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BY RESS & OVERNIGHT COURIER

August 1, 2012

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
P. O. Box 2319
2300 Yonge Street, Suite 2700
Toronto, Ontario
M4P 1E4

Dear Ms. Walli:

Re: EB-2012-0033 Enersource Hydro Mississauga Inc. ("Enersource") Cost of Service Rate Application

On July 26, Enersource sent an email to intervenors with interrogatory responses that were missing from the PDF electronic version of the interrogatory responses that was filed on Monday July 23, 2012. Enersource became aware that some of the responses were missed while converting and merging all documents into a single PDF. The missed responses provided on July 26 were:

- VECC Issue 3.1 #18 to 26.

On July 29, Enersource sent a second email to intervenors with additional interrogatory responses that were missing from the PDF electronic version of the interrogatory responses that was filed on Monday July 23, 2012. These included:

- AMPCO Issue 2.3 #16
- Energy Probe Issue 4.1 #16 (included since the July 23 PDF version appears to show the Table on page 2 completely in black)
- Energy Probe Issue 4.4 #1, 2, 3 (plus attachment), 4 (plus 5 attachments), 5 and 6 [Note: #2 and #4 were included in the Friday July 27 submission with June YTD answers, w/o attachments]
- SEC Issue 4.4 #53 to 61 [Note: 58, 59 and 61 were included in the Friday July 27 submission with June YTD answers]

All of these responses were included in the hard copy versions of the interrogatory responses that were delivered separately to intervenors last week.

During the Technical Conference, it was also discovered that electronic versions of the following had not been submitted via RESS:

- Energy Probe Issue 4.1 # 11c) – this has been updated to include missing June YTD information in part c). This has been included in the PDF addressed above.
- Energy Probe Issue 3.1 #7c) – a live excel spreadsheet was missing; it has been submitted today via RESS.
- Energy Probe Issue 3.1 #9 – live excel spreadsheet was missing; it has been submitted today via RESS.

To complete the electronic record on the Board's Webdrawer, Enersource has submitted today, via RESS, electronic versions of the above material.

Sincerely,

(Original signed by)

Gia M. DeJulio
Director, Regulatory Affairs

Encl.

cc. Dan Pastoric, Executive Vice-President and Chief Operating Officer
George Vegh, McCarthy Tétrault
Richard Battista, Ontario Energy Board
All Intervenors EB-2012-0033

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory # 16

**Association of Major Power Consumers in Ontario
(AMPCO)**

2. Rate Base

2.3: Is the proposed Green Energy Act Plan appropriate?

Reference: Exhibit 2, Tab 2, Schedule 3, Appendix 1, Page 13-14

Preamble: Table 2 on Page 14 provides the actual expenditures for 2011 and the forecasted capital expenditures for the years 2012 to 2016. The evidence states "Enersource will continue to connect generation projects as is required under the DSC. In order to achieve this, Enersource will require continued expenditures in the areas previously identified in section 3.4. This includes the Customer Engineering team as well as the additional resources such the two co-op students, Field Construction Inspector and Service Engineering company. The forecasted costs associated with this are shown in the table."

- a) Please provide a breakdown of the costs on the table shown on Page 10.
- b) Please confirm the total cost of the Green Energy Plan showing capital and OM&A separately.

Response:

- a) The forecast was developed based on projected costs of a microFIT project to be \$2,310 and a FIT project to be \$2,695 (not thousands of dollars)

	FORECASTED				
	2012	2013	2014	2015	2016
MicroFIT	\$80	\$115	\$139	\$162	\$185
FIT	\$53	\$68	\$81	\$95	\$108
TOTAL	\$133	\$183	\$219	\$256	\$293

b) Please see response to Board Staff Issue 2.3 IR #17 e).

Year	Month	Actual Purchases	Predicted Purchases	Weather Corrected
2009	1	709,322	712,761	698,686
2009	2	619,803	626,473	632,749
2009	3	662,783	650,330	655,551
2009	4	594,357	608,377	604,632
2009	5	601,189	605,541	596,937
2009	6	639,917	637,100	639,868
2009	7	661,873	659,394	725,360
2009	8	709,006	708,127	685,100
2009	9	633,269	631,276	615,463
2009	10	626,309	621,137	618,996
2009	11	617,383	627,938	644,817
2009	12	667,132	670,468	670,468
		7,742,343	7,758,922	7,788,628
Year	Month	Actual Purchases (MWh)	Predicted Purchases (MWh)	Weather Corrected Purchases (MWh)
2010	1	691,770	685,288	686,775
2010	2	623,690	623,996	629,306
2010	3	643,430	644,631	664,970
2010	4	589,692	585,523	595,231
2010	5	651,639	642,571	597,346
2010	6	675,489	668,714	644,232
2010	7	780,227	772,073	717,092
2010	8	752,466	740,773	678,950
2010	9	634,077	640,869	613,982
2010	10	608,998	605,325	606,731
2010	11	627,864	630,192	638,998
2010	12	669,803	674,079	665,485
		7,949,145	7,914,035	7,739,098
*Predicted purchases are modeled using actual historical drivers (i.e. weather, econometrics etc.)				
*Model accuracy with adjusted R-Squared = 0.988 & MAPE = 0.86% (Exhibit 3, Tab 1, Schedule 2, Attachment A)				
*Actual vs Predicted (Model) purchases are within 0.47% accuracy				
Variable	Coefficient	StdErr	T-Stat	P-Value
Temperature Cubed	-0.239	0.081	-2.958	0.35%
Build-Up	137.917	39.549	3.487	0.06%
CDD	1042.732	93.13	11.196	0.00%
HDD	323.34	36.225	8.926	0.00%
Dew Point Cubed	0.15	0.04	3.759	0.02%
*Exhibit 3, Tab 1, Schedule 2, Attachment A				

[illegible]

[illegible]

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #18

Vulnerable Energy Consumers Coalition (VECC)

3. Operating Revenue

Issue 3.1 Is the proposed load forecast for 2013 and 2014, including billing determinants, appropriate?

Reference: Exhibit 3, Tab 1, Schedule 1, page 1 (lines 13-16) and page 3, Table 1

- a) Please explain how the “Weather-Corrected Energy Purchases” values were derived.
- b) Please provide a table that sets out for 2009, 2010 and 2011 the following:
- The actual purchases for each year
 - The actual HDD and CDD values for each year
 - The “weather normal” HDD and CDD values for each year (as defined by Enersource)
 - The HDD and CDD coefficients per Enersource’s regression model
 - The weather normal adjustment for each year based on the product of a) the HDD and CDD coefficients and b) the differences between the “weather normal” and actual values for HDD and CDD respectively.
 - The estimated “weather normal purchases” calculated by adjusting actual purchases by the values calculated in the preceding bullet.

Response:

- a) The load forecast model was developed using a multivariate regression process based on actual weather, calendar, and econometric variables to estimate the relationship between energy consumption to analytical drivers with independent variable coefficients, all as shown in Exhibit 3 Tab 1 Schedule 2 Attachment A. The load forecast model has an adjusted R2 of

0.987, indicating that 98.7% of the variations in energy consumption from 1996 to 2011 are explained by the variables in the model. Furthermore, the model statistics indicate a Mean Absolute Percentage Error ("MAPE") of 0.86%. The multivariate regression model is rerun under normal weather scenario. The normal weather scenario is developed using 31 years of historical weather data. Enersource utilizes hourly weather information from the Lester B. Pearson International Airport weather station located in Mississauga.

b) For 2009 and 2010 see attached table.

For 2011, see response to Board Staff Issue 3.1 IR #24, preamble question (attached table).

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #19

Vulnerable Energy Consumers Coalition (VECC)

3. Operating Revenue

Issue 3.1 Is the proposed load forecast for 2013 and 2014, including billing determinants, appropriate?

Reference: Exhibit 3, Tab 1, Schedule 1, pages 3 - 10/ Exhibit 3, Tab 1, Schedule 2, pages 1 - 5

Preamble: In the first reference the model appears to be based on “energy purchases” (e.g. see page 3, Table 1). However, in the second reference the model appears to be based on energy consumption (i.e. energy delivered to customers (e.g., see page 2, Table 1). However the historical values reported are the same in each case.

a) Please clarify whether the system energy model discussed in these two references is based on energy purchases or energy delivered to customers (i.e., purchases less losses).

b) If based on consumption (i.e. delivered energy) please explain how the hourly “purchased” energy values were converted to “delivered” energy.

c) Please confirm that the historical values used to estimate the model (and shown in the references) included impacts of any CDM activities undertaken up to that point in time. If not, how were the actual values adjusted to remove the impact of CDM?

d) Please provide a schedule that sets out the 2009, 2010 and 2011 historical values for each of the independent variables used in the model and also set out the projected values for the independent variables used to determine the 2012 and 2013 forecasts for energy purchases/consumption. In the same schedule please include the actual (where applicable) and projected energy purchases/consumption for each year.

e) Using the same data sources and methodology as for 2013, please provide the projected values for each of the independent variables for 2014.

f) Using the model and the projected 2014 values for the independent variables please provide a forecast for 2014 energy purchases/consumption.

Response:

- a) Please refer to Board Staff Issue 3.1 IR #21.
- b) The system energy model was not based on delivered energy. Please refer to Board Staff Issue 3.1 IR #21.
- c) Impacts of CDM activities were included in the model.
- d) See attached table.
- e) See attached table.
- f) See attached table.

VECC Reference #19 Historical Values 2009 to 2011											
Year	Month	Actual_Monthly Energy	MonthlyTimeTrend	Population	EmpLand	MajOff	MonthlyGDP	MonthlyDBCubed	MonthlyBuildUp	MonthlyCDD	MonthlyHDD
2009	1	709,322	13.08	722,637	221,599	98,315	69,979	(31,597.57)	(252.50)	0.00	564.81
2009	2	619,803	13.17	723,203	221,600	98,436	69,979	(9,084.38)	(90.96)	0.00	370.04
2009	3	662,783	13.25	723,764	221,611	98,556	69,979	(457.15)	17.99	0.00	278.59
2009	4	594,357	13.33	724,319	221,631	98,673	70,294	28,914.50	218.59	1.02	96.79
2009	5	601,189	13.42	724,867	221,660	98,789	70,294	92,465.04	420.23	7.39	8.19
2009	6	639,917	13.50	725,410	221,698	98,903	70,294	181,540.54	516.02	36.00	0.00
2009	7	661,873	13.58	725,946	221,747	99,016	71,523	228,415.49	593.87	44.11	0.00
2009	8	709,006	13.67	726,477	221,805	99,127	71,523	296,571.70	652.78	94.86	0.00
2009	9	633,269	13.75	727,002	221,872	99,238	71,523	160,016.35	517.15	21.17	1.97
2009	10	626,309	13.83	727,521	221,950	99,347	72,588	26,990.49	263.16	0.00	61.48
2009	11	617,383	13.92	728,034	222,038	99,456	72,588	10,990.90	197.62	0.00	117.75
2009	12	667,132	14.00	728,542	222,135	99,565	72,588	(3,730.37)	(59.46)	0.00	374.00
2010	1	691,770	14.08	729,043	222,243	99,673	73,341	(15,767.61)	(138.52)	0.00	460.00
2010	2	623,690	14.17	729,539	222,360	99,781	73,341	(3,016.08)	(107.64)	0.00	373.91
2010	3	643,430	14.25	730,030	222,488	99,889	73,341	7,487.32	123.74	0.00	180.02
2010	4	589,692	14.33	730,514	222,625	99,997	73,870	44,184.96	306.84	0.00	30.01
2010	5	651,639	14.42	730,994	222,773	100,106	73,870	176,959.12	488.82	45.00	19.06
2010	6	675,489	14.50	731,467	222,931	100,215	73,870	227,103.06	586.15	57.48	0.00
2010	7	780,227	14.58	731,935	223,098	100,326	73,973	420,526.96	724.76	172.88	0.00
2010	8	752,466	14.67	732,397	223,275	100,437	73,973	365,924.13	684.16	138.30	0.00
2010	9	634,077	14.75	732,854	223,462	100,549	73,973	160,973.93	514.47	32.61	0.00
2010	10	608,998	14.83	733,306	223,659	100,669	74,315	42,917.68	335.21	0.00	30.67
2010	11	627,864	14.92	733,752	223,865	100,795	74,315	6,062.31	132.28	0.00	167.80
2010	12	669,803	15.00	734,193	224,081	100,946	74,315	(5,393.94)	(108.58)	0.00	420.59
2011	1	701,079	15.08	734,629	224,305	101,121	75,329	(21,577.46)	(181.55)	0.00	514.53
2011	2	628,060	15.17	735,059	224,539	101,321	75,329	(11,337.19)	(147.87)	0.00	411.04
2011	3	659,056	15.25	735,484	224,782	101,541	75,329	(20.54)	(11.03)	0.00	318.57
2011	4	601,746	15.33	735,903	225,033	101,781	75,370	16,582.30	191.79	0.00	111.28
2011	5	616,436	15.42	736,318	225,292	102,041	75,370	105,571.54	414.61	12.25	6.26
2011	6	657,499	15.50	736,728	225,560	102,321	75,370	230,092.15	586.35	58.02	0.00
2011	7	786,007	15.58	737,132	225,836	102,611	75,543	474,755.21	752.31	202.99	0.00
2011	8	729,979	15.67	737,531	226,119	102,906	75,543	333,133.33	683.98	120.52	0.00
2011	9	634,092	15.75	737,926	226,410	103,206	75,543	184,528.20	539.63	38.50	0.00
2011	10	618,879	15.83	738,315	226,707	103,514	75,910	60,595.06	345.23	2.55	43.69
2011	11	608,435	15.92	738,700	227,011	103,826	75,910	19,490.40	213.30	0.00	107.13
2011	12	639,222	16.00	739,080	227,322	104,143	75,910	1,275.62	27.73	0.00	284.95

