



Rene W. Gatien, P. Eng, MBA
President & CEO

WATERLOO NORTH HYDRO INC.

PO Box 640
300 Northfield Drive East
Waterloo ON N2J 4A3
Telephone 519-888-5544
Fax 519-886-8592
E-mail rgatien@wnhydro.com
www.wnhydro.com

December 10, 2010

Public Interest Advocacy Centre
34 Kings St. E., Suite 1102
Toronto, Ontario
M5C 2X8

VIA E-MAIL AND RESS

Attention: Mr. Michael Buonaguro

Dear Mr. Buonaguro:

Re: May 1, 2011 Cost of Service Interrogatory Responses/ EB-2010-0144

Pursuant to the Board's Procedural Order of November 5, 2010, Waterloo North Hydro Inc. (WNH) is enclosing its Interrogatory Responses to the Vulnerable Energy Consumers Coalition's Interrogatories of November 28, 2010.

WNH has filed an electronic copy of this document via the Board's web portal RESS and couriered to the Board Office two copies of this document.

If there are any questions, please contact Albert Singh at 519-888-5542, asingh@wnhydro.com or myself, Rene Gatien at 519-888-5544, rgatien@wnhydro.com.

Yours truly,

Original Signed By

Rene W. Gatien, P.Eng, MBA
President & C.E.O.



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December 10, 2010

Econalysis Consulting Services Inc.
34 King Street East, Suite 1102
Toronto, Ontario
M5C 2X8

VIA E-MAIL AND RESS

Attention: Mr. Bill Harper

Dear Mr. Harper:

Re: May 1, 2011 Cost of Service Interrogatory Responses/ EB-2010-0144

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VECC's Interrogatories

LOAD FORECAST/OTHER REVENUES

QUESTION #1

Reference: *Exhibit 3, page 1*

- a) Are any of Waterloo North's customer registered market participants with the IESO?**

Waterloo North Hydro Inc. (WNH) does not have any customers registered as market participants with the IESO.

- b) If yes, what are the forecast kWh sales to these customers for 2011?**

Not applicable.

QUESTION #2

Reference: *Exhibit 3, page 4, line 18*

- a) Please explain more fully the statement: "WNH expects a decrease in transformer allowance".**

In WNH's Cost Allocation Model, WNH has a Large Use rate class in which all customers own their transformers. No transformer costs were allocated to this rate class. In this application WNH proposes that this rate class not receive the transformer allowance, therefore the transformer allowance paid out would decrease.

QUESTION #3

Reference: *Exhibit 3, page 8*

- a) Please confirm whether the number of customers/connections is an annual average or a year-end value.**

The number of customers/connections are a year-end value.

VECC's Interrogatories

- b) Please provide a schedule that sets out the actual number of customers/connections by class for the most recent month available and indicate the reporting month.***

Please refer to Energy Probe IR # 18 (a).

- c) In the case of Street Lights, does the reported number represent the number of devices (i.e., individual lamps) or the number of system connections?***

The Street Light numbers shown in Energy Probe IR # 18 (a) represent the number of devices.

QUESTION #4

Reference: Exhibit 3, pages 11 and 14

- a) Did Waterloo North test models using more local economic indicators such as employment levels? If not, why not? If yes, what were the results?***

WNH's regression model has an R^2 and an adjusted R^2 of approximately 96%. WNH is of the view that as the Ontario Real GDP also has a good t-stat and the overall model has a high level of correlations with the actual data, the provincial economic indicator is representative of the local conditions.

QUESTION #5

Reference: Exhibit 3, page 16

- a) Please provide a schedule that for each year from 2005-2009 calculates the following:***
- ***The differences between the actual HDD and CDD values for the year and the 14-year average values***
 - ***Calculates the impact of actual weather vs "normal weather" for each year based on these differences and the coefficients for the corresponding values in the estimated regression equation***

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- *Adjusts the Actual Purchases for each year by these results to determine an estimate of "Weather Normal Purchases" for each year.*

WNH has provided the information in the table below.

