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). If energy savings are not available, an estimate is made based on the kWh to kW ratio in the provincial results from the 2010 evaluated results (http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports). |
| High Performance New Construction | Results are directly attributed to LDC based on customer data provided to the OPA from Enbridge; Initiative was not evaluated in 2011, 2012 or 2013, assumptions as per 2010 evaluation. | Savings are considered to begin in the year in which a project was completed. | |
| Toronto Comprehensive | Program run exclusively in Toronto Hydro-Electric System Limited service territory; Initiative was not evaluated in 2011, 2012 or 2013, assumptions as per 2010 evaluation. | | |

| Initiative | Attributing Savings to LDCs | Savings 'start' Date | Calculating Resource Savings |
|---------------------------------------|--|---|---|
| Multifamily Energy Efficiency Rebates | Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 2012 or 2013, assumptions as per 2010 evaluation. | Savings are considered to begin in the year in which a project was completed. | Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). If energy savings are not available, an estimate is made based on the kWh to kW ratio in the provincial results from the 2010 evaluated results (http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports). |
| Data Centre Incentive Program | Program run exclusively in PowerStream Inc. service territory; Initiative was not evaluated in 2011, assumptions as per 2009 evaluation. | | |
| EnWin Green Suites | Program run exclusively in ENWIN Utilities Ltd. service territory; Initiative was not evaluated in 2011 or 2012, assumptions as per 2010 evaluation. | | |

Retrofit Sector (C&I vs. Industrial Mapping)

| Building Type | Sector |
|--|------------|
| Agribusiness - Cattle Farm | C&I |
| Agribusiness - Dairy Farm | C&I |
| Agribusiness - Greenhouse | C&I |
| Agribusiness - Other | C&I |
| Agribusiness - Other,Mixed-Use - Office/Retail | C&I |
| Agribusiness - Other,Office,Retail,Warehouse | C&I |
| Agribusiness - Other,Office,Warehouse | C&I |
| Agribusiness - Poultry | C&I |
| Agribusiness - Poultry,Hospitality - Motel | C&I |
| Agribusiness - Swine | C&I |
| Convenience Store | C&I |
| Education - College / Trade School | C&I |
| Education - College / Trade School,Multi-Residential - Condominium | C&I |
| Education - College / Trade School,Multi-Residential - Rental Apartment | C&I |
| Education - College / Trade School,Retail | C&I |
| Education - Primary School | C&I |
| Education - Primary School,Education - Secondary School | C&I |
| Education - Primary School,Multi-Residential - Rental Apartment | C&I |
| Education - Primary School,Not-for-Profit | C&I |
| Education - Secondary School | C&I |
| Education - University | C&I |
| Education - University,Office | C&I |
| Hospital/Healthcare - Clinic | C&I |
| Hospital/Healthcare - Clinic,Hospital/Healthcare - Long-term Care,Hospital/Healthcare - Medical Building | C&I |
| Hospital/Healthcare - Clinic,Industrial | C&I |
| Hospital/Healthcare - Clinic,Retail | C&I |
| Hospital/Healthcare - Long-term Care | C&I |
| Hospital/Healthcare - Long-term Care,Hospital/Healthcare - Medical Building | C&I |
| Hospital/Healthcare - Medical Building | C&I |
| Hospital/Healthcare - Medical Building,Mixed-Use - Office/Retail | C&I |
| Hospital/Healthcare - Medical Building,Mixed-Use - Office/Retail,Office | C&I |
| Hospitality - Hotel | C&I |
| Hospitality - Hotel,Restaurant - Dining | C&I |
| Hospitality - Motel | C&I |
| Industrial | Industrial |
| Mixed-Use - Office/Retail | C&I |
| Mixed-Use - Office/Retail,Industrial | Industrial |
| Mixed-Use - Office/Retail,Mixed-Use - Other | C&I |
| Mixed-Use - Office/Retail,Mixed-Use - Other,Not-for-Profit,Warehouse | C&I |
| Mixed-Use - Office/Retail,Mixed-Use - Residential/Retail | C&I |
| Mixed-Use - Office/Retail,Office,Restaurant - Dining,Restaurant - Quick Serve,Retail,Warehouse | C&I |

| | |
|---|------------|
| Mixed-Use - Office/Retail,Office,Warehouse | C&I |
| Mixed-Use - Office/Retail,Retail | C&I |
| Mixed-Use - Office/Retail,Warehouse | C&I |
| Mixed-Use - Office/Retail,Warehouse,Industrial | Industrial |
| Mixed-Use - Other | C&I |
| Mixed-Use - Other,Industrial | Industrial |
| Mixed-Use - Other,Not-for-Profit,Office | C&I |
| Mixed-Use - Other,Office | C&I |
| Mixed-Use - Other,Other: Please specify | C&I |
| Mixed-Use - Other,Retail,Warehouse | C&I |
| Mixed-Use - Other,Warehouse | C&I |
| Mixed-Use - Residential/Retail | C&I |
| Mixed-Use - Residential/Retail,Multi-Residential - Condominium | C&I |
| Mixed-Use - Residential/Retail,Multi-Residential - Rental Apartment | C&I |
| Mixed-Use - Residential/Retail,Retail | C&I |
| Multi-Residential - Condominium | C&I |
| Multi-Residential - Condominium,Multi-Residential - Rental Apartment | C&I |
| Multi-Residential - Condominium,Other: Please specify | C&I |
| Multi-Residential - Rental Apartment | C&I |
| Multi-Residential - Rental Apartment,Multi-Residential - Social Housing Provider,Not-for-Profit | C&I |
| Multi-Residential - Rental Apartment,Not-for-Profit | C&I |
| Multi-Residential - Rental Apartment,Warehouse | C&I |
| Multi-Residential - Social Housing Provider | C&I |
| Multi-Residential - Social Housing Provider,Industrial | C&I |
| Multi-Residential - Social Housing Provider,Not-for-Profit | C&I |
| Not-for-Profit | C&I |
| Not-for-Profit,Office | C&I |
| Not-for-Profit,Other: Please specify | C&I |
| Not-for-Profit,Warehouse | C&I |
| Office | C&I |
| Office,Industrial | Industrial |
| Office,Other: Please specify | C&I |
| Office,Other: Please specify,Warehouse | C&I |
| Office,Restaurant - Dining | C&I |
| Office,Restaurant - Dining,Industrial | Industrial |
| Office,Retail | C&I |
| Office,Retail,Industrial | C&I |
| Office,Retail,Warehouse | C&I |
| Office,Warehouse | C&I |
| Office,Warehouse,Industrial | Industrial |
| Other: Please specify | C&I |
| Other: Please specify,Industrial | Industrial |
| Other: Please specify,Retail | C&I |
| Other: Please specify,Warehouse | C&I |
| Restaurant - Dining | C&I |
| Restaurant - Dining,Retail | C&I |

| | |
|---------------------------------|------------|
| Restaurant - Quick Serve | C&I |
| Restaurant - Quick Serve,Retail | C&I |
| Retail | C&I |
| Retail,Industrial | Industrial |
| Retail,Warehouse | C&I |
| Warehouse | C&I |
| Warehouse,Industrial | Industrial |