VECC Reference #19 forecasted 2012 and 2013 Values

Year	Month	Forecast_Monthly Energy	MonthlyTimeTrend	Population	EmpLand	MajOff	MonthlyGDP	MonthlyDBCubed	MonthlyBuildUp	MonthlyCDD	MonthlyHDD
2012	1	692,256	16.08	739,455	227,597	104,421	76,469	(4,748.21)	(149.22)	0.00	465.71
2012	2	638,232	16.17	739,825	227,877	104,649	76,469	(2,949.71)	(117.85)	0.00	406.00
2012	3	658,847	16.25	740,190	228,162	104,797	76,469	482.72	22.53	0.00	279.00
2012	4	599,727	16.33	740,551	228,452	104,902	77,145	14,508.82	212.46	0.00	79.48
2012	5	607,646	16.42	740,907	228,745	104,984	77,145	80,235.56	409.45	0.00	0.09
2012	6	639,032	16.50	741,259	229,042	105,047	77,145	208,813.81	564.10	38.10	0.00
2012	7	718,493	16.58	741,606	229,342	105,089	77,852	318,236.58	669.93	115.12	0.00
2012	8	683,003	16.67	741,949	229,644	105,119	77,852	262,823.23	634.25	72.65	0.00
2012	9	603,135	16.75	742,287	229,948	105,151	77,852	127,762.82	486.77	6.50	0.00
2012	10	617,141	16.83	742,621	230,254	105,179	78,592	23,421.27	276.77	0.00	49.43
2012	11	638,916	16.92	742,950	230,560	105,201	78,592	1,646.27	104.15	0.00	204.27
2012	12	653,306	17.00	743,275	230,867	105,241	78,592	(507.63)	(52.20)	0.00	365.21
2013	1	691,544	17.08	743,597	231,360	105,359	79,519	(4,748.21)	(152.76)	0.00	465.71
2013	2	628,837	17.17	743,913	231,853	105,557	79,519	(2,932.47)	(115.14)	0.00	393.42
2013	3	655,664	17.25	744,226	232,343	105,827	79,519	482.72	22.40	0.00	279.00
2013	4	602,207	17.33	744,535	232,831	106,137	80,281	14,508.82	212.46	0.00	79.48
2013	5	609,199	17.42	744,840	233,315	106,475	80,281	80,235.56	409.45	0.00	0.09
2013	6	641,611	17.50	745,141	233,795	106,830	80,281	208,813.81	564.10	38.10	0.00
2013	7	726,264	17.58	745,437	234,271	107,200	81,019	318,236.58	669.93	115.12	0.00
2013	8	686,703	17.67	745,731	234,740	107,510	81,019	262,823.23	634.25	72.65	0.00
2013	9	618,791	17.75	746,020	235,203	107,810	81,019	127,762.82	486.77	6.50	0.00
2013	10	626,315	17.83	746,306	235,658	108,085	81,740	23,421.27	276.77	0.00	49.43
2013	11	654,492	17.92	746,588	236,105	108,335	81,740	1,646.27	104.15	0.00	204.27
2013	12	676,112	18.00	746,866	236,542	108,560	81,740	(507.63)	(52.20)	0.00	365.21

VECC Reference #19, Projected 2014 Values											
Year	Month	Forecast Monthly Energy	MonthlyTimeTrend	Population	EmpLand	MajOff	MonthlyGDP	MonthlyDBCubed	MonthlyBuildUp	MonthlyCDD	MonthlyHDD
2014	1	706,036	18.08	747,141	236,761	108,670	82,431	(4,748.21)	(152.76)	0.00	465.71
2014	2	641,002	18.17	747,412	236,968	108,734	82,431	(2,932.47)	(115.14)	0.00	393.42
2014	3	665,816	18.25	747,680	237,163	108,771	82,431	482.72	22.40	0.00	279.00
2014	4	610,072	18.33	747,945	237,345	108,796	83,119	14,508.82	212.46	0.00	79.48
2014	5	611,991	18.42	748,206	237,512	108,820	83,119	80,235.56	409.45	0.00	0.09
2014	6	647,898	18.50	748,464	237,664	108,842	83,119	208,813.81	564.10	38.10	0.00
2014	7	727,073	18.58	748,719	237,798	108,864	83,785	318,236.58	669.93	115.12	0.00
2014	8	682,608	18.67	748,971	237,915	108,885	83,785	262,823.23	634.25	72.65	0.00
2014	9	618,512	18.75	749,220	238,012	108,905	83,785	127,762.82	486.77	6.50	0.00
2014	10	621,145	18.83	749,466	238,090	108,924	84,442	23,421.27	276.77	0.00	49.43
2014	11	644,756	18.92	749,709	238,145	108,942	84,442	1,646.27	104.15	0.00	204.27
2014	12	673,513	19.00	749,949	238,178	108,959	84,442	(507.63)	(52.20)	0.00	365.21

WorkingDays	MonthlyDwPtCubed	Month_Feb	Month_Aug2003	Month_Apr	Month_Nov1996	Month_Dec1999	XMissing	YMissing
21.00	(91,723.45)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19.00	(41,783.05)	1.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	(35,589.88)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	(2,113.38)	0.00	0.00	1.00	0.00	0.00	0.00	0.00
20.00	12,372.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	57,515.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	88,102.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	134,320.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	64,986.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	10,297.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	2,837.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	(22,315.47)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	(49,263.19)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19.00	(18,767.67)	1.00	0.00	0.00	0.00	0.00	0.00	0.00
23.00	(8,571.52)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	2,388.30	0.00	0.00	1.00	0.00	0.00	0.00	0.00
20.00	42,890.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	97,766.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	184,245.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	172,350.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	67,476.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	12,152.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	1,001.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	(22,926.10)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	(59,932.02)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19.00	(44,600.98)	1.00	0.00	0.00	0.00	0.00	0.00	0.00
23.00	(19,839.90)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	2,832.35	0.00	0.00	1.00	0.00	0.00	0.00	0.00
21.00	46,751.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	73,320.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	134,998.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	119,106.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	86,744.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	21,164.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.00	4,126.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	(5,402.54)	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WorkingDays	MonthlyDwPtCubed	Month_Feb	Month_Aug2003	Month_Apr	Month_Nov1996	Month_Dec1999	XMissing	YMissing
22.00	(21,114.84)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
20.00	(18,618.88)	1.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	(4,332.18)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
21.00	51.82	0.00	0.00	1.00	0.00	0.00	0.00	1.00
22.00	14,287.93	0.00	0.00	0.00	0.00	0.00	0.00	1.00
21.00	60,544.92	0.00	0.00	0.00	0.00	0.00	0.00	1.00
21.00	107,152.74	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	98,666.72	0.00	0.00	0.00	0.00	0.00	0.00	1.00
19.00	42,420.48	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	3,821.71	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	(61.81)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
17.00	(4,963.71)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	(21,114.84)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
19.00	(18,384.38)	1.00	0.00	0.00	0.00	0.00	0.00	1.00
21.00	(4,332.18)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	51.82	0.00	0.00	1.00	0.00	0.00	0.00	1.00
22.00	14,287.93	0.00	0.00	0.00	0.00	0.00	0.00	1.00
20.00	60,544.92	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	107,152.74	0.00	0.00	0.00	0.00	0.00	0.00	1.00
21.00	98,666.72	0.00	0.00	0.00	0.00	0.00	0.00	1.00
20.00	42,420.48	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	3,821.71	0.00	0.00	0.00	0.00	0.00	0.00	1.00
21.00	(61.81)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
18.00	(4,963.71)	0.00	0.00	0.00	0.00	0.00	0.00	1.00

WorkingDays	MonthlyDwPtCubed	Month_Feb	Month_Aug2003	Month_Apr	Month_Nov1996	Month_Dec1999	XMissing	YMissing
22.00	(21,114.84)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
19.00	(18,384.38)	1.00	0.00	0.00	0.00	0.00	0.00	1.00
21.00	(4,332.18)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	51.82	0.00	0.00	1.00	0.00	0.00	0.00	1.00
21.00	14,287.93	0.00	0.00	0.00	0.00	0.00	0.00	1.00
21.00	60,544.92	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	107,152.74	0.00	0.00	0.00	0.00	0.00	0.00	1.00
20.00	98,666.72	0.00	0.00	0.00	0.00	0.00	0.00	1.00
21.00	42,420.48	0.00	0.00	0.00	0.00	0.00	0.00	1.00
22.00	3,821.71	0.00	0.00	0.00	0.00	0.00	0.00	1.00
20.00	(61.81)	0.00	0.00	0.00	0.00	0.00	0.00	1.00
20.00	(4,963.71)	0.00	0.00	0.00	0.00	0.00	0.00	1.00

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #20

Vulnerable Energy Consumers Coalition (VECC)

3. Operating Revenue

Issue 3.1 Is the proposed load forecast for 2013 and 2014, including billing determinants, appropriate?

Reference: Exhibit 3, Tab 1, Schedule 2, pages 5 - 7

- a) Please provide a schedule that sets out, for each year when there were either third tranche or OPA funded CDM programs the energy savings achieved in that year and the persisting savings in each subsequent year through to 2014. (Note: The last program year in the Table should be 2011).
- b) For purposes of forecasting energy purchases/consumption, did Enersource continue to increase the value of the "trending variable" (see page 6, lines 1-3) for the years 2012 and 2013 or hold the value constant at the historical 2011 value?
- c) If the value of the trending variable was not held constant at the 2011 level, please explain why the model's projections for 2012 and 2013 are not considered to capture any incremental CDM impacts for programs after 2011.
- d) If the value of the trending variable was not held constant at the 2011 level when projecting energy purchases/consumption for 2012 and 2013 please provide the model's forecast results for 2012, 2013 and 2014 when the year-end 2011 value for the trending variable is used for 2012, 2013 and 2014 in conjunction with the Enersource's forecast values for the other independent variables used in the model.
- e) Please provide a copy of the OPA's report regarding Enersource's 2011 CDM programs. If the final report is not available, please provide the most recent year-to-date report for 2011 released by the OPA.

Response:

- a) Please see Attachment 1.
- b) The trending variable coefficient is derived using actual data from 1996-2011 and held constant for 2012-2013 projections.
- c) Not applicable.
- d) Not applicable.
- e) See Attachment 2.

Table 1: MWh Savings

			Annual/Persistence Savings											
Program Year	Program Name	Initiative Name	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014		
2005	Third Tranche Residential	Insulation Blankets	308	308	308	308	308	308	0	0	0	0		
		Aerator	109	109	109	109	109	109	109	109	109	109		
		CFL-13W (60W):	1,256	1,256	1,256	1,256	377	0	0	0	0	0		
		Shower Heads	589	589	589	589	589	589	589	589	589	589		
	Third Tranche Social Housing	Insulation Blankets	15	15	15	15	15	15	0	0	0	0		
		Aerator	2	2	2	2	2	2	2	2	2	2		
		CFL-13W (60W):	18	18	18	18	5	0	0	0	0	0		
		Faucette Washers	22	22	22	22	22	22	0	0	0	0		
		Piping (m):	3	3	3	3	3	3	0	0	0	0		
		Shower Heads	29	29	29	29	29	29	29	29	29	29		
2006	Third Tranche 500 - 4999	Leveraging Energy Conservation (BIP)	0	247	247	247	247	247	0	0	0	0		
	Third Tranche 50 - 499	Leveraging Energy Conservation (BIP)	0	284	284	284	284	284	0	0	0	0		
	Third Tranche 50 - 499	SMART Meter Commercial	0	460	460	460	460	460	460	460	460	460		
	Second Generation Residential	Insulation Blankets	0	487	487	487	487	487	487	0	0	0	0	
		Aerator	0	52	52	52	52	52	52	52	52	52	52	
		CFL Bulb Drop	0	1,536	1,536	1,536	1,536	461	0	0	0	0	0	
		CFL-13W (60W):	0	747	747	747	747	224	0	0	0	0	0	
		Piping (m):	0	45	45	45	45	45	45	0	0	0	0	
		Seasonal LED Exchange	0	105	105	105	105	105	105	105	105	105	105	
		Shower Heads	0	895	895	895	895	895	895	895	895	895	895	
		Third Tranche < 50 kW	Leveraging Energy Conservation (BIP)	0	25	25	25	25	25	0	0	0	0	
		On-the-Bill (Financing) Payment Plan	0	24	24	24	24	24	0	0	0	0	0	
	Third Tranche Residential	Insulation Blankets	0	91	91	91	91	91	91	0	0	0	0	
		Aerator	0	14	14	14	14	14	14	14	14	14	14	
		CFL-13W (60W):	0	401	401	401	401	120	0	0	0	0	0	
		Peaksaver Progr. T-Stats	0	9	9	9	9	9	9	9	9	9	9	
		Piping (m):	0	9	9	9	9	9	9	0	0	0	0	
		Residential Load Control	0	297	297	297	297	297	297	297	297	297	297	
		Shower Heads	0	192	192	192	192	192	192	192	192	192	192	
		SMART (Electric) Avenue	0	0	0	0	0	0	0	0	0	0	0	
		Third Tranche Social Housing	Insulation Blankets	0	38	38	38	38	38	38	0	0	0	0
			Aerator	0	9	9	9	9	9	9	9	9	9	9
	CFL-13W (60W):		0	111	111	111	111	33	0	0	0	0	0	
	Dec-06 Lighting Retrofit of Res. Building		0	41	41	41	41	41	0	0	0	0	0	
	Piping (m):		0	8	8	8	8	8	8	0	0	0	0	
	Shower Heads		0	139	139	139	139	139	139	139	139	139	139	
	2007	Third Tranche Distributed Energy	Large Users >5000 kW	0	0	0	0	0	0	0	0	0	0	
			Stand-by Generators (DR) GS <50 kW	0	0	0	0	0	0	0	0	0	0	0
Stand-by Generators (DR) GS 50-499 kW			0	0	0	0	0	0	0	0	0	0	0	
Third Tranche 50 - 499		On-the-Bill (Financing) Payment Plan	0	0	0	0	0	0	0	0	0	0		
Third Tranche 500 - 4999		Leveraging Energy Conservation (BIP)	0	0	1	1	1	1	1	0	0	0		
		Load Control Initiative (DR)	0	0	0	0	0	0	0	0	0	0	0	
Second Generation Residential		Insulation Blankets	0	0	611	611	611	611	611	611	0	0	0	
		Aerator	0	0	82	82	82	82	82	82	82	82	82	
		CFL Bulb Drop	0	0	9,306	9,306	9,306	9,306	2,792	0	0	0	0	
		CFL-13W (60W):	0	0	1,063	1,063	1,063	1,063	319	0	0	0	0	
		Piping (m):	0	0	51	51	51	51	51	51	0	0	0	
		Shower Heads	0	0	1,074	1,074	1,074	1,074	1,074	1,074	1,074	1,074	1,074	
		Third Tranche < 50 kW	On-the-Bill (Financing) Payment Plan	0	0	13	13	13	13	13	0	0	0	
Third Tranche Residential		LED Exchange	185	185	185	185	185	185	185	185	185	185	185	
		Residential Load Control	0	0	1,658	1,658	1,658	1,658	1,658	1,658	1,658	1,658	1,658	
Third Tranche Social Housing		Insulation Blankets	0	0	0	0	0	0	0	0	0	0	0	
		Aerator	0	0	0	0	0	0	0	0	0	0	0	
		CFL-13W (60W):	0	0	2	2	2	2	1	0	0	0	0	
		CFL-13W Exchange:	0	0	0	0	0	0	0	0	0	0	0	
		CFL-23W Exchange:	0	0	0	0	0	0	0	0	0	0	0	
		Clarkson Home (Wawel Villa)	0	0	76	76	76	76	76	0	0	0	0	
		Moby (Erin Court)	0	0	348	348	348	348	348	0	0	0	0	
		Piping (m):	0	0	0	0	0	0	0	0	0	0	0	
		Shower Heads	0	0	0	0	0	0	0	0	0	0	0	
		Turtle Creek (Wawel Villa)	0	0	125	125	125	125	125	125	0	0	0	