Table IR # 5 - Change in 2005-2009

Year	Predicted Purchases - Weather Normalized using 14 Year Average HDD and CDD	Predicted Purchases	Difference 2005-2009 vs. Original	Actual Net Purchases	Adjust Actual Net Purchases by Difference
2005	1,349,472,269	1,370,886,094	(21,413,825)	1,358,556,813	1,337,142,988
2006	1,377,570,490	1,370,624,789	6,945,701	1,372,533,120	1,379,478,821
2007	1,400,496,652	1,404,917,327	(4,420,676)	1,423,569,039	1,419,148,363
2008	1,421,233,290	1,418,931,095	2,302,194	1,421,429,683	1,423,731,877
2009	1,430,697,640	1,417,239,702	13,457,937	1,411,764,680	1,425,222,618

QUESTION #6

Reference: Exhibit 3, page 17

- a) What was the average loss factor over the period used to estimate the load forecast model?**

WNH used the average loss factor of 1.0404 to estimate the load in its forecast. This factor is consistent with the proposed loss factor in Exhibit 8.

- b) If data is not available to determine the average over full period 1996-2009, please indicate what the average is using all years for which the required data is available.**

WNH does not have data available to determine the average over the full period 1996-2009, WNH has an average from 2003 to 2009 of 1.0391.

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QUESTION #7

**Reference: Exhibit 3, page 18
Exhibit 2, Table 2-2**

- a) Please provide a schedule that breaks down the annual forecast capital additions for Services over the period 2007-2011 by customer class.**

WNH has provided the number of services over the period 2007-2011 below. WNH notes that it does not have these statistics available by rate class. WNH is not able to provide 2010 and 2011 budgeted number of services. Budgets for services are determined upon reviewing prior years' expenditures and adjusting based on forecasted local economic conditions. The cost of installing a service is not a uniform cost therefore we are not able to provide the forecast number of services.

Table IR # 7 (a) - Number of Services

	Residential Individually metered	Commercial Individually & bulk metered	Row Housing Individually metered	Apartments Individually & bulk metered	TOTAL
2007	483	97	73	203	856
2008	527	68	140	216	951
2009	390	86	54	139	669
2010 ¹	393	102	102	189	786

¹ 2010 includes up to November 30th

- b) Please discuss any inconsistencies between the annual change in customer count and the annual level of service additions.**

Service additions occur at the request and timing of the developers and builders. Depending on construction and sales activities, this may occur months ahead of customers occupying the dwellings and signing up for electricity. A customer is not considered a new customer until they occupy the dwellings and sign up for electricity. The separation in time explains why the two numbers may differ in a given calendar year.

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QUESTION #8

Reference: *Exhibit 3, pages 20-22*
OEB Decision and Order, EB-2010-0215/0216
EB-2010-0131 (Ottawa Hydro), Exhibit JT1.1

- a) Please confirm that the final CDM target set for Waterloo North is 66.49 GWh out of total provincial target of 6,000 GWh.**

WNH confirms that its final CDM target is 66.49 GWh.

- b) Please confirm that (per page 3 of the Board's Decision) this target is accumulated energy savings over the four year period 2011-2014.**

WNH confirms that this target is accumulated energy savings over the four year period 2011-2014.

- c) Please confirm that (per Exhibit Jt1.1, EB-2010-0131) the OPA's working papers associated with their Advice to the OEB re CDM Targets assumed LDC savings of 577 GWh in 2011.**

WNH is unable to confirm this information as it was not made available to WNH.

- d) Why is it necessary (per page 21) to adjust the 2010 and 2011 values for savings achieved in 2006-2009 when these savings are already reflected in the actual purchase values used to estimate the forecast equation?**

Please refer to Energy Probe IR # 19 (a).

- e) Please provide a full explanation and the supporting calculations as to how the forecast annual usage by customer class for 2010 and 2011 (Table 3-14) was established.**

WNH notes in its response to Energy Probe IR # 19 (b) "WNH incorrectly identified that the non-normalized forecast annual kWh usage per customer/connection reflected the CDM Adjustment."

The Non-Normalized Bridge and Test Year values were derived from applying a growth rate based on the results of the geometric mean analysis for historical usage by rate class from 2004 to 2009. In 2010, each rate class had the 2009 average usage per customer

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multiplied by the historical geometric mean growth rate to derive 2010 forecast non-normalized average kWh per customer. Similarly in 2011, the 2010 forecasted non-normalized average kWh per customer was multiplied by the historical geometric mean growth rate to obtain the 2011 forecasted non-normalized average kWh per customer.