Consumer Program Allocation Methodology

Results can be allocated based on average of 2008 & 2009 residential throughput for each LDC (below) when additional information is not available. Source: OEB Yearbook Data 2008 & 2009

| Local Distribution Company | Allocation |
|--|------------|
| Algoma Power Inc. | 0.2% |
| Atikokan Hydro Inc. | 0.0% |
| Attawapiskat Power Corporation | 0.0% |
| Bluewater Power Distribution Corporation | 0.6% |
| Brant County Power Inc. | 0.2% |
| Brantford Power Inc. | 0.7% |
| Burlington Hydro Inc. | 1.4% |
| Cambridge and North Dumfries Hydro Inc. | 1.0% |
| Canadian Niagara Power Inc. | 0.5% |
| Centre Wellington Hydro Ltd. | 0.1% |
| Chapleau Public Utilities Corporation | 0.0% |
| COLLUS Power Corporation | 0.3% |
| Cooperative Hydro Embrun Inc. | 0.0% |
| E.L.K. Energy Inc. | 0.2% |
| Enersource Hydro Mississauga Inc. | 3.9% |
| ENTEGRUS | 0.6% |
| ENWIN Utilities Ltd. | 1.6% |
| Erie Thames Powerlines Corporation | 0.4% |
| Espanola Regional Hydro Distribution Corporation | 0.1% |
| Essex Powerlines Corporation | 0.7% |
| Festival Hydro Inc. | 0.3% |
| Fort Albany Power Corporation | 0.0% |
| Fort Frances Power Corporation | 0.1% |
| Greater Sudbury Hydro Inc. | 1.0% |
| Grimsby Power Inc. | 0.2% |
| Guelph Hydro Electric Systems Inc. | 0.9% |
| Haldimand County Hydro Inc. | 0.4% |
| Halton Hills Hydro Inc. | 0.5% |
| Hearst Power Distribution Company Limited | 0.1% |
| Horizon Utilities Corporation | 4.0% |
| Hydro 2000 Inc. | 0.0% |
| Hydro Hawkesbury Inc. | 0.1% |
| Hydro One Brampton Networks Inc. | 2.8% |
| Hydro One Networks Inc. | 30.0% |

| | |
|---|-------|
| Hydro Ottawa Limited | 5.6% |
| Innisfil Hydro Distribution Systems Limited | 0.4% |
| Kashechewan Power Corporation | 0.0% |
| Kenora Hydro Electric Corporation Ltd. | 0.1% |
| Kingston Hydro Corporation | 0.5% |
| Kitchener-Wilmot Hydro Inc. | 1.6% |
| Lakefront Utilities Inc. | 0.2% |
| Lakeland Power Distribution Ltd. | 0.2% |
| London Hydro Inc. | 2.7% |
| Middlesex Power Distribution Corporation | 0.1% |
| Midland Power Utility Corporation | 0.1% |
| Milton Hydro Distribution Inc. | 0.6% |
| Newmarket - Tay Power Distribution Ltd. | 0.7% |
| Niagara Peninsula Energy Inc. | 1.0% |
| Niagara-on-the-Lake Hydro Inc. | 0.2% |
| Norfolk Power Distribution Inc. | 0.3% |
| North Bay Hydro Distribution Limited | 0.5% |
| Northern Ontario Wires Inc. | 0.1% |
| Oakville Hydro Electricity Distribution Inc. | 1.5% |
| Orangeville Hydro Limited | 0.2% |
| Orillia Power Distribution Corporation | 0.3% |
| Oshawa PUC Networks Inc. | 1.2% |
| Ottawa River Power Corporation | 0.2% |
| Parry Sound Power Corporation | 0.1% |
| Peterborough Distribution Incorporated | 0.7% |
| PowerStream Inc. | 6.6% |
| PUC Distribution Inc. | 0.9% |
| Renfrew Hydro Inc. | 0.1% |
| Rideau St. Lawrence Distribution Inc. | 0.1% |
| Sioux Lookout Hydro Inc. | 0.1% |
| St. Thomas Energy Inc. | 0.3% |
| Thunder Bay Hydro Electricity Distribution Inc. | 0.9% |
| Tillsonburg Hydro Inc. | 0.1% |
| Toronto Hydro-Electric System Limited | 12.8% |
| Veridian Connections Inc. | 2.4% |
| Wasaga Distribution Inc. | 0.2% |
| Waterloo North Hydro Inc. | 1.0% |
| Welland Hydro-Electric System Corp. | 0.4% |
| Wellington North Power Inc. | 0.1% |
| West Coast Huron Energy Inc. | 0.1% |
| Westario Power Inc. | 0.5% |
| Whitby Hydro Electric Corporation | 0.9% |
| Woodstock Hydro Services Inc. | 0.3% |

Reporting Glossary

Annual: the peak demand or energy savings that occur in a given year (includes resource savings from new program activity in a given year and resource savings persisting from previous years).

Cumulative Energy Savings: represents the sum of the annual energy savings that accrue over a defined period (in the context of this report the defined period is 2011 - 2014). This concept does not apply to peak demand savings.

End-User Level: resource savings in this report are measured at the customer level as opposed to the generator level (the difference being line losses).

Free-ridership: the percentage of participants who would have implemented the program measure or practice in the absence of the program.

Incremental: the new resource savings attributable to activity procured in a particular reporting period based on when the savings are considered to 'start'.

Initiative: a Conservation & Demand Management offering focusing on a particular opportunity or customer end-use (i.e. Retrofit, Fridge & Freezer Pickup).

Net-to-Gross Ratio: The ratio of net savings to gross savings, which takes into account factors such as free-ridership and spillover

Net Energy Savings (MWh): energy savings attributable to conservation and demand management activities net of free-riders, etc.

Net Peak Demand Savings (MW): peak demand savings attributable to conservation and demand management activities net of free-riders, etc.

Program: a group of initiatives that target a particular market sector (e.g. Consumer, Industrial).

Realization Rate: A comparison of observed or measured (evaluated) information to original reported savings which is used to adjust the gross savings estimates.

Settlement Account: the grouping of demand response facilities (contributors) into one contractual agreement

Spillover: Reductions in energy consumption and/or demand caused by the presence of the energy efficiency program, beyond the program-related gross savings of the participants. There can be participant and/or non-participant spillover.

Unit: for a specific initiative the relevant type of activity acquired in the market place (i.e. appliances picked up, projects completed, coupons redeemed).

Table 11: Toronto Hydro-Electric System Limited Initiative and Program Level Gross Savings by Year