2010	Consumer	Cool Savings Rebate	0	0	0	0	0	1,961	1,961	1,961	1,961	1,961	
		Every Kilowatt Counts Power Savings Event	0	0	0	0	0	745	655	634	634	634	
		Great Refrigerator Roundup	0	0	0	0	0	1,262	1,262	1,262	1,259	1,009	
		LDC Custom - Hydro Ottawa - Small Commercial De	0	0	0	0	0	0	0	0	0	0	
	Business	High Performance New Construction	0	0	0	0	0	2,314	2,314	2,314	2,314	2,314	
		Power Savings Blitz	0	0	0	0	0	2,771	2,771	2,771	2,771	2,771	
	Business, Industrial	Demand Response 2	0	0	0	0	0	10,937	0	0	0	0	
	Demand Response 3	0	0	0	0	0	388	0	0	0	0		
	Loblaw & York Region Demand Response	0	0	0	0	0	0	0	0	0	0		
	Consumer, Business	Electricity Retrofit Incentive peaksaver®	0	0	0	0	0	7,892	7,892	7,892	7,892	7,892	
	Consumer, Consumer Low-Income		0	0	0	0	0	7	7	7	7	7	
	Consumer, Consumer Low-Income, Business, Indu	Multi-Family Energy Efficiency Rebates	0	0	0	0	0	7,345	7,345	7,345	7,345	7,345	
	Consumer, Consumer Low-Income, Business, Indu	Toronto Comprehensive	0	0	0	0	0	0	0	0	0	0	
2011	Consumer	1.01 Conservation Instant Coupon Booklet Initiative	0	0	0	0	0	0	0	0	0	0	
		1.02 HVAC Incentives Initiative (Heating and Cooling	0	0	0	0	0	0	2	2	2	2	
		1.03 Bi-Annual Retailer Event Initiative	0	0	0	0	0	0	1	1	1	1	
		1.04 Appliance Retirement Initiative - Fridge / Freezer	0	0	0	0	0	0	1	1	1	1	
		1.05 Appliance Exchange Initiative	0	0	0	0	0	0	0	0	0	0	
		1.06 Home Energy Assessment Tool Initiative	0	0	0	0	0	0	0	0	0	0	
		1.07 Residential and Commercial DR - Peaksaver +	0	0	0	0	0	0	0	0	0	0	
		1.08 Midstream Electronics Initiative	0	0	0	0	0	0	0	0	0	0	
		1.09 Midstream Pool Equipment Initiative	0	0	0	0	0	0	0	0	0	0	
		1.10 Residential New Construction	0	0	0	0	0	0	0	0	0	0	
		1.11 Peaksaver 2011	0	0	0	0	0	0	0	0	0	0	
		1.12 Home Assistance Program	0	0	0	0	0	0	0	0	0	0	
	Business, Institutional	2.01 Efficiency: Equipment Replacement Incentive I	0	0	0	0	0	0	5	5	5	5	
		2.02 Direct Install Lighting and Water Heating Initiati	0	0	0	0	0	0	8	8	8	8	
		2.03 Direct Service Space Cooling Initiative	0	0	0	0	0	0	0	0	0	0	
		2.04 Building Commissioning Initiative**	0	0	0	0	0	0	0	0	0	0	
		2.05 New Construction Initiative	0	0	0	0	0	0	0	0	0	0	
		2.06 Residential and Small Commercial Demand Re	0	0	0	0	0	0	0	0	0	0	
		2.07 Demand Response 1 Initiative**	0	0	0	0	0	0	0	0	0	0	
		2.08 Demand Response 3 Initiative**	0	0	0	0	0	0	0	0	0	0	
		2.09 Efficiency: Energy Audit Initiative**	0	0	0	0	0	0	0	0	0	0	
		2.10 ERIP + HPNC + MEER, 2010	0	0	0	0	0	0	13	13	13	13	
	Industrial	3.01 PSUI: Preliminary Engineering Study Initiative	0	0	0	0	0	0	0	0	0	0	
		3.02 PSUI : Detailed Engineering Study Initiative	0	0	0	0	0	0	0	0	0	0	
		3.03 PSUI: Project Incentive Initiative	0	0	0	0	0	0	0	0	0	0	
		3.04 PSUI: Monitoring & Targeting Initiative	0	0	0	0	0	0	0	0	0	0	
		3.05 PSUI: Metering & Instrumentation Library	0	0	0	0	0	0	0	0	0	0	
		3.06 PSUI: Energy Manager Initiative	0	0	0	0	0	0	0	0	0	0	
		3.07 PSUI: Key Account Manager Initiative	0	0	0	0	0	0	0	0	0	0	
		3.08 Efficiency: Equipment Replacement Incentive I	0	0	0	0	0	0	1	1	1	1	
		3.09 Building Commissioning Initiative**	0	0	0	0	0	0	0	0	0	0	
		3.10 Efficiency Energy Audit**	0	0	0	0	0	0	0	0	0	0	
		3.11 Demand Response 1 Initiative**	0	0	0	0	0	0	0	0	0	0	
		3.12 Demand Response 3 Initiative**	0	0	0	0	0	0	0	0	0	0	
	Grand Total			2,536	23,827	48,166	58,493	85,755	100,004	79,551	72,715	71,255	69,162

Table 2: MW Savings

[illegible]

[illegible]

		2.05 New Construction Initiative	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		2.06 Residential and Small Commercial Demand Re	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		2.07 Demand Response 1 Initiative**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		2.08 Demand Response 3 Initiative**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.3730	0.0000	0.0000	0.0000
		2.09 Efficiency: Energy Audit Initiative**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		2.10 ERIIP + HPNC + MEER, 2010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.3350	2.3350	2.3350	2.3350
	Industrial	3.01 PSUI: Preliminary Engineering Study Initiative	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.02 PSUI : Detailed Engineering Study Initiative	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.03 PSUI: Project Incentive Initiative	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.04 PSUI: Monitoring & Targeting Initiative	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.05 PSUI: Metering & Instrumentation Library	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.06 PSUI: Energy Manager Initiative	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.07 PSUI: Key Account Manager Initiative	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.08 Efficiency: Equipment Replacement Incentive I	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4350	0.4350	0.4350	0.4350
		3.09 Building Commissioning Initiative**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.10 Efficiency Energy Audit**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.11 Demand Response 1 Initiative**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		3.12 Demand Response 3 Initiative**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.8400	0.0000	0.0000	0.0000
	Grand Total			0.0877	24.3269	33.1026	52.2875	52.9779	52.5053	33.6347	26.3992	26.2931



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Ontario Power Authority Q4 2011 Conservation & Demand Management Status Report

January 1, 2011 to December 31, 2011

Enersource Hydro Mississauga Inc.

2011 At a Glance

The following tables show progress to OEB targets first: following the OPA reporting practice of 1 year persistence for demand response and second: assuming demand response remains in your territory until 2014 .

Unverified 2014 Peak Demand Savings Target Achieved (%):	6.1%
Unverified 2011-2014 Cumulative Energy Target Achieved (%):	25.3%
Assuming Demand Response resources remain in your territory until 2014:	
Unverified 2014 Peak Demand Savings Target Achieved (%):	12.8%
Unverified 2011-2014 Cumulative Energy Target Achieved (%):	25.4%
Standing:	
	20 of 77
	9 of 77

Message from the Vice President

The OPA Conservation team is pleased to provide the Q4 2011 CDM Status Report. Province-Wide programs are showing success and we are well positioned to meet our 2011-14 targets, thanks to the efforts of the OPA and you, the LDCs. A "Standing" column has been included in this report (in the table above) which reflects your position based on the percent of target achieved. This is based on preliminary results and is intended to provide you with a snapshot of how your LDC is performing relative to the others in the province.

We have achieved 80% of our 2011 Province-Wide programs peak demand savings forecast - more data will be available as projects progress through the final stages of approval. We will continue to update preliminary 2011 data (which will be reflected in the "Program-to-Date" columns) until the results are verified later this year.

We invite you to continue to look for opportunities to improve this report to meet your needs and welcome your suggestions. Additionally, if you are having any concerns with roll-out or have a particular success to share, please contact the OPA Conservation Business Development team at ldc.support@powerauthority.on.ca.

- Andrew Pride
 Vice President, Conservation
 Ontario Power Authority



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About this Report:

This report contains:

- Peak demand and energy savings for OPA-Contracted Province-Wide programs (does not incl. Ontario Energy Board (OEB) approved CDM programs or other conservation efforts undertaken by an LDC).
- Unverified quarterly results discounted using forecasted net-to-gross ratios. Once full Evaluation, Measurement & Verification (EM&V) occurs in the following year, results will be identified as final (verified).
- Data presented in this report represents program activity (i.e. projects completed, appliances picked up) completed on or before December 31, 2011 and received and entered into the OPA processing systems as per the dates specified in table 5.
- Updates to the previous quarter's participation due to more data availability.

Future reports will contain:

- More data for the Home Assistance Program
- **peaksaver** PLUS preliminary results representing all participants that are enrolled in **peaksaver** PLUS.
- Full, bar-code specific 2011 Coupon and Bi-Annual Retailer Event data (Retailers have until March 31, 2012 to submit coupons redeemed in 2011 to the OPA). Results are currently provincially allocated; once bar-code specific data is gathered, results can be attributed to a particular LDC. Data will be available to LDCs once retailers have submitted the coupons and QA/QC by the OPA is undertaken.

New this quarter based on LDC feedback:

- Demand response is now reported only in the "YTD Incremental" column. This value represents the total demand response under contract in your LDC territory as of the end of the current reporting period.
- The allocation methodology used to attribute non-bar code specific coupon redemptions from the Instant Coupon Booklet and Bi-Annual Retailer Event to each LDC was updated to reflect each LDC's proportion of the average 2008 and 2009 residential throughput as per the OEB yearbook.
- Table 5 on the final page of this report is intended to assist the LDC in reconciling internal data sources with the data contained in this report by communicating: **1.** The date in which the OPA considers savings to 'start'; **2.** At what point the data becomes available to the OPA; **3.** The date in which the data was collected for reporting purposes; **4.** The expected probability and magnitude of updates to the data as more information becomes available.

Reporting Methodology (Quarterly, Unverified results):

The OPA's policy on reporting preliminary results for prescriptive measures (i.e. standard technologies and items) is to determine the activity (i.e. appliances collected, projects completed, coupons redeemed, etc.) in the most detail possible and multiply these values by Prescriptive Input Assumptions (PIAs) and net-to-gross (NTG) ratios that were used to forecast the programs if available.

$$\text{Preliminary Net Savings} = \text{Activity} * \text{Gross per unit PIA} * \text{Net-to-gross ratio}$$

For engineered or custom projects, the calculated savings from each participant worksheet are summed and then multiplied by the forecasted net-to-gross ratio used for program planning purposes.



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2011-2014 Summary

2011 Quarter 4

January 1, 2011 to December 31, 2011

This section provides a portfolio level view of net peak demand savings and net energy savings procured through Tier 1 programs to date.

Table 1 presents preliminary net peak demand savings results from 2011 to date by implementation period. This table also presents the net annual peak demand savings that are expected to persist through to 2014 from program activity completed to date. Please note that demand response 1 and 3 have a persistence of 1 year.

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

#	Implementation Period	Annual			
		2011	2012	2013	2014
1	2011 - Reported - Quarter 1	5.78	1.23	1.23	1.23
2	2011 - Reported - Quarter 2	7.48	1.57	1.57	1.57
3	2011 - Reported - Quarter 3	8.65	1.92	1.92	1.92
4	2011 - Reported - Quarter 4	7.15	0.93	0.93	0.93
5	2012				
6	2013				
7	2014				
Annual Reported (Unverified)		11.86			
Annual Final (Verified)		n/a			
Unverified Net Annual Peak Demand Savings in 2014:					5.65
2014 Annual CDM Capacity Target:					92.98
Unverified 2014 Peak Demand Savings Target Achieved (%):					6.1%

Table 2 presents preliminary net annual energy savings results from 2011 to date by implementation period. This table also presents 2011-2014 net cumulative energy savings expected in 2014 from program activity completed to date.

Table 2: Net Energy Savings at the End-User Level (GWh)

#	Implementation Period	Annual				Cumulative
		2011	2012	2013	2014	2011-2014
1	2011 - Reported - Quarter 1	5.18	5.09	5.09	5.09	20.36
2	2011 - Reported - Quarter 2	6.74	6.64	6.64	6.64	26.54
3	2011 - Reported - Quarter 3	9.98	9.86	9.86	9.86	39.42
4	2011 - Reported - Quarter 4	4.90	4.78	4.78	4.78	19.24
5	2012					
6	2013					
7	2014					
Annual Reported (Unverified)		26.48				
Annual Final (Verified)		n/a				
Unverified Net Cumulative Energy Savings 2011-2014:						105.57
2011-2014 Cumulative CDM Energy Target:						417.22
Unverified 2011-2014 Cumulative Energy Target Achieved (%):						25.3%



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2011-2014 Summary

2011 Quarter 4

January 1, 2011 to December 31, 2011

Figure 1 presents unverified net annual peak demand savings achieved and expected persistence through to 2014 for program activity completed to date. The 2014 annual peak demand savings target as per OEB is also presented.