WNH has provided a table below to reflect its calculations.

Table IR# 8 (e) - Derivation of Table 3-14

	Residential	GS<50	GS>50	Large User	Streetlights	USL
kWh Usage Per Customer						
1999						
2000						
2001						
2002						
2003	9,566	35,912	912,299	65,433,586	588	6,605
2004	9,343	36,150	969,014	66,067,057	556	6,510
2005	9,642	36,755	1,014,076	70,553,960	592	6,555
2006	9,112	36,826	1,058,217	73,668,918	583	5,464
2007	9,259	37,204	1,083,787	77,115,461	577	5,203
2008	9,094	35,549	1,044,601	76,733,608	591	3,328
2009	8,802	33,923	1,054,653	76,507,951	584	3,645
2010	8,681	33,603	1,080,451	78,527,942	583	3,301
2011	8,562	33,285	1,106,880	80,601,265	583	2,990
Ratio Current Year / Prior Year						
1999						
2000						
2001						
2002						
2003						
2004	0.9767	1.0066	1.0622	1.0097	0.9465	0.9856
2005	1.0319	1.0167	1.0465	1.0679	1.0636	1.0069
2006	0.9451	1.0019	1.0435	1.0442	0.9858	0.8336
2007	1.0161	1.0103	1.0242	1.0468	0.9899	0.9522
2008	0.9822	0.9555	0.9638	0.9950	1.0231	0.6398
2009	0.9679	0.9543	1.0096	0.9971	0.9885	1.0951
Used in Calculating 2010 & 2011 Usage	0.9862	0.9906	1.0245	1.0264	0.9989	0.9057
Geomean	0.9862	0.9906	1.0245	1.0264	0.9989	0.9057

The geomean ratio is the growth rate in the above table.

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QUESTION #9

Reference: Exhibit 3, pages 22-23

- a) ***Please re-do Table 3-17 assuming 100% weather sensitivity for Residential and GS<50. Note: The purpose of this question is to gain an understanding of the sensitivity of the results to Waterloo North's 76.2% assumed sensitivity factor.***

WNH has provided a revised Table 3-17 assuming 100% weather sensitivity for Residential and GS<50 below. WNH notes that the revision is using the data from the original filing.

**Table IR# 9 (a) – Revised Table 3-17
Alignment of Non-Normal to Weather Normal Forecast
Assuming 100% Weather Sensitivity for Residential and GS<50**

Non-Normalized Weather Billed Energy Forecast (GWh)							
Year	Residential	GS<50	GS>50	Large User	St Lt	USL	Total
2010 Not Normalized Bridge	395.1	180.0	718.6	78.5	7.7	1.8	1,381.7
2011 Not Normalized Test	393.1	180.1	740.7	80.6	7.8	1.6	1,404.0

Adjustment for Weather (GWh)							
Year	Residential	GS<50	GS>50	Large User	St Lt	USL	Total
2010 Normalized Bridge	- 0.7	- 0.3	- 0.6	- 0.1	-	-	1.7
2011 Normalized Test	- 11.9	- 5.5	- 11.2	- 1.7	-	-	30.3

Weather Normalized Billed Energy Forecast (GWh)							
Year	Residential	GS<50	GS>50	Large User	St Lt	USL	Total
2010 Normalized Bridge	394.4	179.7	718.0	78.4	7.7	1.8	1,379.9
2011 Normalized Test	381.2	174.7	729.5	78.9	7.8	1.6	1,373.7

QUESTION #10

Reference: Exhibit 3, pages 24-25

- a) ***Please explain more fully the nature of the trend analysis used.***

Please refer to Energy Probe IR # 20.

- b) ***Please confirm that the last row in Table 3-19 is 2011.***

WNH confirms that the last row in Table 3-19 is 2011.

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QUESTION #11

Reference: Exhibit 3, page 28, Table 3-23

- a) Please confirm that the variable rates used do not include any allowance for LV costs. If this is not the case, please re-do with the Table with LV excluded.**

WNH confirms that the variable rates used do not include any allowance for LV costs.