| Initiative | Unit | Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period) | | | | Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period) | | | |
|---|------------|---|--------|---------|------|--|-------------|-------------|------|
| | | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 |
| Consumer Program | | | | | | | | | |
| Appliance Retirement** | Appliances | 751 | 161 | 216 | | 4,896,184 | 1,091,609 | 1,395,407 | |
| Appliance Exchange** | Appliances | 101 | 83 | 156 | | 112,306 | 143,607 | 278,659 | |
| HVAC Incentives | Equipment | 9,421 | 5,659 | 6,221 | | 17,547,359 | 9,728,761 | 10,883,754 | |
| Conservation Instant Coupon Booklet | Items | 133 | 30 | 59 | | 2,213,090 | 169,687 | 875,665 | |
| Bi-Annual Retailer Event | Items | 192 | 208 | 146 | | 3,442,548 | 3,739,819 | 2,104,149 | |
| Retailer Co-op | Items | 0 | 0 | 0 | | 339 | 0 | 0 | |
| Residential Demand Response | Devices | 743 | 22,940 | 34,491 | | 1,924 | 168,943 | 239,477 | |
| Residential Demand Response (IHD) | Devices | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Residential New Construction | Homes | 0 | 0 | 22 | | 0 | 0 | 167,971 | |
| Consumer Program Total | | 11,342 | 29,080 | 41,312 | | 28,213,749 | 15,042,427 | 15,945,082 | |
| Business Program | | | | | | | | | |
| Retrofit | Projects | 10,942 | 22,291 | 22,012 | | 59,789,306 | 108,932,749 | 127,698,424 | |
| Direct Install Lighting | Projects | 4,579 | 3,352 | 2,215 | | 13,659,691 | 11,273,244 | 7,308,716 | |
| Building Commissioning | Buildings | 0 | 0 | 0 | | 0 | 0 | 0 | |
| New Construction | Buildings | 0 | 8 | 137 | | 0 | 7,679 | 754,333 | |
| Energy Audit | Audits | 0 | 393 | 1,195 | | 0 | 1,913,395 | 6,524,651 | |
| Small Commercial Demand Response | Devices | 23 | 84 | 92 | | 84 | 478 | 119 | |
| Small Commercial Demand Response (IHD) | Devices | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Demand Response 3 | Facilities | 1,915 | 4,413 | 6,678 | | 75,010 | 64,142 | 98,839 | |
| Business Program Total | | 17,459 | 30,540 | 32,329 | | 73,524,091 | 122,191,688 | 142,385,082 | |
| Industrial Program | | | | | | | | | |
| Process & System Upgrades | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Monitoring & Targeting | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Energy Manager | Projects | 0 | 769 | 675 | | 0 | 5,526,412 | 3,829,673 | |
| Retrofit | Projects | 719 | 0 | 0 | | 3,974,681 | 0 | 0 | |
| Demand Response 3 | Facilities | 10,024 | 10,274 | 24,336 | | 588,385 | 247,610 | 564,746 | |
| Industrial Program Total | | 10,742 | 11,043 | 25,011 | | 4,563,066 | 5,774,022 | 4,394,418 | |
| Home Assistance Program | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 239 | 122 | | 0 | 788,226 | 1,620,650 | |
| Home Assistance Program Total | | 0 | 239 | 122 | | 0 | 788,226 | 1,620,650 | |
| Aboriginal Program | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Direct Install Lighting | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Aboriginal Program Total | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Pre-2011 Programs completed in 2011 | | | | | | | | | |
| Electricity Retrofit Incentive Program | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | |
| High Performance New Construction | Projects | 33 | 29 | 0 | | 168,988 | 28,022 | 0 | |
| Toronto Comprehensive | Projects | 33,467 | 0 | 0 | | 174,070,574 | 0 | 0 | |
| Multifamily Energy Efficiency Rebates | Projects | 2,443 | 0 | 0 | | 9,488,249 | 0 | 0 | |
| LDC Custom Programs | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Pre-2011 Programs completed in 2011 Total | | 35,943 | 29 | 0 | | 183,727,812 | 28,022 | 0 | |
| Other | | | | | | | | | |
| Program Enabled Savings | Projects | 0 | 0 | 3,513 | | 0 | 0 | 2,915,337 | |
| Time-of-Use Savings | Homes | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Other Total | | 0 | 0 | 3,513 | | 0 | 0 | 2,915,337 | |
| Adjustments to 2011 Verified Results | | 0 | 17 | 401 | | 0 | 4,645,167 | 216,431 | |
| Adjustments to 2012 Verified Results | | 0 | 0 | 2,056 | | 0 | 0 | 17,839,461 | |
| Energy Efficiency Total | | 62,780 | 33,220 | 36,689 | | 289,363,315 | 143,343,211 | 166,357,389 | |
| Demand Response Total | | 12,705 | 37,711 | 65,597 | | 665,403 | 481,174 | 903,181 | |
| Adjustments to Previous Years' Verified Results Total | | 0 | 17 | 2,457 | | 0 | 4,645,167 | 18,055,893 | |
| OPA-Contracted LDC Portfolio Total (inc. Adjustments) | | 75,486 | 70,948 | 104,743 | | 290,028,718 | 148,469,552 | 185,316,462 | |

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above does not consider persistence of savings

Gross results are presented for informational purposes only and are not considered official 2013 Final Verified Results
 **Net results substituted for gross results due to unavailability of data

Table 12: Adjustments to Toronto Hydro-Electric System Limited Gross Verified Results due to Variances

| Initiative | Unit | Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period) | | | | Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period) | | | |
|---|------------|---|-------|------|------|--|------------|------|------|
| | | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 |
| Consumer Program | | | | | | | | | |
| Appliance Retirement | Appliances | 0 | 0 | | | 0 | 0 | | |
| Appliance Exchange | Appliances | 0 | 0 | | | 0 | 0 | | |
| HVAC Incentives | Equipment | -1,433 | 159 | | | -2,629,958 | 282,613 | | |
| Conservation Instant Coupon Booklet | Items | 2 | 0 | | | 32,760 | 0 | | |
| Bi-Annual Retailer Event | Items | 15 | 0 | | | 303,774 | 0 | | |
| Retailer Co-op | Items | 0 | 0 | | | 0 | 0 | | |
| Residential Demand Response | Devices | 0 | 0 | | | 0 | 0 | | |
| Residential Demand Response (IHD) | Devices | 0 | 0 | | | 0 | 0 | | |
| Residential New Construction | Homes | 0 | 0 | | | 0 | 0 | | |
| Consumer Program Total | | -1,417 | 159 | | | -2,293,425 | 282,613 | | |
| Business Program | | | | | | | | | |
| Retrofit | Projects | 1,312 | 1,443 | | | 6,427,137 | 10,348,357 | | |
| Direct Install Lighting | Projects | 35 | 51 | | | 84,737 | 174,175 | | |
| Building Commissioning | Buildings | 0 | 0 | | | 0 | 0 | | |
| New Construction | Buildings | 0 | 0 | | | 0 | 0 | | |
| Energy Audit | Audits | 98 | 88 | | | 478,349 | 427,996 | | |
| Small Commercial Demand Response | Devices | 0 | 0 | | | 0 | 0 | | |
| Small Commercial Demand Response (IHD) | Devices | 0 | 0 | | | 0 | 0 | | |
| Demand Response 3 | Facilities | 0 | 0 | | | 0 | 0 | | |
| Business Program Total | | 1,445 | 1,582 | | | 6,990,222 | 10,950,528 | | |
| Industrial Program | | | | | | | | | |
| Process & System Upgrades | Projects | 0 | 0 | | | 0 | 0 | | |
| Monitoring & Targeting | Projects | 0 | 0 | | | 0 | 0 | | |
| Energy Manager | Projects | 0 | 0 | | | 0 | 0 | | |
| Retrofit | Projects | 0 | 0 | | | 0 | 0 | | |
| Demand Response 3 | Facilities | 0 | 0 | | | 0 | 0 | | |
| Industrial Program Total | | 0 | 0 | | | 0 | 0 | | |
| Home Assistance Program | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | | | 0 | 0 | | |
| Home Assistance Program Total | | 0 | 0 | | | 0 | 0 | | |
| Aboriginal Program | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | | | 0 | 0 | | |
| Direct Install Lighting | Projects | 0 | 0 | | | 0 | 0 | | |
| Aboriginal Program Total | | | | | | | | | |
| Pre-2011 Programs completed in 2011 | | | | | | | | | |
| Electricity Retrofit Incentive Program | Projects | 0 | 0 | | | 0 | 0 | | |
| High Performance New Construction | Projects | 0 | 0 | | | 0 | 0 | | |
| Toronto Comprehensive | Projects | 0 | 0 | | | 0 | 0 | | |
| Multifamily Energy Efficiency Rebates | Projects | 0 | 0 | | | 0 | 0 | | |
| LDC Custom Programs | Projects | 0 | 0 | | | 0 | 0 | | |
| Pre-2011 Programs completed in 2011 Total | | 0 | 0 | | | 0 | 0 | | |
| Other | | | | | | | | | |
| Program Enabled Savings | Projects | 390 | 315 | | | 164,800 | 6,606,320 | | |
| Time-of-Use Savings | Homes | 0 | 0 | | | 0 | 0 | | |
| Other Total | | 390 | 315 | | | 164,800 | 6,606,320 | | |
| Adjustments to 2011 Verified Results | | 418 | | | | 4,861,598 | | | |
| Adjustments to 2012 Verified Results | | | 2,056 | | | | 17,839,461 | | |
| Total Adjustments to Previous Years' Verified Results | | 418 | 2,056 | | | 4,861,598 | 17,839,461 | | |