Figure 1: Net Peak Demand Savings (MW)

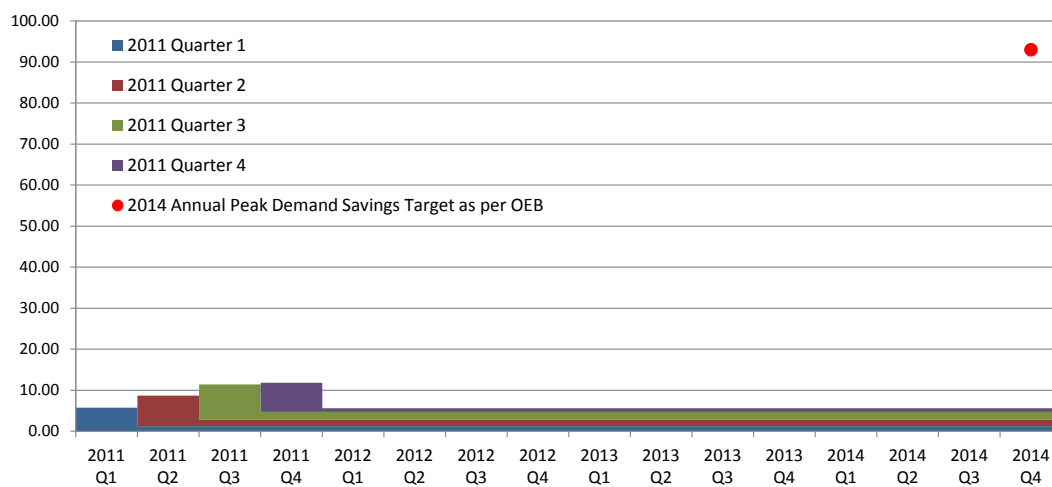


Figure 2 presents unverified net cumulative energy savings achieved including expected persistence to 2014 from program activity completed to date. The 2011-2014 cumulative energy savings target as per OEB is also presented.

Figure 2: Net Cumulative Energy Savings (GWh)

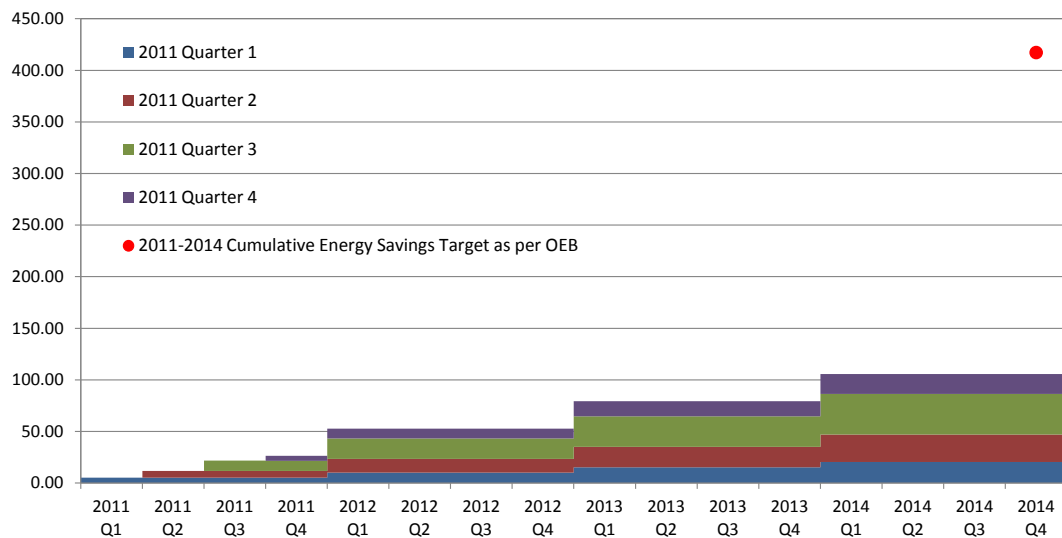


Table 3: Enersource Hydro Mississauga Inc. Initiative and Program Level Savings

Shaded areas indicate data is not yet available

All results are NET and presented at the end-user level

All results are NET and presented at the end user level										
#	Initiative	Activity			Net Peak Demand Savings (kW)			Net Energy Savings (kWh)		
		Unit	Incremental (Current Quarter)	Program-to- Date (2011- to-Date):	Incremental (Current Quarter)	YTD Incremental (2011-to-Date)	Program-to-Date: unverified annual savings in 2014	Incremental (Current Quarter)	YTD Incremental (2011-to-Date)	Program-to-Date: unverified cumulative savings in 2014
Consumer Program										
1	Appliance Retirement	Appliances	540	1,799	41	134	134	283,498	938,787	3,755,150
2	Appliance Exchange	Appliances	0	253	0	25	25	0	30,695	122,782
3	HVAC Incentives	Equipment	529	3,689	121	786	786	38,926	1,039,502	4,158,007
4	Conservation Instant Coupon Booklet	Coupons	3,538	4,383	11	14	14	279,348	345,310	1,381,240
5	Bi-Annual Retailer Event	Coupons	7,677	9,882	15	21	21	473,058	622,850	2,491,399
6	Retailer Co-op	Items	0	5	0	0	0	0	1	5
7	peaksaver extension	Devices	0	431	0	336	336	0	6,711	26,843
8	Midstream Electronics	Items			not in market					
9	Midstream Pool Equipment	Items			not in market					
10	Residential New Construction	Houses	0	0	0.00	0.00	0.00	0	0	0
Consumer Program Total					187	1,315	1,315	1,074,830	2,983,857	11,935,426
Business Program										
11	Equipment Replacement Incentive	Projects	27	48	372	743	743	1,372,284	3,459,653	13,838,613
12	Direct Installed Lighting	Projects	388	2,918	215	1,463	1,463	1,589,773	10,848,211	43,392,846
13	Direct Service Space Cooling	Equipment			not in market					
14	Building Commissioning	Buildings	0	0	0	0	0	0	0	0
15	New Construction	Buildings	0	0	0	0	0	0	0	0
16	peaksaver extension	Devices	0	0	0	0	0	0	0	0
17	Demand Response 1	Facilities		0		0	0		0	0
18	Demand Response 3	Facilities		10		2,373	0		74,038	74,038
Business Program Total					587	4,580	2,207	2,962,057	14,381,902	57,305,496
Industrial Program										
19	Process & System Upgrades	Projects	0	0	0	0	0	0	0	0
20	Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0
21	Energy Manager	Managers	0	0	0	0	0	0	0	0
22	Equipment Replacement Incentive	Projects	3	12	24	130	130	101,608	525,081	2,100,322
23	Demand Response 1	Facilities		0		0	0		0	0
24	Demand Response 3	Facilities		8		3,840	0		39,936	39,936
Industrial Program Total					24	3,970	130	101,608	565,017	2,140,258
Home Assistance Program										
25	Home Assistance Program	Units	0	0	0	0	0	0	0	0
Home Assistance Program Total					0	0	0	0	0	0
Pre-2011 Programs completed in 2011										
25	Electricity Retrofit Incentive Program	Projects	12	87	84	1,549	1,549	307,137	5,737,444	22,949,776
26	High Performance New Construction	Projects	2	17	51	369	369	336,404	2,598,650	10,394,599
27	Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0
28	Multifamily Energy Efficiency Rebates	Projects	0	2	0	82	82	0	211,520	846,082
Pre-2011 Programs completed in 2011 Total					135	1,999	1,999	643,541	8,547,614	34,190,457
OPA-Contracted Province-Wide Portfolio Total					933	11,863	5,650	4,782,036	26,478,389	105,571,637

Table 4: Province-Wide Initiative and Program Level Savings

Shaded areas indicate data is not yet available

All results are NET and presented at the end-user level

All results are NET and presented at the end-user level										
#	Initiative	Activity			Net Peak Demand Savings (kW)			Net Energy Savings (kWh)		
		Unit	Incremental (Current Quarter)	Program-to-Date (2011-to-Date):	Incremental (Current Quarter)	YTD Incremental (2011-to-Date)	Program-to-Date: unverified annual savings in 2014	Incremental (Current Quarter)	YTD Incremental (2011-to-Date)	Program-to-Date: unverified cumulative savings in 2014
Consumer Program										
1	Appliance Retirement	Appliances	15,019	56,035	1,194	4,333	4,333	7,716,329	28,872,984	115,491,936
2	Appliance Exchange	Appliances	0	4,715	0	479	479	0	604,709	2,418,836
3	HVAC Incentives	Equipment	7,397	56,127	1,717	12,512	12,512	1,134,038	17,784,401	71,137,602
4	Conservation Instant Coupon Booklet	Coupons	90,106	144,467	269	468	468	7,114,454	11,358,484	45,433,938
5	Bi-Annual Retailer Event	Coupons	195,529	337,358	374	791	791	12,047,863	21,685,594	86,742,376
6	Retailer Co-op	Items	0	152	0	0	0	0	41	162
7	peaksaver extension	Devices	10	18,435	8	14,352	14,352	156	287,033	1,148,132
8	Midstream Electronics	Items			not in market					
9	Midstream Pool Equipment	Items			not in market					
10	Residential New Construction	Houses	5	5	0.04	0.04	0.04	557	557	2,227
Consumer Program Total					3,561	32,934	32,934	28,013,397	80,593,802	322,375,209
Business Program										
11	Equipment Replacement Incentive	Projects	243	944	1,845	8,223	8,223	7,170,097	37,650,286	150,601,145
12	Direct Installed Lighting	Projects	2,422	18,667	1,546	10,407	10,407	11,414,663	77,311,193	309,244,770
13	Direct Service Space Cooling	Equipment			not in market					
14	Building Commissioning	Buildings	0	0	0	0	0	0	0	0
15	New Construction	Buildings	0	0	0	0	0	0	0	0
16	peaksaver extension	Devices	0	121	0	201	201	0	4,029	16,117
17	Demand Response 1	Facilities		0		0	0		0	0
18	Demand Response 3	Facilities		145		21,390	0		667,368	667,368
Business Program Total					3,391	40,222	18,832	18,584,760	115,632,876	460,529,401
Industrial Program										
19	Process & System Upgrades	Projects	0	0	0	0	0	0	0	0
20	Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0
21	Energy Manager	Managers	0	0	0	0	0	0	0	0
22	Equipment Replacement Incentive	Projects	35	179	439	1,636	1,636	2,056,245	7,800,798	31,203,192
23	Demand Response 1	Facilities		0		0	0		0	0
24	Demand Response 3	Facilities		125		67,276	0		699,670	699,670
Industrial Program Total					439	68,912	1,636	2,056,245	8,500,468	31,902,862
Home Assistance Program										
25	Home Assistance Program	Units	494	494	1	1	1	18,047	18,047	72,188
Home Assistance Program Total					1	1	1	18,047	18,047	72,188
Pre-2011 Programs completed in 2011										
25	Electricity Retrofit Incentive Program	Projects	29	483	397	5,079	5,079	1,441,254	19,451,459	77,805,835
26	High Performance New Construction	Projects	28	220	650	4,723	4,723	4,306,415	33,266,180	133,064,719
27	Toronto Comprehensive	Projects	27	576	1,559	13,774	13,774	13,405,628	83,570,866	334,283,463
28	Multifamily Energy Efficiency Rebates	Projects	0	110	0	1,886	1,886	0	7,218,883	28,875,534
Pre-2011 Programs completed in 2011 Total					2,606	25,461	25,461	19,153,297	143,507,388	574,029,551
OPA-Contracted Province-Wide Portfolio Total					9,998	167,529	78,863	67,825,747	348,252,582	1,388,909,212



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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.

Current Reporting Period: the calendar quarter specified on page 1 of this report.

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).

Final Savings: savings achieved that have undergone annual Evaluation, Measurement & Verification (EM&V) and thus have had activity audited and savings assumptions measured and verified.

Implementation Period: the particular calendar quarter or calendar year that conservation activity is achieved based on when the savings are considered to 'start' (please see table 5).

Incremental: the new resource savings attributable to activity procured in a particular reporting period based on when the savings are considered to 'start' (please see table 5).

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

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-to-Date: the reporting period from January 1, 2011 until the end of the Current Reporting Period.

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

Reported Savings: savings achieved that are based on reported activity and forecasted savings assumptions. These savings are not verified, i.e. have not undergone the Evaluation, Measurement & Verification processes.

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 5: Data Qualifiers for Initiatives currently in market

For Example: Preliminary results for Retrofit are reported in this quarter if a project is completed on or before Dec. 31, 2011 and had the iCON status "Approved for payment by LDC" or "Released for Payment" as of Jan. 20, 2012. There is a high probability that there are more results coming in for this initiative.

Initiative	Savings 'start' Date	Data Available	As of:	Updates:
Consumer Program				
Conservation Instant Coupon Booklet	Invoice date from coupon clearinghouse	Once data is submitted to the OPA by retailers	Dec. 21, 2011	High
Bi-Annual Retailer Event				
Appliance exchange initiative	Event date		Dec. 16, 2011	Low
Retailer co-op activities	Will vary by specific project	Varies by specific project	Dec. 31, 2011	Low
Appliance Retirement	Pick-up date	When database is queried	Jan. 11, 2012	Moderate
HVAC Incentives	Installation date	Customers submit rebate and invoices are processed	Oct. 31, 2011	High
<i>peaksaver</i> extension	Device installation date	Upon payment to LDC	Jan. 26, 2012	Moderate
New construction	Project completion	Preliminary Billing Report issued to LDC	Jan. 2, 2012	Low
Home Assistance Program				
Home Assistance Program	Project Completion Date	TBD	Jan. 23, 2012	High
Business (Commercial & Institutional) Program				
Direct Installed Lighting	Project Completion Date	Work-order: invoiced, approved and paid to LDC	Dec. 1, 2011	High
Equipment Replacement Incentive		"Approved for Payment by LDC" or "Released for Payment" status on iCON	Jan. 20, 2012	High
Process & Systems Upgrades			Jan. 20, 2012	Low
Building Commissioning		Upon payment to LDC	Jan. 20, 2012	Moderate
New Construction		Upon payment to LDC	Jan. 20, 2012	Low
<i>peaksaver</i> extension	Device installation Date	Upon payment to LDC	Jan. 26, 2012	Moderate
Demand Response (DR1, DR3)	Facility is available under contract	Facility under contract with aggregator	Dec. 31, 2011	Low
Pre-2011 Projects Completed in 2011				
High Performance New Construction	Project Completion Date	Upon payment to LDC	Jan. 16, 2012	High
Electricity Retrofit Incentive Program			Jan. 13, 2012	High
Multifamily Energy Efficiency Rebates			Nov. 2011	Low
Toronto Comprehensive			Jan. 11, 2012	High
Industrial Program				
Equipment Replacement Incentive	Project Completion Date	"Approved for Payment by LDC" or "Released for Payment" status on iCON	Jan. 20, 2012	High
Process & System Upgrades	In Service Date		Jan. 20, 2012	Low
Monitoring & Targeting	2nd year Report	Report submitted	Jan. 20, 2012	Low
Demand Response (DR1, DR3)	Facility is available under contract	Facility available under contract	Dec. 31, 2011	Low
Energy Manager	Quarterly Report Date	Report submitted quarterly	Jan. 20, 2012	Low

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #21

Vulnerable Energy Consumers Coalition (VECC)

3. Operating Revenue

**Issue 3.1 Is the proposed load forecast for 2013 and 2014, including
billing determinants, appropriate?**

Reference: Exhibit 3, Tab 1, Schedule 2, pages 7 - 10

- a) Please provide a schedule that sets out, for the energy forecasts for 2012 and 2013 (similar to Table 5) but based on an 11 and 31 year average of HDD and CDD values

Response:

- a) Enersource believes that its application of the normal weather methodology, using 31 years data, is a common, accepted protocol, as is evidenced by the practices of Environment Canada, the World Meteorological Organization, Navigant, the IESO, Itron, and the Board. In addition, Enersource believes that weather normalization using medians is a more representative profile of normal weather.