- b) Please provide a revised version of Table 3-23 with a column that shows the transformer ownership allowance provided to each class the resulting net revenue for each class.**

WNH has provided a revised version of Table 3-23 with a column that shows the transformer ownership allowance provided to each class and the resulting net revenue for each rate class.

Table IR# 11 (b) - Revised Table 3-23 including Transformer Allowance

Class	Fixed Rate	Variable Rate	Number of Customers (Avg)	kWh / kW Sales	Fixed Charge	Variable Charge	Throughput Revenue	Transformer Allowance	Dist. Rev. Excluding Transformer
Residential	\$ 14.56	\$ 0.0131	45,713	382,563,062	\$ 7,986,975	\$ 5,011,576	\$ 12,998,551	478	12,998,073
GS<50	\$ 30.63	\$ 0.0104	5,384	175,321,434	\$ 1,978,961	\$ 1,823,343	\$ 3,802,303	74,612	3,727,692
GS>50	\$ 187.01	\$ 3.5420	667	1,566,291	\$ 1,496,027	\$ 5,547,804	\$ 7,043,831	597,538	6,446,293
Large User	\$ 6,686.47	\$ 2.6959	1	148,593	\$ 80,238	\$ 400,591	\$ 480,829	0	480,829
Street Lighting	\$ 0.33	\$ 6.7448	13,259	21,547	\$ 52,506	\$ 145,327	\$ 197,834	0	197,834
Unmetered Scattered Load	\$ 15.31	\$ 0.0103	547	1,648,666	\$ 100,499	\$ 16,981	\$ 117,480	0	117,480
Embedded Distributor	\$ -	\$ -	1	71,600					0
Total 2011 Throughput Revenue					\$ 11,695,206	\$ 12,945,622	\$ 24,640,829	672,628	23,968,200

- c) Please confirm that the result for part (b) equals \$23,968,200, the Distribution Revenue at current rates reported in Exhibit 6, page 8. If not, please explain why.**

WNH confirms that the result for part (b) equals \$23,968,200, the Distribution Revenue at current rates reported in Exhibit 6, page 8.

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QUESTION #12

Reference: Exhibit 3, page 29

a) What is the purpose of the meter read performed each month?

WNH performs a meter read each month as WNH bills the embedded distributor for Wholesale Market Service Charges, Rural Rate Protection Charge, Global Adjustment and Power. WNH also bills the SSS Administration Charge.

b) Who owns the meter being read by Waterloo North?

WNH owns the meter. It was transferred from Hydro One Networks Inc. at no cost.

c) Is the bill issued cover only the pole rental costs? If not, please explain.

Please refer to IR#12 (a).

QUESTION #13

Reference: Exhibit 3, pages 32-33

a) Where is the \$135,000 in SSS Administrative Charge revenue captured in Table 3-26? If not included, how are these revenue captured in the revenue requirement determination in Exhibit 6?

The SSS Administration Charge Revenue is not captured in Table 3-26 as it is recorded in a sub-account of USoA 4080, Distribution Revenue. Table 3-26A has included the SSS Administration Charge Revenue as a component of the Revenue Offset, thus, Revenue Requirement has been reduced by this amount.

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- b) Please provide a schedule that breaks out the total revenue in Account #4375 and the total costs in Account #4380 associated with the delivery of OPA programs in 2009, 2010 and 2011.***

Please refer to Table 3-33 in WNH's August 27, 2010 Submission. The OPA Revenue in Account # 4375 and OPA Costs in Account # 4380 are offsetting amounts. Any differences between the OPA Revenue and Costs are settled with the OPA and the differences are recorded as a Receivable or Payable to the OPA. Final Settlement with the OPA occurs annually.

COST ALLOCATION

QUESTION #14

***Reference: Cost Allocation Model – Sheet I6
Exhibit 3, page 28***

- a) Please explain the discrepancies between in the number of customers reported in Sheet I6 (Row 38) for Residential, GS<50 and GS>50.***

The number of customers shown in Exhibit 3, page 28, is the average-year number of customers, used for the calculation of revenue. The customer numbers shown in Sheet I6 of the Cost Allocation Model are year end customer numbers.