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Gross results are presented for informational purposes only and are not considered official 2013 Final Verified Results

Table 13: Province-Wide Initiatives and Program Level Gross Savings by Year

| Initiative | Unit | Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period) | | | | Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period) | | | |
|---|------------|---|---------|---------|------|--|-------------|-------------|------|
| | | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 |
| Consumer Program | | | | | | | | | |
| Appliance Retirement** | Appliances | 6,750 | 2,011 | 3,151 | | 45,971,627 | 13,424,518 | 18,616,239 | |
| Appliance Exchange** | Appliances | 719 | 556 | 2,101 | | 873,531 | 974,621 | 3,746,106 | |
| HVAC Incentives | Equipment | 53,209 | 38,346 | 40,418 | | 99,413,430 | 66,929,213 | 71,225,037 | |
| Conservation Instant Coupon Booklet | Items | 1,184 | 231 | 464 | | 19,192,453 | 1,325,898 | 6,842,244 | |
| Bi-Annual Retailer Event | Items | 1,504 | 1,622 | 1,142 | | 26,899,265 | 29,222,072 | 16,441,329 | |
| Retailer Co-op | Items | 0 | 0 | 0 | | 3,917 | 0 | 0 | |
| Residential Demand Response | Devices | 10,390 | 49,038 | 93,076 | | 23,597 | 359,408 | 390,303 | |
| Residential Demand Response (IHD) | Devices | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Residential New Construction | Homes | 0 | 1 | 29 | | 1,813 | 4,884 | 259,826 | |
| Consumer Program Total | | 73,757 | 91,805 | 140,380 | | 192,379,633 | 112,240,615 | 117,521,084 | |
| Business Program | | | | | | | | | |
| Retrofit | Projects | 34,201 | 78,965 | 82,896 | | 184,070,265 | 387,817,248 | 478,410,896 | |
| Direct Install Lighting | Projects | 22,155 | 20,469 | 19,807 | | 65,777,197 | 68,896,046 | 68,140,249 | |
| Building Commissioning | Buildings | 0 | 0 | 0 | | 0 | 0 | 0 | |
| New Construction | Buildings | 247 | 1,596 | 2,934 | | 823,434 | 3,755,869 | 9,183,826 | |
| Energy Audit | Audits | 0 | 1,450 | 4,283 | | 0 | 7,049,351 | 23,386,108 | |
| Small Commercial Demand Response | Devices | 55 | 187 | 773 | | 131 | 1,068 | 373 | |
| Small Commercial Demand Response (IHD) | Devices | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Demand Response 3 | Facilities | 21,390 | 19,389 | 23,706 | | 633,421 | 281,823 | 346,659 | |
| Business Program Total | | 78,048 | 122,056 | 134,399 | | 251,304,448 | 467,801,406 | 579,468,111 | |
| Industrial Program | | | | | | | | | |
| Process & System Upgrades | Projects | 0 | 0 | 313 | | 0 | 0 | 2,799,746 | |
| Monitoring & Targeting | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Energy Manager | Projects | 0 | 1,034 | 3,953 | | 0 | 7,067,535 | 24,438,070 | |
| Retrofit | Projects | 6,372 | 0 | 0 | | 38,412,408 | 0 | 0 | |
| Demand Response 3 | Facilities | 176,180 | 74,056 | 162,543 | | 4,243,958 | 1,784,712 | 4,309,160 | |
| Industrial Program Total | | 182,552 | 75,090 | 166,809 | | 42,656,366 | 8,852,247 | 31,546,976 | |
| Home Assistance Program | | | | | | | | | |
| Home Assistance Program | Homes | 4 | 1,777 | 2,361 | | 56,119 | 5,524,230 | 20,987,275 | |
| Home Assistance Program Total | | 4 | 1,777 | 2,361 | | 56,119 | 5,524,230 | 20,987,275 | |
| Aboriginal Program | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | 267 | | 0 | 0 | 1,609,393 | |
| Direct Install Lighting | Projects | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Aboriginal Program Total | | 0 | 0 | 267 | | 0 | 0 | 1,609,393 | |
| Pre-2011 Programs completed in 2011 | | | | | | | | | |
| Electricity Retrofit Incentive Program | Projects | 40,418 | 0 | 0 | | 223,956,390 | 0 | 0 | |
| High Performance New Construction | Projects | 10,197 | 6,501 | 772 | | 52,371,183 | 23,803,888 | 3,522,240 | |
| Toronto Comprehensive | Projects | 33,467 | 0 | 0 | | 174,070,574 | 0 | 0 | |
| Multifamily Energy Efficiency Rebates | Projects | 2,553 | 0 | 0 | | 9,774,792 | 0 | 0 | |
| LDC Custom Programs | Projects | 534 | 0 | 0 | | 649,140 | 0 | 0 | |
| Pre-2011 Programs completed in 2011 Total | | 87,169 | 6,501 | 772 | | 460,822,079 | 23,803,888 | 3,522,240 | |
| Other | | | | | | | | | |
| Program Enabled Savings | Projects | 0 | 2,177 | 3,692 | | 0 | 525,011 | 4,075,382 | |
| Time-of-Use Savings | Homes | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Other Total | | 0 | 2,177 | 3,692 | | 0 | 525,011 | 4,075,382 | |
| Adjustments to 2011 Verified Results | | | 13,266 | 645 | | | 48,705,294 | 1,744,645 | |
| Adjustments to 2012 Verified Results | | | | 8,707 | | | | 55,101,043 | |
| Energy Efficiency Total | | 213,515 | 156,735 | 168,583 | | 942,317,539 | 616,320,385 | 753,683,966 | |
| Demand Response Total | | 208,015 | 142,670 | 280,099 | | 4,901,107 | 2,427,011 | 5,046,495 | |
| Adjustments to Previous Years' Verified Results Total | | 0 | 13,266 | 9,352 | | 0 | 48,705,294 | 56,845,688 | |
| OPA-Contracted LDC Portfolio Total (inc. Adjustments) | | 421,530 | 312,671 | 458,033 | | 947,218,646 | 667,452,690 | 815,576,149 | |

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above does not consider persistence of savings

Gross results are presented for informational purposes only and are not considered official 2013 Final Verified Results
**Net results substituted for gross results due to unavailability of data