On the other hand, the use of averages can result in placing greater emphasis on extreme weather conditions and/or measurement errors.

Enersource has been utilizing this load forecast process since 2004 and has found it to be robust and effective. Since 2004, the forecasts have produced energy consumption forecasts within 0.3% of actual energy purchases and 1.7% to weather-corrected energy purchases.

For all of these reasons, Enersource is not providing the requested schedule.

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #22

Vulnerable Energy Consumers Coalition (VECC)

3. Operating Revenue

**Issue 3.1 Is the proposed load forecast for 2013 and 2014, including
billing determinants, appropriate?**

Reference: Exhibit 3, Tab 1, Schedule 2, Tables 1 & 4 /Exhibit 3, Tab 1, Schedule 2, pages 11-13 and Attachments C - H

a) The note in column 2 of Table 4 suggests that the energy consumption forecast by customer class comes from Table 1. However, Table 1 sets out the forecast results using the system energy model and does not provide class specific forecasts. Please reconcile and explain how the class specific forecasts were derived and how Enersource ensured the sum of the class-specific values totaled to the results of its system energy forecast.

b) Pages 11-13 discuss the individual class models developed by Enersource. There is no "class model" for Street Lighting". Please explain how its class energy consumption is forecast.

c) Pages 11-13 discuss the individual class models developed by Enersource. Please provide a schedule that sets out Enersource's forecast energy consumption by customer class for 2012, 2013 and 2014 based on these models and show the total for each year based (solely) on the sum of the results of the individual class models. (Note: As there is no "model" per se for Street Lighting, please include the 2012-2014 for this class based on the response to part (b)).

d) Please confirm that several of the customer class models used a time-trend variable as one of the independent explanatory variables (per Attachments C - H).

e) If not already done in response to part (c), please re-do part (c) but, where a trend variable is used, set the value for 2012-2014 at the year-end value for 2011.

Response:

- a), b) and c) Please see to Board Staff IR #29c).
- d) Confirmed.
- e) Please see to Board Staff IR #29c). Furthermore, Enersource regression models for each rate class were developed solely to determine a weather-correction normalization for rate classes using 7 years of actual energy sales data by customer class.

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #23

Vulnerable Energy Consumers Coalition (VECC)

3. Operating Revenue

Issue 3.1 Is the proposed load forecast for 2013 and 2014, including billing determinants, appropriate?

Reference: Exhibit 3, Tab 1, Schedule 2, page 12

- a) Please provide a schedule that for each demand billed class sets out the kW to kWh ratio for each of the years 2007-2011.
- b) Based on the CDM energy savings for 2013 set out in Table 4 please indicate the billing kW reductions attributable to CDM in 2013 for each demand billed class.

Response:

- a) Please see attachment.
- b) The billing kW reductions attributable to CDM energy savings in 2013 for each demand class are as follows:

<u>2013</u>	<u>kWh Savings</u>	<u>kW Savings</u>
Residential	(35,842,920)	
Small Commercial	-	
Unmetered Scattered Load	-	
GS < 50	(39,519,293)	
GS 50-499	(6,718,613)	(19,284)
GS 500-4999	(7,166,687)	(16,135)
Large User	(8,983,655)	(15,417)
Street Lighting	(20,915,195)	(61,001)
	(119,146,362)	(111,837)

Enersource Hydro Mississauga

Ref: Exhibit 3, Tab 1, Schedule 2, page 12

Question (a)

Reviewer - note below

Please note the question did not specify whether on actual or weather-normalized, however both comparison were done we can present both or elect to use either one

ACTUAL COMPARISON				
2007				
Table xx: Historic relationship between Actual Billed kWh and kW by Rate Class (2007 - 2011)				
Rate Class	Actual Energy Sales kWh	Actual Demand KW	Demand as Percentage of Actual Energy Sales %	
General Service 50-499 kW	2,363,219,355	6,487,946	0.27%	
General Service 500-4999 kW	2,507,509,194	5,400,270	0.22%	
Large User	1,031,619,677	1,747,676	0.17%	
Street-Lighting	40,276,452	109,052	0.27%	
Total	5,942,624,677	13,744,945	0.23%	
2008				
Table xx: Historic relationship between Billed kWh and kW Demand by Rate Class (2007 - 2011)				
Rate Class	Actual Energy Sales kWh	Actual Demand KW	Demand as Percentage of Actual Energy Sales %	
General Service 50-499 kW	2,298,548,871	6,355,155	0.28%	
General Service 500-4999 kW	2,384,183,548	5,277,864	0.22%	
Large User	1,071,190,323	1,842,419	0.17%	
Street-Lighting	40,809,194	109,605	0.27%	
Total	5,794,731,935	13,585,043	0.23%	
2009				
Table xx: Historic relationship between Billed kWh and kW Demand by Rate Class (2007 - 2011)				
Rate Class	Actual Energy Sales kWh	Actual Demand KW	Demand as Percentage of Actual Energy Sales %	
General Service 50-499 kW	2,188,033,452	6,352,348	0.29%	
General Service 500-4999 kW	2,251,678,318	5,081,457	0.23%	
Large User	1,024,236,074	1,800,927	0.18%	
Street-Lighting	40,684,789	110,507	0.27%	
Total	5,504,632,633	13,345,239	0.24%	
2010				
Table xx: Historic relationship between Billed kWh and kW Demand by Rate Class (2007 - 2011)				
Rate Class	Actual Energy Sales kWh	Actual Demand KW	Demand as Percentage of Actual Energy Sales %	
General Service 50-499 kW	2,207,381,098	6,303,886	0.29%	
General Service 500-4999 kW	2,286,532,969	5,084,891	0.22%	
Large User	1,087,915,337	1,831,545	0.17%	
Street-Lighting	41,020,740	111,465	0.27%	
Total	5,622,850,145	13,331,786	0.24%	
2011				
Table xx: Historic relationship between Billed kWh and kW Demand by Rate Class (2007 - 2011)				
Rate Class	Actual Energy Sales kWh	Actual Demand KW	Demand as Percentage of Actual Energy Sales %	
General Service 50-499 kW	2,209,416,418	6,265,460	0.28%	
General Service 500-4999 kW	2,247,174,574	4,997,505	0.22%	
Large User	1,053,299,632	1,837,737	0.17%	
Street-Lighting	41,273,806	112,096	0.27%	
Total	5,551,164,431	13,212,798	0.24%	

WEATHER NORMALIZED COMPARISON				
2007				
Table xx: Historic relationship between Weather Normalized Billed kWh and kW by Rate Class (2007 - 2011)				
Rate Class	Weather Normalized Energy Sales kWh	Weather Normalized Demand KW	Demand as Percentage of Weather Normalized Energy Sales %	
General Service 50-499 kW	2,331,830,000	6,401,770	0.27%	
General Service 500-4999 kW	2,505,450,000	5,395,836	0.22%	
Large User	1,047,600,000	1,774,749	0.17%	
Street-Lighting	40,276,452	109,052	0.27%	
Total	5,925,156,452	13,681,407	0.23%	
2008				
Table xx: Historic relationship between Billed kWh and kW Demand by Rate Class (2007 - 2011)				
Rate Class	Weather Normalized Energy Sales kWh	Weather Normalized Demand KW	Demand as Percentage of Weather Normalized Energy Sales %	
General Service 50-499 kW	2,302,650,000	6,366,494	0.28%	
General Service 500-4999 kW	2,380,720,000	5,270,197	0.22%	
Large User	1,066,030,000	1,833,543	0.17%	
Street-Lighting	40,809,194	109,605	0.27%	
Total	5,790,209,194	13,579,840	0.23%	
2009				
Table xx: Historic relationship between Billed kWh and kW Demand by Rate Class (2007 - 2011)				
Rate Class	Weather Normalized Energy Sales kWh	Weather Normalized Demand KW	Demand as Percentage of Weather Normalized Energy Sales %	
General Service 50-499 kW	2,222,330,000	6,451,919	0.29%	
General Service 500-4999 kW	2,266,880,000	5,115,763	0.23%	
Large User	1,038,590,000	1,826,166	0.18%	
Street-Lighting	40,684,789	110,507	0.27%	
Total	5,568,484,789	13,504,355	0.24%	
2010				
Table xx: Historic relationship between Billed kWh and kW Demand by Rate Class (2007 - 2011)				
Rate Class	Weather Normalized Energy Sales kWh	Weather Normalized Demand KW	Demand as Percentage of Weather Normalized Energy Sales %	
General Service 50-499 kW	2,171,290,000	6,200,816	0.29%	
General Service 500-4999 kW	2,275,490,000	5,060,333	0.22%	
Large User	1,079,730,000	1,817,765	0.17%	
Street-Lighting	41,020,740	111,465	0.27%	
Total	5,567,530,740	13,190,379	0.24%	
2011				
Table xx: Historic relationship between Billed kWh and kW Demand by Rate Class (2007 - 2011)				
Rate Class	Weather Normalized Energy Sales kWh	Weather Normalized Demand KW	Demand as Percentage of Weather Normalized Energy Sales %	
General Service 50-499 kW	2,187,200,000	6,202,459	0.28%	
General Service 500-4999 kW	2,240,390,000	4,982,417	0.22%	
Large User	1,054,640,000	1,840,076	0.17%	
Street-Lighting	41,271,191	112,089	0.27%	
Total	5,523,501,191	13,137,040	0.24%	

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #24

Vulnerable Energy Consumers Coalition (VECC)

3. Operating Revenue

Issue 3.1 Is the proposed load forecast for 2013 and 2014, including billing determinants, appropriate?

Reference: Exhibit 3, Tab 1, Schedule 2, pages 14-15

- a) Using the same approach please provide average and year-end customer counts by class for 2014.
- b) Please provide a schedule that sets out, for each year when there were either third tranche or OPA funded CDM programs the energy savings achieved in that year and the persisting savings in each subsequent year through to 2014. (Note: The last program year in the Table should be 2011)

Response:

- a) Please see revised Exhibit 3 Tab 1 Schedule 2 Attachments 6 and 7 with average and year-end customer counts by class including 2014. See also the response to Energy Probe Issue 3.1 IR #3b).
- b) Please see VECC Issue 3.1 IR #20a).

Attachment 6 - Actual and Forecast Average Number of Customers &/or Connections by Rate Class, 2007 to 2014

Year	Residential	Small Commercial	GS<50	GS 50-499	GS 499-5000	Large User	Total	% Growth	USL	Date:	
										SL	
2007	162,262	192	16,034	3,977	467	9	182,940		2,865	48,178	
2008 COS	166,825	180	16,081	3,986	470	9	187,551		3,108	48,255	
2008	164,329	184	16,181	3,954	469	10	185,125	1.2%	2,874	48,370	
2009	167,085	177	16,471	3,912	482	10	188,136	1.6%	2,889	48,688	
2010	169,768	174	16,730	3,991	483	10	191,156	1.6%	2,915	49,000	
2011	172,346	170	17,000	3,986	472	11	193,983	1.5%	2,933	49,230	
2012	174,659	168	17,287	3,947	464	10	196,534	1.3%	2,937	49,507	
2013	176,865	168	17,534	3,950	464	9	198,990	1.2%	2,942	49,985	
2014	179,387	168	17,777	3,953	464	9	201,758	1.4%	2,940	50,488	

Attachment 7 - Actual and Forecast Year-End Number of Customers &/or Connections by Rate Class, 2007 to 2014

Year	Residential	Small Commercial	GS<50	GS 50-499	GS 499-5000	Large User	Total	% Growth	USL	Date:	
										SL	
2007	162,775	190	16,043	4,041	460	9	183,518		2,865	48,184	
2008 COS	170,380	180	16,152	3,986	475	9	191,182		3,113	48,475	
2008	165,882	177	16,318	3,867	477	10	186,731	1.8%	2,882	48,556	
2009	168,288	176	16,624	3,956	486	10	189,540	1.5%	2,896	48,819	
2010	171,247	172	16,836	4,026	480	10	192,771	1.7%	2,934	49,181	
2011	173,444	168	17,163	3,945	463	11	195,194	1.3%	2,931	49,279	
2012	175,874	168	17,412	3,948	464	9	197,875	1.4%	2,943	49,736	
2013	177,856	168	17,657	3,951	464	9	200,104	1.1%	2,940	50,235	
2014	180,917	168	17,898	3,954	464	9	203,411	1.7%	2,940	50,740	

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #25

Vulnerable Energy Consumers Coalition (VECC)

3. Operating Revenue

Issue 3.1 Is the proposed load forecast for 2013 and 2014, including billing determinants, appropriate?

Reference: Exhibit 3, Tab 1, Schedule 2, pages 29-31

- a) Attachments 2 through 5 all include a footnote that states – “Sales figures above include losses”. Please clarify what this means (e.g. are the values grossed up to include losses as opposed to representing metered/delivered values?).
- b) Based on the responses to the preceding interrogatories please provide the 2014 values for Attachments 2-7 inclusive.

Response:

- a) Please refer to response to Board Staff Issue 3.1 IR #21 b.
- b) Please see revised Exhibit 3 Tab 1 Schedule 2 Attachments 2 to 5 to include a 2014 forecast, and see Energy Probe Issue 3.1 IR #3b). Please refer to VECC Issue 3.1 IR #24 for Attachments 6 and 7.