Table 14: Adjustments to Province-Wide Gross Verified Results due to Variances

| Initiative | Unit | Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period) | | | | Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period) | | | |
|---|------------|---|-------|------|------|--|------------|------|------|
| | | 2011 | 2012 | 2013 | 2014 | 2011 | 2012 | 2013 | 2014 |
| Consumer Program | | | | | | | | | |
| Appliance Retirement | Appliances | 0 | 0 | | | 0 | 0 | | |
| Appliance Exchange | Appliances | 0 | 0 | | | 0 | 0 | | |
| HVAC Incentives | Equipment | -8,762 | 1,036 | | | -16,245,279 | 1,854,833 | | |
| Conservation Instant Coupon Booklet | Items | 15 | 0 | | | 255,975 | 0 | | |
| Bi-Annual Retailer Event | Items | 117 | 0 | | | 2,373,616 | 0 | | |
| Retailer Co-op | Items | 0 | 0 | | | 0 | 0 | | |
| Residential Demand Response | Devices | 0 | 0 | | | 0 | 0 | | |
| Residential Demand Response (IHD) | Devices | 0 | 0 | | | 0 | 0 | | |
| Residential New Construction | Homes | 0 | 0 | | | 328,256 | 0 | | |
| Consumer Program Total | | -8,630 | 1,036 | | | -13,287,430 | 1,854,833 | | |
| Business Program | | | | | | | | | |
| Retrofit | Projects | 4,504 | 6,218 | | | 22,046,931 | 40,101,273 | | |
| Direct Install Lighting | Projects | 541 | 217 | | | 1,346,618 | 781,858 | | |
| Building Commissioning | Buildings | 0 | 0 | | | 0 | 0 | | |
| New Construction | Buildings | 3,243 | 0 | | | 11,323,593 | 0 | | |
| Energy Audit | Audits | 492 | 337 | | | 2,391,744 | 1,636,457 | | |
| Small Commercial Demand Response | Devices | 0 | 0 | | | 0 | 0 | | |
| Small Commercial Demand Response (IHD) | Devices | 0 | 0 | | | 0 | 0 | | |
| Demand Response 3 | Facilities | 0 | 0 | | | 0 | 0 | | |
| Business Program Total | | 8,780 | 6,771 | | | 37,108,886 | 42,519,588 | | |
| Industrial Program | | | | | | | | | |
| Process & System Upgrades | Projects | 0 | 0 | | | 0 | 0 | | |
| Monitoring & Targeting | Projects | 0 | 0 | | | 0 | 0 | | |
| Energy Manager | Projects | 0 | 75 | | | 0 | 799,151 | | |
| Retrofit | Projects | 0 | 0 | | | 0 | 0 | | |
| Demand Response 3 | Facilities | 0 | 0 | | | 0 | 0 | | |
| Industrial Program Total | | 0 | 75 | | | 0 | 799,151 | | |
| Home Assistance Program | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | | | 0 | 0 | | |
| Home Assistance Program Total | | 0 | 0 | | | 0 | 0 | | |
| Aboriginal Program | | | | | | | | | |
| Home Assistance Program | Homes | 0 | 0 | | | 0 | 0 | | |
| Direct Install Lighting | Projects | 0 | 0 | | | 0 | 0 | | |
| Aboriginal Program Total | | 0 | 0 | | | 0 | 0 | | |
| Pre-2011 Programs completed in 2011 | | | | | | | | | |
| Electricity Retrofit Incentive Program | Projects | 266 | 0 | | | 1,049,108 | 0 | | |
| High Performance New Construction | Projects | 12,872 | 0 | | | 23,905,663 | 0 | | |
| Toronto Comprehensive | Projects | 0 | 0 | | | 0 | 0 | | |
| Multifamily Energy Efficiency Rebates | Projects | 0 | 0 | | | 0 | 0 | | |
| LDC Custom Programs | Projects | 0 | 0 | | | 0 | 0 | | |
| Pre-2011 Programs completed in 2011 Total | | 13,137 | 0 | | | 24,954,771 | 0 | | |
| Other | | | | | | | | | |
| Program Enabled Savings | Projects | 624 | 824 | | | 1,673,712 | 9,927,473 | | |
| Time-of-Use Savings | Homes | 0 | 0 | | | 0 | 0 | | |
| Other Total | | 624 | 824 | | | 1,673,712 | 9,927,473 | | |
| Adjustments to 2011 Verified Results | | 13,911 | | | | 50,449,939 | | | |
| Adjustments to 2012 Verified Results | | | 8,707 | | | | 55,101,043 | | |
| Adjustments to Previous Years' Verified Results Total | | 13,911 | 8,707 | | | 50,449,939 | 55,101,043 | | |

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Gross results are presented for informational purposes only and are not considered official 2013 Final Verified Results

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

INTERROGATORY 96:

Reference(s): **Exhibit 9, Tab 2, Schedule 5, page 6**

THESL notes that demand savings from the Demand Response (“DR”) programs have been excluded from its LRAMVA request. THESL further notes that it believes that the peak demand savings from the DR program are not necessarily coincident with the customer’s individual peak demand for the demand reduction occurrence:

- a) Please further discuss the rationale for not including demand savings from the DR program with reference to any OPA advice or documentation which supports this position;
- b) Please provide the lost revenue amount related to the demand savings from the DR programs.

RESPONSE:

- a) Toronto Hydro excluded demand savings from the Demand Response programs in its LRAMVA claim as there is not enough supporting evidence to confirm that the savings from demand response programs were coincident with the customer’s individual monthly peak demand charge. When examining the impact of a demand response event, Toronto Hydro noted that while a customer’s peak demand would be reduced on an event day, this may simply shift their individual monthly peak demand to a similar day in the same month when an event was not called. In some cases, this would result in no decrease in monthly peak demand, while in other cases the monthly peak demand reduction would be negligible. As a result, Toronto Hydro felt that claiming any LRAMVA for these programs was not supportable.

RESPONSES TO ONTARIO ENERGY BOARD STAFF INTERROGATORIES

1

2 b) If Toronto Hydro was to include savings from Demand Response programs, the total
3 2011-2013 Lost Revenue amount related to the demand response savings would be
4 \$211,713.

RESPONSES TO CONSUMERS COUNCIL OF CANADA INTERROGATORIES

INTERROGATORY 48:

Reference(s): **Exhibit 9, Tab 1, Schedule 1, p. 14**

Toronto Hydro is seeking to recover from customers a balance of \$16.9 million which represents the net book value of the stranded conventional meters resulting from the smart program. Please provide a complete schedule setting out the following:

- a) All smart meter expenditures, capital and OM A, since the inception of the smart meter program;
- b) The average cost of Toronto Hydro's installed meters;
- c) Recoveries to date from customers regarding smart meter costs.
- d) A detailed calculation as to how the \$16.9 million was derived?

RESPONSE:

a) Toronto Hydro's costs for the smart meter program were fully detailed in its Smart Meter Clearance application (EB-2013-0287). The following table is an extract from Appendix B of that application:

| Total Smart Meter Costs (\$000s) | | | | | | |
|---|-------------|-------------|-------------|-------------|-------------|--------------|
| | 2006 | 2007 | 2008 | 2009 | 2010 | Total |
| Capital | 31,205.3 | 29,188.4 | 34,812.5 | 22,833.2 | 19,799.4 | 137,838.8 |
| OM&A | 526.0 | 1,761.8 | 862.7 | 3,132.1 | 3,110.3 | 9,392.9 |

b) As noted in its EB-2013-0287 Smart Meter Clearance application (page 8), Toronto Hydro's average per unit cost (capital and OM&A) for all smart meters installed from

RESPONSES TO CONSUMERS COUNCIL OF CANADA INTERROGATORIES

1 2006 through 2010 was \$220.69. For the Residential and GS<50kW classes only,
2 Toronto Hydro's average per unit costs were \$185.58.

3

4 c) The following table shows the total recovery for the smart meter program through
5 rate riders. The table does not include recovery of any costs included in rate base.

Smart Meter Rate Rider Recovery (\$000s)

| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 (Sep) | Total |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|------------|-----------|
| Total | -2,966.4 | -5,583.5 | -6,910.9 | -5,552.4 | -5,681.6 | -5,866.2 | -5,889.0 | -6,008.3 | -9,379.7 | -53,838.0 |

6 d) Refer to Exhibit 2A, Tab 4, Schedule 2, Appendix 2-S for the calculation of the
7 stranded meter residual net book value.

RESPONSES TO CONSUMERS COUNCIL OF CANADA INTERROGATORIES

1 **INTERROGATORY 49:**

2 **Reference(s):** **Exhibit 9, Tab1, Schedule 1**

3

4

5 In the EB-2013-0234 proceeding, in the Settlement Proposal, the agreement was for
6 Toronto Hydro to establish a deferral account to record net revenues associated with
7 wireless attachments on poles. Has Toronto Hydro established that account? If so, what
8 are the amounts for disposition?

9

10

11 **RESPONSE:**

12 Toronto Hydro has established the accounts necessary to record the amounts as per the
13 Accounting Order. Clearance of the DVA accounts is based on balances as of December
14 31, 2013. As the accounts for the Wireless access have only been active since the current
15 year (2014), Toronto Hydro is not proposing any amounts for clearance at this time. To
16 date, approximately \$40k in incremental costs and \$150k in wireless revenues have been
17 recorded.

RESPONSES TO CONSUMERS COUNCIL OF CANADA INTERROGATORIES

1 **INTERROGATORY 50:**

2 **Reference(s):** **Exhibit 9**

3

4

5 As explained in Exhibit 9, Tab 1, Toronto Hydro is requesting a minimal, below forecast
6 baseline amount of rates funding for externally initiated plant relocations work as part of
7 the DSP, representing less than the utility's forecast annual spending on externally
8 initiated projects. This below-forecast amount is accompanied by a variance account to
9 capture annual differences from this base amount. The utility's expectation is that this
10 approach will allow it to fund necessary, non-discretionary work while, at the same time,
11 holding ratepayers harmless from the potential that a material amount of the forecast third
12 party work does not materialize, due to the unpredictable nature, costs, and timing of
13 such projects.

14 a) Please provide the details regarding how Toronto Hydro determined the minimal,
15 below forecast baseline amount of rates funding for externally initiated plant
16 relocations work.

17

18

19 **RESPONSE:**

20 a) Please see the response to interrogatory 2B-SIA-22.

**RESPONSES TO SUSTAINABLE INFRASTRUCTURE ALLIANCE
OF ONTARIO INTERROGATORIES**

1 **INTERROGATORY 44:**

2 **Reference(s):** **Exhibit 9, Tab 1, Schedule 1, page 13, Table 5**

3

4

5 Please explain the sizeable variance between the forecast gains for the sale of 175

6 Goddard (\$7.14 million) and the actual after tax gains (\$2.47 million).

7

8

9 **RESPONSE:**

10 Please see response to interrogatory 9-OEBStaff-88.

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

INTERROGATORY 66:

Reference(s): Exhibit 9, Tab 2, Schedule 5, pages 4-5

- a) What is the source of the actual historical CDM savings used in the regression analysis (per page 3, line 10)?
- b) Are the historical values used for first year's impact of CDM programs: i) "annualized values" (as reported by the OPA) or ii) estimates of the actual impact in the first year of implementation?
- c) Please complete the following chart based on actual (annualized) net CDM savings and provide the relevant references to the sources for the data used.

| Program Year | Annualized CDM Impact (Net) by Calendar Year (MWh) | | | | | | | |
|--------------|--|------|------|------|------|------|------|------|
| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| 2006 | | | | | | | | |
| 2007 | X | | | | | | | |
| 2008 | X | X | | | | | | |
| 2009 | X | X | X | | | | | |
| 2010 | X | X | X | X | | | | |
| 2011 | X | X | X | X | X | | | |
| 2012 | X | X | X | X | X | X | | |
| 2013 | X | X | X | X | X | X | X | |
| Total | | | | | | | | |

- d) If the historical data used was not based on "annualized" first year impacts, please also complete the following chart setting out the CDM savings as used in the analysis.

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

1 e)

| Program Year | Actual CDM Impact (Net) by Calendar Year (MWh) | | | | | | | |
|-----------------|--|------|------|------|------|------|------|------|
| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| 2006 | | | | | | | | |
| 2007 | X | | | | | | | |
| 2008 | X | X | | | | | | |
| 2009 | X | X | X | | | | | |
| 2010 | X | X | X | X | | | | |
| 2011 | X | X | X | X | X | | | |
| 2012 | X | X | X | X | X | X | | |
| 2013 | x` | x | x | x | x | x | x | |
| Total | | | | | | | | |

2 f) Please provide the data file with the historical data used to perform the regression
3 analysis outlined on page 3 (lines 8-18) and the resulting regression equation and
4 statistics.

5 g) Please provide a schedule that clearly outlines how the regression equation results
6 were used to estimate the cumulative CDM in the 2011 load forecast (per page 3,
7 lines 15-16) and the cumulative savings for 2010 year end (per page 4, lines 4-5).

8 h) Please re-estimate the regression equation without the spring/fall period variable(s)
9 and provide the resulting regression equation, regression statistics and results for
10 Tables 2 and 3.

11

12

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

1 **RESPONSE:**

2 a) Toronto Hydro used the savings provided by the OPA in a file titled, “2006-2010
3 Final OPA CDM Results – Toronto Hydro-Electric System Limited”.

4
5 b) The historical values used for first year’s impact of CDM programs are estimates of
6 the actual impact in the first year of implementation.

7
8 c) The table below includes 2006-2013 Annualized “net” CDM impacts by Calendar
9 year. Please refer to part a) above for the data source.

| Program | Annualized “net” CDM impact by Calendar Year (MWh) | | | | | | | |
|--------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| 2006 | 50,152 | 50,152 | 50,152 | 50,152 | 8,710 | 8,710 | 7,968 | 7,968 |
| 2007 | | 203,755 | 193,028 | 191,702 | 191,702 | 191,698 | 25,297 | 25,297 |
| 2008 | | | 109,621 | 107,903 | 107,414 | 107,414 | 105,116 | 101,371 |
| 2009 | | | | 126,505 | 124,976 | 124,976 | 124,948 | 124,194 |
| 2010 | | | | | 185,646 | 185,350 | 185,282 | 185,269 |
| 2011 | | | | | | 172,287 | 172,334 | 172,285 |
| 2012 | | | | | | | 111,889 | 110,735 |
| 2013 | | | | | | | | 127,105 |
| TOTAL | 50,152 | 253,907 | 352,800 | 476,263 | 618,450 | 790,436 | 732,834 | 854,223 |

For GS 50-999 kW, GS 1000-4999 kW, and Large Use customer classes, CDM savings from DR programs were excluded.

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

- 1 d) The 2006-2013 actual “net” CDM impacts by calendar year are provided in the table
2 below.

| Program | Actual “net” CDM impact by Calendar Year (MWh) | | | | | | | |
|--------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| 2006 | 20,275 | 50,152 | 50,152 | 50,152 | 33,398 | 8,710 | 8,410 | 7,968 |
| 2007 | | 65,933 | 200,284 | 192,599 | 191,702 | 191,701 | 137,853 | 25,297 |
| 2008 | | | 66,392 | 108,580 | 107,607 | 107,414 | 106,022 | 102,848 |
| 2009 | | | | 61,042 | 125,768 | 124,976 | 124,963 | 124,584 |
| 2010 | | | | | 122,326 | 185,451 | 185,305 | 185,273 |
| 2011 | | | | | | 63,504 | 172,304 | 172,316 |
| 2012 | | | | | | | 46,405 | 111,379 |
| 2013 | | | | | | | | 53,734 |
| TOTAL | 20,275 | 116,085 | 316,828 | 412,374 | 580,801 | 681,757 | 781,262 | 783,400 |

For GS 50-999 kW, GS 1000-4999 kW, and Large Use customer classes, CDM savings from DR programs were excluded.

- 3 e) See response to part (d) above
4
5 f) The requested data file is provided as 9_VECC_66.xlsx.
6
7 g) Please refer to Toronto Hydro’s response to interrogatory 9-OEBStaff-95 part (e).
8
9 h) Presented below are the regression model outputs and results for Tables 2 and 3
10 without the spring/fall period variable(s) by class.