Attachment 5**Actual and Forecast Weather-Normalized Sales by Rate Class, Net of CDM Impact, 2008 to 2013 (kW)**

Year	GS 50-499	GS 499-5000	Large User	SL	TOTAL
2008 COS	6,418,332	5,310,121	1,720,956	115,190	13,564,599
2008	6,366,494	5,270,197	1,833,543	109,605	13,579,840
2009	6,451,919	5,115,763	1,826,166	110,507	13,504,355
2010	6,200,816	5,060,333	1,817,765	111,465	13,190,379
2011	6,202,459	4,982,417	1,840,076	112,089	13,137,040
2012	6,092,264	5,113,673	1,712,059	93,639	13,011,635
2013	6,142,022	5,154,338	1,737,267	49,889	13,083,516
2014	6,160,080	5,168,206	1,744,994	35,429	13,108,709

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #26

Vulnerable Energy Consumers Coalition (VECC)

3. Operating Revenue

Issue 3.1 Is the proposed load forecast for 2013 and 2014, including billing determinants, appropriate?

Reference: Exhibit 3, Tab 1, Schedule 2, page 31

- a) How many suite metered Residential customers does Enersource have as of year-end 2011 (i.e., Residential customers in large multi-residential buildings)?
- b) What is the projected average number of Residential suite-metered customers for 2012, 2013 and 2014?

Response:

- a) As of December 31, 2011, Enersource had 7,023 individual metered suites ("IMS") in newly constructed condominium multi-residential buildings. By the end of 2011, Enersource also had installed 1,115 retrofit IMS in existing multi-residential buildings.
- b) The projected average number of residential IMS customers for 2012 to 2014 is as follows:

2012	Start of Bridge Year 2012	Growth	Start of Test Year 2013	Average 2012
New Condos	7,023	1,670	8,693	7,858
Retrofits	1,115	250	1,365	1,240
Total	8,138	1,920	10,058	9,098

2013	Start of Test Year 2013	Growth	End of Test Year 2013	Average 2013
New Condos	8,693	1,232	9,925	9,309
Retrofits	1,365	250	1,615	1,490
Total	10,058	1,482	11,540	10,799

2014	Start of 2014	Growth	End of Year 2014	Average 2014
New Condos	9,925	2,316	12,241	11,083
Retrofits	1,615	250	1,865	1,740
Total	11,540	2,566	14,106	12,823

**Enersource Hydro Mississauga Inc.
 Response to Interrogatories by Issue**

Interrogatory # 11

**Energy Probe Research Foundation
 (Energy Probe)**

4. Operating Costs

4.1 Is the proposed 2013 and 2014 OM&A forecast appropriate?

Ref: Exhibit 4, Tab 1, Schedule 10

- a) Please provide the most recent year-to-date costs available in the same level of detail as shown in Table 2 for 2012, along with the corresponding costs for the same period in 2011.
- b) Has Enersource received its invoice for OEB assessed costs for 2012 yet? If yes, please provide the assessment for 2012.
- c) Please provide the costs incurred to date related to the current cost of service application for each of the line items shown in Table 3.
- d) Please explain what costs are included in the "Intervenor and Legal Costs" line in Table 2 since these costs exclude costs for the current application.

Response:

- a) The requested year-to-date figures are provided in the table below.

Regulatory Affairs	YTD June 2012	YTD June 2011
Salaries	153	130
Benefits	60	47
Conferences	0	1
Publication of Notices	11	3
Intervenor and Legal Costs	73	24
ESA Costs	49	49
OEB Assessed Costs	387	376
Total Regulatory Affairs	734	628

b) Enersource has received two invoices to date during 2012 for OEB assessment costs. Enersource was invoiced for assessment costs of \$191 for the three month period from January 1 – March 31, 2012. This invoice represents the fourth assessment of the OEB's costs for its fiscal year commencing April 1, 2011. Enersource was also invoiced for assessment costs of \$195 for the three month period from April 1 – June 30, 2012. This invoice represents the first assessment of the OEB's costs for its fiscal year commencing April 1, 2012 and ending March 31, 2013.

c) The requested year-to-date figures are provided in the table below:

COS Application Expenses	YTD June 2012
Other Costs (Publications, Printing)	6
Legal Costs	46
Total	52

d) Intervenor and Legal Costs in Table 2 are the annual non-COS related costs incurred by Enersource. These include legal advice and assistance in the IRM proceedings each year, cost awards for intervenors in those proceedings, cost awards for intervenor parties in other OEB proceedings and initiatives that are assessed and allocated to Enersource, and any legal support procured for Enersource's participation in OEB proceedings (that are not Enersource's own rate applications).

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory # 16

**Energy Probe Research Foundation
(Energy Probe)**

4. Operating Costs

4.1 Is the proposed 2013 and 2014 OM&A forecast appropriate?

Ref: Exhibit 4, Tab 3, Schedule 1

- a) Does an aging workforce mean that longer tenured, more experienced personnel are being replaced by people with less tenure and less experience when the retirements take place?
- b) What is the impact on the average salaries, wages and benefits of the replacements noted in part (a) above?
- c) Please provide a table for 2008 through 2011 that shows the number of people eligible for retirement and number of those that actually did retire in that year.
- d) How many apprentice positions are included in the budget for 2012, 2013 and 2014?
- e) Please provide the annual increase for non-union employees in 2008 through 2011 if "comparable" as used on page 14 is not equivalent to the "same" increases as for unionized employees. Please also provide the annual increase used for 2013.
- f) What assumptions for the pension contribution rates, as shown in Table 6, have been assumed and incorporated into the 2013 forecast?

Response:

- a) The priority for recruitment is on identifying candidates who have comparable qualifications and experience as the retiring employee. However, given the

labour shortage, particularly in the trades, candidates with lesser qualifications may be selected to backfill the role.

- b) For union positions, where lesser qualified employees are initially hired, the salary would be lower. The provisions of the Collective Agreement require that new employees reach Job Rate in 2.5 years. Similarly, non-union employees typically reach 100% of Job Level in 2 years. Health and dental benefit cost premiums would remain the same as they are not dependent on experience.
- c) See the response to SEC Issue 4.1 IR 44. The majority of employees did retire in the year that they were eligible to retire.
- d) In response to the second time Energy Probe has asked this question, see Energy Probe Issue 4.1 IR #6b).
- e) See Energy Probe Issue 4.1 IR 35c).
- f) See the table below. The assumptions made for the forecasted 2013 rates are based on the previous year's costs.

Pension Contribution Rates 2008 to 2013

	2008	2009	2010	2011	2012	2013
Up to CPP earnings limit	6.50%	6.30%	6.40%	7.40%	8.30%	9.80%
Above CPP earnings limit	9.70%	9.50%	9.70%	10.70%	12.80%	15.23%

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory # 1

**Energy Probe Research Foundation
(Energy Probe)**

4. Operating Costs

4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Ref: Exhibit 1, Tab 1, Schedule 9

- a) Are any of the costs associated with the Enersource Corporation Board of Directors included in the revenue requirement for 2013 or 2014? If yes, please provide the amount, the total amount of costs associated with the Enersource Corporation Board of Directors and the allocation methodology used to determine the amount to be allocated to the regulated distributor.
- b) How many members are on Enersource Hydro Mississauga's Board of Directors?
- c) What is the total cost included in the revenue requirement in 2013 and 2014 associated with Enersource Hydro Mississauga's Board of Directors? Please identify where in OM&A these costs are included.

Response:

- a) OM&A costs for Enersource Corporation are allocated through management fee to Enersource. The portion of Enersource Corporation's costs (allocation methodology) that have been allocated to Enersource can be found at Exhibit 4 Tab 4 Schedule 1 Appendix 2-L. Since Board of Director costs are included as part of total OM&A for Enersource Corporation, these costs will be included in the portion of OM&A costs allocated from Enersource Corporation to Enersource, and included in the revenue requirement. The total amount of costs for Enersource Corporation's Board of Directors for 2013 is \$158 of which \$148 will be allocated to Enersource through management fees.

Enersource is not asking for any increases to OM&A for 2014, so there will be no impact to 2014 revenue requirement for this cost.

- b) Enersource has three members on its Board of Directors of which one is independent.
- c) The total cost included in the revenue requirement in 2013 for Enersource's independent member is \$6. As mentioned above, there is no increase to OM&A for 2014. This cost is included in Enersource's Executive and Administration operating costs.

1. Percentages used to allocate the portion of compensation charged by Enersource Corporation to Enersource Hydro Mississauga is based on the total percentage allocation from Exhibit 4, Tab 4, Schedule 1, Appendix 2-L pages 1-8								
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**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory # 3

**Energy Probe Research Foundation
(Energy Probe)**

4. Operating Costs

4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Ref: Exhibit 4, Tab 3, Schedule 1, Appendix 2-K, page 2

- a) Is there any overlap in the employees shown for Enersource Corporation with the employees shown on page 1 for Enersource Hydro Mississauga? If yes, please explain why this is appropriate.
- b) Are the total compensation and total compensation charged to OM&A shown at the bottom of the table on page 2 all charged to Enersource Hydro Mississauga? If no, please add two lines to the schedule to show the amount charged to Enersource Hydro Mississauga.
- c) How is the incentive pay for Enersource Corporation determined? Please provide an explanation of the performance measures used similar to that provided on page 15 of Exhibit 4, Tab 3, Schedule 1.
- d) Are any of the incentive pay costs allocated to Enersource Hydro Mississauga? If yes, does this include any incentive payments related to the net income of Enersource Corporation?

Response:

- a) There is no overlap in the employees shown for Enersource Corporation and Enersource.
- b) Please see attached table that shows the amount of Enersource Corporation's total compensation charged to Enersource.
- c) The incentive pay for Enersource Corporation is based on the same criteria as Enersource which is provided on page 15 of Exhibit 4 Tab 3 Schedule 1.

- d) A percentage of all revenues and costs of Enersource Corporation, which includes incentive pay costs, are allocated to Enersource. Please see Exhibit 4 Tab 4 Schedule 1 Appendix 2-L for the percentage and dollar amounts of costs allocated from Enersource Corporation to Enersource from 2008 through 2013.

Free disposal of your old and unwanted fridge

The **Fridge & Freezer Pickup** program allows Mississauga residents to dispose of old, inefficient and power-hungry fridges and freezers at no cost. To qualify for a free pick up of your old fridge and/or freezer, the appliance must meet the following criteria:

- the unit is 15 years or older
- it is between 10-27 cubic feet in size
- the unit is in working condition (plugged in 24 hours prior to pick up).

Window air conditioners and dehumidifiers may also be picked up along with your fridge/freezer, if they meet the following requirements:

- the unit is 10 years or older
- it is in working condition at the time of pick up
- window air conditioners must be removed from the window prior to pick up and must be located near a power source.

Disposal of these items will be performed in an environmentally sound fashion.



Privacy

Today, more than at any other time in history, information, especially online data, is being exchanged at an exponential rate. The question people are asking more frequently is, "How is my confidential information kept secure?"

Enersource is committed to respecting the privacy of individuals through the protection of personal information. With the introduction of smart meters, our privacy awareness and protocols have been heightened even further.

Ontario's electricity distributors are required by law to ensure that smart meters and associated communication networks are equipped with security features to prevent unauthorized access. We must also comply with federal laws regarding the privacy, protection and disclosure of personal information. In addition, the only information communicated via secure technology is your meter number and your electricity usage (the same information that was displayed on the old conventional meter at your premises).

Likewise, our online billing system has been rigorously tested to ensure your privacy. Enersource uses Secure Socket Layer (SSL) protocols with 128-bit encryption, the most secure method available to protect your account information.

All of our employees are trained to fully understand their role in complying with our Privacy Policy. Compliance with our Privacy Policy and procedures is monitored by our Privacy Officer who is responsible for investigating any and all customer concerns on the matter.

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New rates in effect

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news, resources &
helpful conservation tips

Spring/Summer 2012

Make **the connection** to a more **energy-efficient** home.

in this issue:

- TOU
- Becoming more energy efficient
- Privacy

...and more!

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New electricity rates in effect May 1

On April 19, 2012, the Ontario Energy Board (OEB) announced changes to electricity rates across the province. At the same time, the OEB approved other rate changes affecting Enersource customers.

Currently, there are two rate structures for electricity consumption in Ontario – Time-of-Use (TOU) and two-tiered rates. Most Enersource residential customers have already been switched to TOU pricing, with the remainder being transitioned by the end of May 2012.

Effective May 1, 2012, all customers in Ontario on TOU rates, will be charged as follows:

- On-peak (11 a.m. to 5 p.m. weekdays) = 11.7¢/kWh (an increase of 0.9¢).
- Mid-peak (7-11 a.m. & 5-7 p.m. weekdays) = 10.0¢/kWh (an increase of 0.8¢).
- Off-peak (7 p.m. to 7 a.m. weekdays, weekends & statutory holidays) = 6.5¢/kWh (an increase of 0.3 ¢).

The OEB reports that the electricity cost for customers on TOU rates will rise by approximately \$3.99 per month, assuming consumption of 800 kWh.

Enersource purchases the electricity we supply to customers at market prices and does not make an economic profit on the sale of electricity to consumers. Instead, a utility recovers its costs within the delivery charge of electricity, accounting for approximately 20% of your bill. **Enersource's delivery rate is being decreased by approximately \$1.72 per month.**

Combined with our rate decreases, the average Enersource residential TOU billed consumer using 800 kWh of electricity per month will see approximately a \$2.27, or 2.1%, net increase on their total bill.

Any residential customers in Ontario who are still being billed using tiered-pricing will be charged as follows:

Effective May 1, 2012, two-tier rates on the Regulated Price Plan (RPP) will increase to:

- 7.5¢/kWh for the first 600 kWh consumed each month (an increase of 0.4¢), and
- 8.8¢/kWh above that (an increase of 0.5¢).

The Ontario Clean Energy Benefit (OCEB) that accounts for a 10% reduction in your electricity bill will continue to be deducted from your bill until further notice.

NOTE: If you purchase your electricity from an energy retailer, you will continue to pay electricity rates and charges in accordance with your contract.

TOU implementation

The transition to Time-of-Use rates began in Mississauga in October 2011, and will be fully implemented for all Enersource customers by mid-summer 2012.

TOU is a mandated Ontario Government initiative designed to create a culture of conservation.

Your smart meter measures hourly electricity use, and prices are set by the OEB based on the time of day, the day of the week and the season. This more closely aligns with the way pricing works in an open electricity market, and will encourage each of us to think more about how and when we use electricity.