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

1

1) Residential Model

| | | | | | |
|--|-----------------|-----------------------|-------------|-------|---------|
| Dependent Variable: RES_CDM_DAY | | | | | |
| Method: Least Squares | | | | | |
| Date: 10/24/14 Time: 14:53 | | | | | |
| Sample: 2006M01 2010M04 | | | | | |
| Included observations: 52 | | | | | |
| White Heteroskedasticity-Consistent Standard Errors & Covariance | | | | | |
| Variable | Coefficient | Std. Error | t-Statistic | Prob. | |
| TREND_INPUT_DAY | - 0.25 | 0.029821 | - 8.28 | | 0.00 |
| C | - 254,394 | 50978.2 | - 4.99 | | 0.00 |
| R-squared | 58.07% | Mean dependent var | | | 217,006 |
| Adjusted R-squared | 57.24% | S.D. dependent var | | | 136,854 |
| S.E. of regression | 89,496 | Akaike info criterion | | | 25.68 |
| Sum squared resid | 400,000,000,000 | Schwarz criterion | | | 25.75 |
| Log likelihood | - 665.67 | Hannan-Quinn criter. | | | 25.71 |
| F-statistic | 69.26 | Durbin-Watson stat | | | 1.26 |
| Prob(F-statistic) | 0.00 | | | | |

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

1

2) GS <50 kW Model

| | | | | | |
|--|-----------------|-----------------------|-------------|-------|---------|
| Dependent Variable: LESS50_CDM_DAY | | | | | |
| Method: Least Squares | | | | | |
| Date: 10/24/14 Time: 14:55 | | | | | |
| Sample: 2007M01 2010M04 | | | | | |
| Included observations: 40 | | | | | |
| White Heteroskedasticity-Consistent Standard Errors & Covariance | | | | | |
| Variable | Coefficient | Std. Error | t-Statistic | Prob. | |
| TREND_INPUT_DAY | - 0.48 | 0.059258 | - 8.10 | | 0.00 |
| C | - 388,997 | 60958.24 | - 6.38 | | 0.00 |
| R-squared | 64.42% | Mean dependent var | | | 148,859 |
| Adjusted R-squared | 63.49% | S.D. dependent var | | | 105,152 |
| S.E. of regression | 63,539 | Akaike info criterion | | | 25.01 |
| Sum squared resid | 153,000,000,000 | Schwarz criterion | | | 25.09 |
| Log likelihood | - 498.11 | Hannan-Quinn criter. | | | 25.04 |
| F-statistic | 68.81 | Durbin-Watson stat | | | 1.27 |
| Prob(F-statistic) | 0.00 | | | | |

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

1 3) GS 1000-4999 kW Model

| | | | | |
|--|-----------------|-----------------------|-------------|---------|
| Dependent Variable: GS450_EE_DAILY | | | | |
| Method: Least Squares | | | | |
| Date: 10/24/14 Time: 14:57 | | | | |
| Sample: 2007M01 2010M04 | | | | |
| Included observations: 40 | | | | |
| White Heteroskedasticity-Consistent Standard Errors & Covariance | | | | |
| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
| TREND_INPUT_DAY | - 0.27 | 0.032737 | - 8.23 | 0.00 |
| C | - 2,376 | 14884.06 | - 0.16 | 0.87 |
| R-squared | 65.40% | Mean dependent var | | 153,563 |
| Adjusted R-squared | 64.48% | S.D. dependent var | | 109,966 |
| S.E. of regression | 65,534 | Akaike info criterion | | 25.07 |
| Sum squared resid | 163,000,000,000 | Schwarz criterion | | 25.15 |
| Log likelihood | - 499.34 | Hannan-Quinn criter. | | 25.10 |
| F-statistic | 71.81 | Durbin-Watson stat | | 1.28 |
| Prob(F-statistic) | 0.00 | | | |

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

1 4) Large Use model

| | | | | |
|--|-----------------|-----------------------|-------------|---------|
| Dependent Variable: LU_CDM_EE_DAY | | | | |
| Method: Least Squares | | | | |
| Date: 10/24/14 Time: 14:57 | | | | |
| Sample: 2007M01 2010M04 | | | | |
| Included observations: 40 | | | | |
| White Heteroskedasticity-Consistent Standard Errors & Covariance | | | | |
| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
| TREND_INPUT_DAY | - 0.58 | 0.069976 | - 8.23 | 0.00 |
| C | - 2,332 | 14612.98 | - 0.16 | 0.87 |
| R-squared | 65.40% | Mean dependent var | | 150,766 |
| Adjusted R-squared | 64.48% | S.D. dependent var | | 107,963 |
| S.E. of regression | 64,341 | Akaike info criterion | | 25.03 |
| Sum squared resid | 157,000,000,000 | Schwarz criterion | | 25.11 |
| Log likelihood | - 498.61 | Hannan-Quinn criter. | | 25.06 |
| F-statistic | 71.81 | Durbin-Watson stat | | 1.28 |
| Prob(F-statistic) | 0.00 | | | |

2 **Table 2: 2011 CDM savings forecast embedded in 2011 Load Forecast**

| Customer Class | 2011 Board- Approved Purchased Load Forecast | Trend Variable, kWh | Estimated cumulative CDM Savings, kWh |
|--------------------------------|---|------------------------|--|
| Residential | 5,174,271,175 | -1,103,440,244 | 179,746,229 |
| General Service <50 kW | 2,219,756,435 | -595,827,679 | 143,996,465 |
| General Service 50 - 999 kW | 10,496,749,821 | 0 | 0 |
| General Service 1000 - 4999 kW | 4,800,900,765 | -562,121,632 | 150,522,902 |
| Large Use | 2,421,224,078 | -258,186,760 | 147,780,979 |

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

1 **Table 3: 2011-2013 Forecasted CDM savings**

| Customer Class | 2011 CDM | | 2012 CDM | | 2013 CDM | |
|--------------------------------|-------------------|---------------|-------------------|----------------|-------------------|----------------|
| | kWh | kVA | kWh | kVA | kWh | kVA |
| Residential | 15,798,318 | | 29,129,392 | | 28,709,420 | |
| Competitive Sector Multi-Unit | | | | | 340,383 | |
| Residential (CSMUR)** | | | | | | |
| General Service <50 kW | 16,573,756 | | 30,559,168 | | 30,475,673 | |
| General Service 50 - 999 kW | | 0 | | 0 | | 0 |
| General Service 1000 - 4999 kW | | 40,065 | | 73,620 | | 73,429 |
| Large Use | | 36,920 | | 67,663 | | 67,487 |
| Total | 32,372,074 | 76,985 | 59,688,559 | 141,283 | 59,525,476 | 140,915 |

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

1 **INTERROGATORY 67:**

2 **Reference(s):** **Exhibit 9, Tab 2, Schedule 5, pp. 4-5**

3

4

5 a) Please explain what new information was incorporated in the Update for purposes of
6 estimating the regression equation.

7 b) Please explain why the September Update led to a change in the estimated cumulative
8 CDM savings embedded in the 2011 Load Forecast (per Table 2) versus the original
9 Application.

10

11

12 **RESPONSE:**

13 a) and b)

14 Please refer to Toronto Hydro's response to interrogatory to 3-VECC-21 part (a).

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

INTERROGATORY 68:

Reference(s): Exhibit 9, Tab 2, Schedule 5, pages 5-6

- a) Please provide a revised version of Table 3 that includes the kWh savings for the GS 50-999; GS 1,000-4,999 and Large Use classes.
- b) With respect the results from part (a), please reconcile the resulting 2012 and 2013 CDM kWh totals with the 2011 CDM program persisting savings reported for 2012 and 2013 (Appendix B, page 7).
- c) Please explain how the allocation of forecast CDM savings to customer classes as set out in Table 3 was performed.
- d) Please provide a schedule that set out the derivation of the actual 2011-2013 CDM savings for the Residential class as shown in Table 4.

RESPONSE:

- a) A revised version of Table 3 is provided below:

2011-2013 Forecasted CDM Savings:

| Customer Class | 2011 CDM | | 2012 CDM | | 2013 CDM | |
|--------------------------------|------------|--------|------------|--------|------------|--------|
| | kWh | kVA | kWh | kVA | kWh | kVA |
| Residential | 16,077,338 | n/a | 29,643,858 | n/a | 29,216,469 | n/a |
| CSMUR | n/a | n/a | n/a | n/a | 346,394 | n/a |
| General Service <50 kW | 16,910,008 | n/a | 31,179,157 | n/a | 31,093,969 | n/a |
| General Service 50 - 999 kW | 0 | 0 | 0 | 0 | 0 | 0 |
| General Service 1000 - 4999 kW | 17,810,560 | 40,863 | 32,839,621 | 75,086 | 32,749,896 | 74,891 |
| Large Use | 17,810,536 | 37,655 | 32,839,578 | 69,011 | 32,749,852 | 68,831 |

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

| Customer Class | 2011 CDM | | 2012 CDM | | 2013 CDM | |
|----------------|------------|--------|-------------|---------|-------------|---------|
| | kWh | kVA | kWh | kVA | kWh | kVA |
| Total | 68,608,441 | 78,518 | 126,502,214 | 144,097 | 126,156,580 | 143,722 |

For GS 50-999 kW, GS 1000-4999 kW, and Large Use customer classes, CDM savings from DR programs were excluded.

- 1 b) The revised table with 2011 CDM program incremental and persisting savings in
2 2011, 2012 and 2013 is presented below. The kWh and kVA savings from 2012 and
3 2013 CDM programs are excluded. As a result, the totals in the table below are not
4 compatible for 2011-2013 LRAMVA balance determination.

| Customer Class | 2011 CDM | | 2012 CDM | | 2013 CDM | |
|--------------------------------|------------|---------|-------------|---------|-------------|---------|
| | kWh | kVA | kWh | kVA | kWh | kVA |
| Residential | 7,040,991 | n/a | 19,100,127 | n/a | 18,866,810 | n/a |
| CSMUR | n/a | n/a | n/a | n/a | 232,548 | n/a |
| General Service <50 kW | 11,310,557 | n/a | 30,704,099 | n/a | 30,717,050 | n/a |
| General Service 50 - 999 kW | 23,996,792 | 61,746 | 65,104,253 | 115,869 | 65,104,253 | 115,869 |
| General Service 1000 - 4999 kW | 11,365,657 | 30,002 | 30,835,480 | 56,434 | 30,835,480 | 56,434 |
| Large Use | 9,789,750 | 25,582 | 26,559,982 | 48,128 | 26,559,982 | 48,128 |
| Total | 63,503,746 | 117,330 | 172,303,940 | 220,432 | 172,316,122 | 220,432 |

For GS 50-999 kW, GS 1000-4999 kW, and Large Use customer classes, CDM savings from DR programs were excluded.

- 5 c) The estimates of CDM savings forecast by class are based on the trend variable
6 incorporated in forecasting models. For details of these estimations, please refer to
7 Exhibit 9, Tab 2, Schedule 5, section 4, pages 3-5.
8
9 d) To obtain 2011 to 2013 residential savings, the following section of the table from the
10 OPA's 2013 Draft Verified CDM program totals was referenced:

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

| | Peak Demand Savings (kW) | | | Energy Consumption Savings (kWh) | | |
|--|--------------------------|--------|--------|----------------------------------|-----------|----------|
| | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| | | | | | 1,091,60 | |
| Appliance Retirement | 349 | 161 | 90 | 2,343,820 | 9 | 591,184 |
| Appliance Exchange | 52 | 83 | 65 | 57,879 | 143,607 | 116,004 |
| | | | | 5,67 | 10,493,16 | 4,781,80 |
| HVAC Incentives | 4 | 2,821 | 3,015 | 6 | 6 | 8 |
| Conservation Instant Coupon Booklet | 150 | 29 | 66 | 2,439,881 | 178,941 | 986,409 |
| | | | | | 3,427,49 | 2,198,66 |
| Bi-Annual Retailer Event | 215 | 189 | 151 | 3,760,986 | 9 | 3 |
| Retailer Co-Op | - | - | - | 230 | - | - |
| Residential Demand Response | 743 | 22,940 | 34,268 | 1,924 | 168,943 | 116,929 |
| Residential Demand Response (IHD) | - | - | - | - | - | - |
| Residential New Construction | - | - | 13 | - | - | 105,822 |
| | | | | | | 1,620,65 |
| Home Assistance Program | - | 98 | 122 | - | 790,242 | 0 |
| | | | | | 3,791,69 | |
| Adjustments to 2011 Verified | - | 178 | 390 | - | 4 | 165,560 |
| | | | | | | 10,542,1 |
| Adjustments to 2012 Verified | - | - | 1,369 | - | - | 15 |

- 1 From this source data, the following steps were taken:
- 2 1) The residential rate class portions of the totals above were identified based on the
- 3 type of program.
- 4

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

- 1 2) Each month was assigned a percentage of the annual savings that would be
2 considered initiated in that month, which would then continue to produce savings
3 for the next 12 consecutive months in order to achieve the annual total. For
4 example, for the portion of projects that initiated in January of a given year,
5 annual savings would be realized by December of the same year; however, for the
6 portion of total projects which were considered initiated in June of a given year,
7 annual savings would be realized by May of the following year. As a result of
8 this application, the savings reported by the OPA for any given calendar year
9 would actually span that given year as well as the next, in a similar but more
10 comprehensive manner to the “half-year” rule.
11
- 12 3) Typical project measures were assessed for their pattern of annual savings, so as
13 not to allocate the same level of peak demand or consumption savings each
14 month, without discretion. For example, peak demand and consumption savings
15 related to residential projects involving cooling loads were considered 100%
16 realized in the hottest months (July and August); however, the savings resulting
17 from these projects were reduced accordingly in the shoulder and heating months.
18
- 19 4) Finally, persistence was applied to acknowledge the continuation of savings for
20 the typical measures implemented in each of the CDM programs and years. For
21 the purposes of LRAMVA calculations, 2013 achievements included persistence
22 from 2011 and 2012, while 2012 savings included persistence from only 2011.
23 Persistence resulting from savings achieved in between 2006 and 2010 were not
24 included.
25

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

- 1 The approach described above produced a scheduled allocation of the OPA draft
2 verified savings for 2011-2013, which are summarized in the table below:

| | TOTAL 2011 CDM (MWh) | TOTAL 2012 CDM (MWh) | TOTAL 2013 CDM (MWh) |
|---------------|----------------------|----------------------|----------------------|
| Jan | 28 | 1,825 | 2,821 |
| Feb | 52 | 1,862 | 2,890 |
| Mar | 160 | 1,984 | 2,941 |
| Apr | 127 | 982 | 1,455 |
| May | 189 | 1,024 | 1,491 |
| Jun | 703 | 2,599 | 3,765 |
| Jul | 900 | 2,721 | 3,993 |
| Aug | 953 | 2,707 | 3,995 |
| Sep | 1,033 | 2,731 | 4,052 |
| Oct | 477 | 1,141 | 1,698 |
| Nov | 628 | 1,183 | 1,810 |
| Dec | 1,791 | 2,769 | 3,907 |
| Totals | 7,041 | 23,529 | 34,818 |

RESPONSES TO VULNERABLE ENERGY CONSUMERS COALITION INTERROGATORIES

1 **INTERROGATORY 69:**

2 **Reference(s):** **Exhibit 9, Tab 1, Schedule 1, page 5**

3

4

5 a) When does THESL expect to file the Account 1588 balance update contemplated in
6 the application?

7

8

9 **RESPONSE:**

10 Toronto Hydro cannot provide an exact date as to when it expects to file any updated
11 information related to Account 1588 (or other RSVA accounts) at this time. Toronto
12 Hydro will file updated evidence as soon as it is available.