Since September 2011, Enersource staff have been attending local community centres to answer questions regarding TOU. Our staff will continue to be available at local community centres until all of Mississauga has been switched over. Please visit <http://www.enersource.com/community/Pages/enersource-in-the-community.aspx> to find out when the TOU team will be in your area.



PEAK HOURS CHART

summer (MAY 1 - OCTOBER 31)	Off-peak (Mon-Fri) 7 p.m. - 7 a.m. (Weekends and Holidays) All day	Mid-peak (Mon-Fri) 7 a.m. - 11 a.m. and 5 p.m. - 7 p.m.	On-peak (Mon-Fri) 11 a.m. - 5 p.m.
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Becoming more energy efficient at home

Enersource and the Ontario Power Authority are working together to offer programs to help you better manage your electricity consumption.

Furnaces and air conditioners can be costly to run, especially if they are not energy efficient. The **Heating & Cooling Incentive** program provides eligible customers up to \$650 in rebates on the purchase of qualifying energy efficient appliances. Participating contractors can help you through the process, including helping you understand which units are eligible for the rebate program. For a list of participating contractors, please visit:

<http://www.hraiheatingcoolingincentive.ca/pages/search.php>



Agency Merger

On April 26, the Ontario government introduced Bill 75, Ontario Electricity System Operator Act, 2012, to merge the Ontario Power Authority (OPA) and the Independent Electricity System Operator (IESO) into a single organization. This merger reportedly will save ratepayers millions of dollars a year and better meet today's electricity supply needs.

If Bill 75 is passed, the new agency will merge the OPA's planning knowledge with the IESO's operational expertise. The mandate of the new, merged agency will be to establish market rules to benefit consumers, align contracts and create an electricity system that is more responsive to changing conditions.

The unofficial name for this new entity is the **Ontario Electricity System Operator (OESO)**.

Electricity Sector Review

The Ontario government is conducting a comprehensive review of the province's electricity sector and will explore options to improve efficiencies, including local distribution company (LDC) consolidation.

The Ontario Distribution Sector Panel was established in late April and will be led by Murray Elston, a former cabinet minister in the David Peterson government. Joining Mr. Elston will be former MPPs, David McFadden and Floyd Laughren. Collectively, these individuals have extensive experience in the electricity sector.

The panel will consult with municipalities, LDCs, associations and other energy experts, and look at a range of issues including:

- Potential long- and short-term financial savings associated with consolidation;
- Benefits for ratepayers;
- Long- and short-term operational efficiencies; and
- Potential risk

The panel has been asked to present a report to the Minister of Energy on its findings within the next 12 months.

Enersource will keep you updated as this process unfolds.

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more than energy

news, resources &
helpful conservation tips
business edition

Spring/Summer 2012

Helping Businesses Achieve Conservation Goals

in this issue:

- TOU implementation
- Small Business Lighting Program
- Understanding Global Adjustment



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Helping Businesses Achieve Conservation Goals

Enersource is assisting many of its business and industrial customers to secure Ontario Power Authority (OPA) funding for energy-efficiency projects.

These projects range from lighting retrofits to more complex process upgrades. Enersource, in cooperation with the OPA, can also make available part-time energy managers at no cost to qualifying businesses. A part-time energy manager will research

potential Conservation & Demand Management (CDM) projects and provide advice and management support for your electricity usage to assist you in achieving your energy-reduction goals. Many business customers in Mississauga have already taken advantage of these opportunities.

Another way Enersource is helping businesses in Mississauga is through Power-Up breakfast sessions to

promote energy-conservation initiatives to its large industrial customers. These sessions provide insights into available energy-conservation programs and the associated funding mechanisms to enable customers to create a sustainable competitive advantage through energy-management best practices. For more information on energy conservation for large scale projects please visit www.saveonenergy.ca/business or email ubaig@enersource.com.



Small Business Lighting Program

Enersource continues to work with the Ontario Power Authority (OPA) and Nedco, our program service provider, to help small businesses in Mississauga become more energy efficient through the Small Business Lighting program. Nedco representatives offer qualifying businesses a range of retrofit options, and then arrange for an approved electrical contractor to perform the retrofit installations.

Among the various incentives under this program, the OPA is offering qualifying small businesses up to **\$1,000 worth of energy-efficient lighting and equipment upgrades at no cost**. Qualifying businesses also get access to other standard incentives for retrofits above the \$1,000 limit, allowing them to save even more energy and money.

A wide variety of businesses with electricity demand of less than 50 kW can participate in the program. Businesses that typically qualify

for the program include clothing stores, independent restaurants, dry cleaners, medical offices, beauty salons, convenience stores, garages and other small retailers.

Please remember that Enersource is working exclusively with Nedco on this program, and that any offers you may see from other companies are not endorsed by Enersource.

To participate in the Small Business Lighting program, or for more information, please call 905-366-1472.



Understanding the Global Adjustment

We receive many questions about the Global Adjustment from our customers. Below, please find information obtained directly from the **Independent Electricity System Operator (IESO)** website – www.ieso.ca.

If you pay the market price (called the Hourly Ontario Energy Price) or have signed a retail contract, your electricity bill also includes a line for the Global Adjustment, which affects the final commodity price you pay.

The IESO updates information on the Global Adjustment on a monthly basis so that consumers can better understand what their final electricity costs may be.

What is the Global Adjustment?

The Global Adjustment accounts for differences between the market price and the rates paid to regulated and contracted generators, and for conservation and demand-management programs. As a result, its value may be positive or negative, depending on the fluctuation of prices in the spot market.

The rate is set to reflect the difference between the market price and:

- The regulated rates paid to Ontario Power Generation's nuclear and hydroelectric base load generating stations;
- Payments made to suppliers that have been awarded contracts through the Ontario Power Authority such as new gas-fired facilities, renewable facilities (like wind farms) and demand-response programs;
- Contracted rates administered by the Ontario Electricity Financial Corporation paid to existing generators.

Who is affected by the Global Adjustment?

It appears as a separate line on the bill for customers who pay the spot market price, and customers who have signed a contract with a licensed electricity retailer. For customers who pay the Regulated Price Plan, it is factored into the rate set by the Ontario Energy Board, and does not appear as a separate line item.

Why does the Global Adjustment vary from month to month?

The Global Adjustment rises and declines in response to changes in spot market prices. When the spot market price of electricity is lower, the Global Adjustment is higher in order to cover the additional costs of energy contracts and other regulated generation. It also changes when new projects come into service and the contract payments take effect.

TOU Implementation

The transition to Time-of-Use (TOU) electricity rates began in Mississauga in October 2011, and will be fully integrated for all Enersource business customers that are classified less than 50 kW per day by mid-summer 2012.

TOU rates are a mandated Ontario Government initiative designed to create a culture of conservation in our province.

With TOU electricity rates, *when* you use electricity is just as important as *how much* electricity you use. Your smart meter measures your electricity use, and the prices for your usage are set based on the time of day, the day of the week and the season.

Visit www.ieso.ca/smallbiz for a simple guide to TOU electricity rates for small businesses. It will show you how TOU pricing works and how electricity usage patterns affect costs.

Many businesses may also reduce their overall electricity bill through conservation and improved energy efficiency. There are several saveONenergy™ programs available to specifically help businesses. For more information, click on www.enersource.saveonenergy.ca/Business.aspx.

Still have questions? You can also go to www.enersource.com/tou, email us at tou@enersource.com, or call us at 905-273-7425.



more than energy

news, resources &
helpful conservation tips

Spring 2011

Ready. Aim. Conserve.

Enersource is committed to keeping you informed and helping you make wise decisions about energy conservation.

One of the ways we do that is by supporting the Ontario government's ongoing efforts to promote conservation through both residential and commercial conservation programs. They're a great way to better manage your energy use and contribute to environmental well-being – and they're successful because of the participation of Mississauga businesses and residents like you.

Ontario has set ambitious conservation targets for the next four years. Enersource is partnering with the Ontario Power Authority (OPA) to develop new and improved programs that focus on meeting these targets. As new programs are launched, we'll let you know about them on our website, Enersource.com.

Green Box Safety

Do you have a green box on your property? Customers who own homes or live in developments with a pad-mounted transformer have an important role to play in helping keep our electricity system a safe and reliable one.

In the event of a power disruption, Enersource needs to move quickly and safely to fix the equipment that is located in the green boxes. We need your help to ensure that landscaping or other obstructions are not placed too close to the pad-mounted transformers.

Here are a few tips:

- Do not plant within three metres of the front of the transformer or 1.5 metres of its back and sides.
- Consider the growth potential of the plants or shrubbery at maturity.
- We recommend you don't do any major plant or tree removal around a transformer until Enersource can assess it.
- Before you plant or dig, call us first!

We also need to be able to see these green boxes from the road. Unobstructed access to transformers helps reduce the duration of outages in our neighbourhoods.



people
community
environment
innovation

Mississauga's green energy revolution grows

The Peel District School Board is the latest organization to join the city's expanding portfolio of renewable energy projects. This rooftop solar installation is located at Ruth Thompson Middle School in Streetsville. The installation consists of 50 solar photovoltaic panels that are designed to generate approximately 11,000 kWh of energy annually. That's enough to power 11 homes for one month.

In total, there are more than 25 microFIT projects currently in operation in Mississauga, generating approximately 53,000 kWh of renewable energy – enough to power 53 homes for a month. MicroFIT is part of Ontario's FIT (Feed-in-Tariff) program, which enables renewable-energy producers to plug into Ontario's power grid. For more information about the microFIT program, please visit Enersource.com.

in this issue:

- new brand delivers more to enersource customers
- easy. efficient. e-billing.
- mississauga's green energy revolution grows

...and more!



New brand delivers more for Enersource customers

Enersource has enjoyed a long history of servicing the City of Mississauga with reliable electricity and energy solutions. Just as our community has changed over the years — evolving from a suburb to one of Canada's largest cities — we've evolved as well!

We're excited to introduce our fresh new look. The first thing you'll notice about it is the dynamic new logo. You'll see it on customer service materials and on our easy-to-use self-service website. It's also on our service vehicles and outside our head office. It's everywhere you need Enersource to be.

About our new logo

Our logo is inspired by the power of the sun. Its rays are made up of a series of coloured dots, with blue representing the people we serve; dark green representing our commitment to our community and the environment; and light green representing innovation and service excellence.



We are more than energy

More than energy isn't just a tagline — it's what we are. Yes, we provide you with reliable energy, but we also show you ways to conserve and help the environment. We support our city and its people through numerous charitable programs and activities. And we continually improve and enhance our business to give you best-in-class service.

Just some of the reasons we're [more than energy](#) – and are proud to deliver it to customers like you.

What's behind the brand?

people

We work with great customers in a great city, supporting them with exceptional service provided by some of the best people in the industry.

community

We give back to our city, whether it's through the Enersource Got Skates program or our work with organizations like the Mississauga Food Bank.

environment

We help our customers conserve energy, because caring for the environment is a responsibility we all share.

innovation

We continually improve our business to give our customers the best possible service.

For more information, check out our new website at [enersource.com](#)

Get **more** online



Our website has been redesigned too!

Our new site is full of useful tips and is simple to use, with large, easy-to-follow on-screen menus and vibrant graphics. So go ahead – browse awhile!

We've made sure that all the information you want is easy to find. Here are some of the features you can access at [Enersource.com](#):

- Sign up for and receive our customer newsletters
- Download forms
- Email Enersource customer service
- Get real-time power outage information
- Use e-billing and view current and historical billing information
- Sign up for preauthorized payment

From news about our programs like **peaksaver®** to advice about energy safety and conservation, our website delivers more to you everyday — **with the simple click of a button.**

Easy. Efficient. E-billing.

Looking for a way to help the environment, save time, reduce paper use and cut down on clutter? Enersource is pleased to introduce e-billing, an easy-to-use tool available through [Enersource.com](#). E-billing lets you view and pay your bills online with your bank quickly and easily. With e-billing you can:

- Access your personal account whenever and virtually wherever you want
- View your personal account history including current and past billing information
- Save money and paper by eliminating mailed payments
- Get our e-newsletter

With [e-billing](#) your bills are no longer mailed. Instead, you receive an email notification. You can then log-in to your personal account, where you can easily review your monthly charges — no stamps, no envelopes, no travel, no hassle. Just an email straight to your inbox to let you know your bill is ready.

And to make your bill payment even more convenient, you can also sign up for [pre-authorized payment](#), which lets you pay your bill automatically and select your own due date. You also have the option of [signing up for equal monthly payments](#), helping you even out monthly expenses and make managing your household budget a little easier.

We've made e-billing simple to use and even easier to sign-up. Visit [enersource.com](#) today to learn more.

Finding More Ways to Save you Money

Did you know that as much as 60% of your annual energy bill goes towards heating and cooling your home? Enersource and the Ontario Power Authority are working together to find better ways for you to save money by helping you become more energy efficient.

With the HEATING & COOLING INCENTIVE, you can receive up to \$650 on eligible replacement central heating systems and ENERGY STAR® qualified central cooling systems. Most importantly, once your installation is complete, you can save up to \$325 a year on your electricity costs. To participate in the HEATING & COOLING INCENTIVE program, please follow these easy steps:

1. Contact a participating contractor to select, purchase and install an eligible replacement system. A list of participating contractors can be found at:
<http://www.hraicoolsavings.ca/pages/search.php>
2. Once your installation is completed, your contractor will complete an online incentive form and ensure that all equipment serial and model numbers are included. Be sure to provide your email address so you can proceed easily to the next steps.
3. An email will be sent asking you to review and approve your incentive details as outlined on your online incentive submission form.
4. Send in your proof of purchase (copy of your invoice) and a copy of the online incentive submission form using one of the following methods:
 - email: heatingcoolingincentive@dhlt.com, or
 - fax: 1-866-945-6474, or
 - mail: 2011 HEATING & COOLING INCENTIVE
P.O. Box 10099 Winona, Ontario L8E 5R1(note: if you choose to send in via mail, we recommend sending it via registered mail)
5. You should receive your incentive rebate in the mail within 4 to 8 weeks (provided the incentive submission is approved).

For more information on the HEATING & COOLING INCENTIVE program, visit www.saveonenergy.ca or call 1-877-797-9473.

Got Skates Program

Enersource is a proud sponsor once again of the Got Skates program.

Skating is a national pastime in Canada, yet many families are unable to afford lessons and the appropriate equipment for their children. Through the Got Skates program, children in grades three and up learn skating basics in a supportive, non-competitive environment. Lessons are provided in arenas across Mississauga, and Enersource financially supports the cost of instruction, skates, helmets and protective gear. The program was first launched in 2005, and each year it enables about 25,000 kids to share the fun and sense of achievement that comes with learning a new sport. If you're a parent, teacher or school principal who would like to get involved in Got Skates, email gotskates.info@mississauga.ca or visit

www.gotskates.ca. This year's program runs from October 2011 to March 2012.



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Winter 2011/12

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in this issue:

- New Rates
- TOU
- Ways to save
- In the Community

...and more!

New Electricity Rates in Effect November 1st

The Ontario Energy Board (OEB) recently approved a change to electricity rates, effective November 1, 2011. At Enersource, we're doing our best to help customers stay informed and understand these changes. Currently, there are two different rate structures across the province as communities transition from tiered-pricing to Time-of-Use (TOU) rates. Enersource is in the process of this transitory period.

If you are billed using tiered-pricing:

Rates are adjusted by the OEB twice a year and are reflected on the "Electricity" line of consumer bills. Beginning in November, tiered rates will increase to:

- **7.1 ¢/kWh for the first 1,000 kWh consumed each month (an increase of 0.3 ¢); and**
- **8.3 ¢/kWh above that (an increase of 0.4 ¢).**

In the winter months (November 1 to April 30), residential consumers can use up to 1,000 kWh per month at the lower price versus the 600 kWh seasonal threshold per month that applies during the summer months (May 1 to October 31). As a result of this change, residential customers consuming 800 kWh per month will experience an increase of approximately \$0.20 or 0.2 per cent on their current bill before taxes.

Start Your Career At the Top

Do you like to work with your hands?
Love to be outdoors?
Can you think on your feet?
Want to **earn while you learn** through an Apprenticeship Program?

Get more than a job. Become an Enersource Power Lineman or Cableman! Join a skilled team that uses the latest technology and takes YOUR career to a new high.

Visit enersource.com/careers to apply.



If you are billed using TOU rates, changes are as follows:

- **On-peak (from 7 a.m. to 11 a.m. and from 5 p.m. to 7 p.m. weekdays) = 10.8 ¢/kWh (an increase of 0.1 ¢)**
- **Mid-peak (from 11 a.m. to 5 p.m. weekdays) = 9.2 ¢/kWh (an increase of 0.3 ¢)**
- **Off-peak (from 7 p.m. to 7 a.m. weekdays, weekends and holidays) = 6.2 ¢ (an increase of 0.3 ¢)**

The price change for consumers on TOU pricing represents an increase of approximately \$2.11 on the "Electricity" line, or about 1.8% on the total bill for the typical residential consumer who uses 800 kWh per month. You can also find out more at: www.enersource.com/tou or call us at 905-273-7425.

*NOTE: If you purchase your electricity from an energy retailer, you will continue to pay your rates and global adjustment according to the terms and rates in your contract.

Time-of-Use Rates in Mississauga

The rollout for Time-of-Use (TOU) rates has begun.

In September, the first group of Enersource residential customers received an information package about the Ontario Government's mandated electricity TOU plan. The first customers to switch to TOU live in the south and east areas of Mississauga. Remaining customers will be transitioned to TOU over the next few months. TOU rates vary by hour, day and season to better reflect the way electricity prices work in the electricity market. Depending on our demand and the availability of supply, electricity market prices rise and fall over the day and tend to drop over night. That's why time-of-use rates vary—depending on the time of day, the day of week (weekday and weekend or holidays) and the season (summer or winter). With rates that vary, we all have an incentive to shift and/or reduce electricity consumption at times of peak demand. The chart below will help you understand when to shift your electricity usage to off-peak periods.

		monday - friday	weekends & holidays
summer (MAY 1 TO OCTOBER 31)	7am		
	11am		
	5pm		
	7pm		
winter (NOVEMBER 1 TO APRIL 30)	7am		
	11am		
	5pm		
	7pm		

On-peak, demand is high: \$\$\$ Mid-peak, demand is moderate: \$\$ Off-peak, demand is low: \$

If you want to learn more, please visit www.enersource.com/tou for details.



Top **Energy Savings Tips** For Business

Whatever the size and type of your business, there are a few simple things you can do to save energy and money. Here are some easy to implement recommendations:

1. **Understand your equipment** so you know what equipment uses the most energy, and what could be disconnected at certain times.
2. **If your equipment is over 5 to 10 years old**, it may be worthwhile to buy more efficient equipment. The energy you save could quickly make up for the cost of replacement. You could also qualify for up to \$1,000 in free energy upgrades through the **Electricity Retrofit Incentive Program**.
3. **Install efficient lights.** You could reduce energy use by 40% just by replacing T12 fluorescents and magnetic ballasts with T8 lamps and electronic ballasts. And replace old EXIT lights with newer, energy-efficient LED models.
4. **Use window blinds** to create shade and keep your workplace cooler.
5. Have a dress code that allows employees to **dress comfortably for warmer temperatures**.
6. **Install energy-efficient ceiling fans**, which can cool a room by up to 4°C.
7. **Install window film, solar screens or awnings** on south and west-facing windows that get the most sun.
8. **Maintain your heating, ventilation and air conditioning (HVAC) systems** — keeping them efficient can save up to 30% of fan energy and up to 10% of space conditioning energy.



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news, resources &
helpful conservation tips
business edition

Summer 2011



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in this issue:

- Small Business Lighting Retrofit Program Launch
- Top Energy Savings Tips For Businesses
- Electricity Supply in Ontario

... and more!

Enersource Launches Small Business Lighting Retrofit Program

Once again, Enersource is helping small businesses in Mississauga become more energy-efficient through the Small Business Lighting Retrofit Program.

Under this program offered by the Ontario Power Authority (OPA), qualifying small businesses can **get up to \$1,000 worth in energy-efficient lighting and equipment upgrades at no cost** to them. Qualifying businesses also get access to other standard incentives for retrofits above the \$1,000 limit, allowing them to save even more energy. Businesses with an electricity demand of less than 50 kW can participate in the program, such as clothing stores, restaurants, dry cleaners, medical offices, beauty salons, convenience stores, garages and other small retailers.

Enersource business customers have already achieved significant savings through various conservation and energy savings initiatives. In the last 2 years, more than 3,500 small business customers in Mississauga have achieved an estimated demand reduction of 3,769 kW and energy savings of 14,703 MWh. That is the equivalent of taking approximately 1,250 homes off the grid for a year. Nedco is our program service provider and is acting on behalf of Enersource and the OPA. Nedco is contacting small businesses across Mississauga to discuss their

interest in the Small Business Lighting program. Nedco will offer qualifying businesses a variety of retrofit options and then arrange for an approved, licensed, experienced electrical contractor to carry out the retrofit installations. Nedco also ensures that all scrap material is recycled.

To participate in the Small Business Lighting program or for more information, please call 905-366-1472 or visit <http://saveenergy.ca/Business>

Find Energy Savings With The Process And Systems Upgrade Program



In these challenging economic times, our business customers are always looking for ways to save money. Investing in energy efficiency can be a big boost to any business, but identifying ways to save isn't always simple. Enersource and the OPA are working together to create better opportunities for companies to save money.

The **Process & Systems** upgrade program is designed to help businesses find and hold onto major energy savings. It includes valuable financial incentives and technical expertise necessary to make informed decisions and choices as you upgrade your key systems and make improved energy management a part of how you do business.

Take control of your energy

One of the best ways to understand your energy needs is by having an on-site, full-time energy manager. This person can be the critical resource you need to help your business move forward. An energy manager helps businesses take complete control of their energy—by monitoring performance, leading awareness programs, finding small-but-impactful ways to save, or by spearheading large upgrade projects.

Most companies face challenges in pursuing this option due to the costs of adding an additional person to their payroll. To help the process, Enersource, in partnership with the Ontario Power Authority (OPA), has launched a new program aimed at easing this burden on large energy consumers.

Our Energy Conservation Team has already hosted a lunch with customers and is actively helping applicants navigate the process and complete the necessary paperwork for approval by the OPA. For more information on the various Process and Systems Upgrade programs, please call us at 905-283-3999 or <https://saveenergy.ca/Business/Program-Overviews>

Electricity Supply in Ontario: 18-Month Outlook

Summer is here and electricity demand in Ontario is expected to increase. In May, the IESO released its quarterly 18-Month Outlook and is forecasting a reliable supply of electricity to meet power demand for the next 18 months. The IESO is forecasting an increase in total Ontario electricity consumption due to economic and population growth by 0.5 per cent in 2011 and 1.9 per cent in 2012.

More than 2,500 megawatts (MW) of new and refurbished generation is expected to come into service, over the next 18 months. Meanwhile, surplus baseload generation (SBG) conditions are expected to continue this summer and fall. SBG is a system condition where the amount of baseload generation is greater than the demand for electricity. Baseload generation comes from resources that cannot easily lower their output, such as nuclear, hydroelectric and wind generators. Ontario will continue to experience

periods of SBG as new generation is brought online to replace coal and prepare for future nuclear refurbishments. This overlap is essential so that new generation can be built and tested before older plants can be safely shut down. An updated 18-Month Outlook is published every three months to assess the adequacy and reliability of the generation supply and transmission system in Ontario. You can read the complete document at www.ieso.ca/18-month.outlook



An Interactive Guide to Understanding Your Electricity Use

Although not yet in effect in Mississauga, with Time-of-Use (TOU) electricity prices, when you use electricity is just as important as how much electricity you use. It is important for businesses to start making decisions now in order to take full advantage of TOU rates over the next year.

The type of equipment you use, your hours of operation and even your business routines all affect your electricity costs.

The IESO has designed a simple guide for small business to show how Time-of-Use prices work and how to make them work for you. To access this interactive guide, please go to www.ieso.ca/smallbiz

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory # 5

**Energy Probe Research Foundation
(Energy Probe)**

4. Operating Costs

4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Ref: Exhibit 4, Tab 4, Schedule 1, Appendix 2-L

- a) Please provide a table that shows for each year in Appendix 2-L the percentage allocation for each line item.
- b) For each line item, please provide the basis for the allocation (i.e. revenues, head count, etc.)
- c) Please detail the change in the allocation methodology (if applicable) that results in the change in the percentage allocation for each line item in part (a) above.

Response:

- a) Please refer to Exhibit 4 Tab 4 Schedule 1 Appendix 2-L pages 1-8 for the percentage allocation for each line item. The percentage allocation is indicated in the tables.
- b) The basis for the allocation can be found in Exhibit 4 Tab 4 Schedule 1 Appendix 2, page 17. Human resources allocations are based on headcount and all other line items are based on revenues.
- c) Please refer to response to Board Staff Issue 4.4 IR # 42.

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory # 6

**Energy Probe Research Foundation
(Energy Probe)**

4. Operating Costs

4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Ref: Exhibit 4, Tab 4, Schedule 1, Appendices 1-6

- a) Please confirm that the Agreements in each of Appendices 1 through 6 can be terminated for 2013 by giving the appropriate notice by November 1, 2012.
- b) Please provide a summary of all of the changes to the allocation of costs between what was used at the time of the last cost of service proceeding and that proposed for 2013 shown in Schedule "B" to the Agreements in each of Appendix 1 through 6. For each change, please show the allocation methodology used as part of the last cost of service application, the proposed methodology for 2013 and the rationale for the change.

Response:

- (a) Pursuant to the terms in the Services Agreements, the Service Agreements will automatically be extended for successive additional one (1) year periods unless either party terminates the Service Agreement by no less than sixty (60) days' written notice to the other. Therefore, the Service Agreements can be terminated if written notice is given by November 1, 2012; however, Enersource's current structure will remain unchanged and the Service Agreements will automatically be extended for each successive year.
- (b) Please refer to response to Board Staff Issue 4.4 Interrogatory #42 which discusses changes to the allocation methodology to the Service Agreements.

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #53

School Energy Coalition (SEC)

4. Operating Costs

Issue 4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Reference: Ex. 1/1/9, App. 2

Please advise the operational, financial, corporate, or other reasons for the separate existence of Enersource Services Inc., Enersource Hydro Mississauga Services Inc., and Enersource Technologies Inc., and the ownership structure within which they operate.

Response:

Enersource Corporation set up Enersource Services Inc. as a parent to Enersource Hydro Mississauga Services Inc. and Enersource Technologies Inc. to perform non-regulated activities. Currently, only Enersource Hydro Mississauga Services Inc. carries on an active business. The intention is to use Enersource Technologies Inc. for future business ventures.

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #54

School Energy Coalition (SEC)

4. Operating Costs

Issue 4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Reference: Ex. 1/3/6, App. 1, p. 12

Please advise whether Enersource Technologies Inc. is “inactive”, as set forth in the prospectus, or is active, as implied by Ex. 4/4/1, App. 1.

Response:

Enersource Technologies currently has no active business activity other than one contract for telephone services.

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #55

School Energy Coalition (SEC)

4. Operating Costs

Issue 4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Reference: Ex. 4/1/8, p. 1

Please provide all studies, reports, or similar documents dealing with the change in the method of allocating costs in 2009.

Response:

Please see the response to Board Staff Issue 4.4 IR 42.

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #56

School Energy Coalition (SEC)

4. Operating Costs

Issue 4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Reference: Ex. 4/1/8, p. 3

Please describe the role of the Corporate Relations staff, and how that relates to the regulated operations.

Response:

Please refer to the response to VECC Issue 4.1 IR 40(b) for details.

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #57

School Energy Coalition (SEC)

4. Operating Costs

Issue 4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Reference: Ex. 4/4/1, App. 1-6

Please confirm that these are the most current SLAs of the Applicant.

Response:

Confirmed.

**Enersource Hydro Mississauga Inc.
Response to Interrogatories by Issue**

Interrogatory #60

School Energy Coalition (SEC)

4. Operating Costs

Issue 4.4 Is the proposed allocation of shared services and corporate costs appropriate?

Reference: Ex. 4/4/1, App. 3

Please advise how the services provided by the Applicant under this SLA relate to the services received by the Applicant from the same company under Appendix 4.

Response:

The agreement in Appendix 3 is in place to ensure that if Enersource Hydro Mississauga Services Inc. purchases or uses something from Enersource Hydro, each party would know how to pay and settle the costs. The agreement in Appendix 4 is in place to ensure that if Enersource Hydro purchases or uses something from Enersource Hydro Mississauga Services Inc., each party would know how to pay and settle such costs.