- b) Please explain why the number of USL connections in I6 exceeds the number of USL customers in Exhibit 3.***

The number of USL customers shown in Exhibit 3, is the average-year number of customers, used for the calculation of revenue. The USL customer numbers shown in Sheet I6 of the Cost Allocation Model are year end USL customer numbers.

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RATE DESIGN

QUESTION #15

Reference: Exhibit 8, page 3

- a) The first line on the page states that Waterloo North is not proposing to change the fixed/variable splits for 2011. However, Tables 8-4 and 8-5 show that the splits have changed for all customer classes. Please reconcile.**

WNH incorrectly stated that it was not proposing to change its fixed/variable splits for 2011. As a result of proposing to maintain the current fixed charges, the fixed/variable has changed.

- b) Please confirm that Waterloo North's proposal is to not change any of the fixed charges for 2011.**

WNH confirms that it has not proposed to change any of the fixed charges for 2011.

QUESTION #16

Reference: Exhibit 8, page 8

- a) Please provide a schedule that sets out the actual kW purchases for 2009 used for billing Network, Line Connection and Transformation Connection service.**

Please refer to Board Staff IR # 8 (b).

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UTILITY ORGANIZATIONAL STRUCTURE

QUESTION #17

Reference: Exhibit 1, page 39, Chart 1

- a) Please indicate whether the Board of Directors of the holding company are responsible for any entities other than the distribution utility. If so, please identify these other responsibilities and explain how the costs of the holding company's Board of Directors are allocated among the entities.**

The Board of Directors of the Holding Company are not responsible for any entities other than the distribution utility.

- b) Does the utility have its own Board of Directors, separate from the holding company's Board of Directors? If so, please provide details including costs.**

WNH has its own Board of Directors, separate from the Holding Company's Board of Directors. One-third of WNH's Board of Directors is independent from the Holding Company's Board of Directors. The cost of WNH's Board of Directors that has been included in the 2011 Test Year is \$80,234. WNH has not included any costs in this application which relate to the Holding Company's Board of Directors.

CAPITAL SPENDING AND RATE BASE

QUESTION #18

Reference: Exhibit 2, page 2, line 10

- a) Should this read instead "Capital forecasts are based on peak load in kW."**

WNH confirms that it should read "Capital forecasts are based on peak load in kW."

VECC's Interrogatories

QUESTION #19

Reference: *Exhibit 2, page 4, Table 2-1 and Exhibit 2, page 10*

- a) For each year 2004-2010 inclusive, please provide a copy of the capital budget as approved by the Board of Directors and indicate the date on which each of these annual budgets was approved.***

WNH has provided a copy of the 2004-2010 capital budgets as approved by WNH's Board of Directors below. The date of approval is indicated in the top left hand cell of each year's schedule.

WNH notes that Street Lighting was put as a placeholder only for description of activities; WNH does not own the street light assets and these are not included in rate base.

WNH also notes that meters were approved by the Board of Directors include smart meters, which have been removed from this application. The New Service Centre spending in each year is also included; however, the new service centre was recorded as WIP until 2011.

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Table IR # 19 (a) - 2004 Approved Capital Budget

Approved December 11, 2003	2004 Budget Gross	2004 Budget Contributed Capital	2004 Budget Net
Land and Land Rights	\$ 265,892	\$ -	\$ 265,892
Buildings: Fixtures and Improvements	247,506	-	\$ 247,506
Substation Equipment	53,722	-	\$ 53,722
Transformer Station Equipment	521,523		\$ 521,523
Distribution System - Overhead	4,201,705	1,363,968	\$ 2,837,737
Distribution System - Underground	2,609,707	1,692,000	\$ 917,707
Transformers	1,983,965	-	\$ 1,983,965
Services	1,136,268	629,457	\$ 506,811
Meters	793,452	-	\$ 793,452
Office Furniture and Equipment	10,433	-	\$ 10,433
Computer Equipment - Hardware	164,528	-	\$ 164,528
Computer Equipment - Software	705,783	-	\$ 705,783
GIS System	234,000	-	\$ 234,000
Transportation Equipment	220,605	-	\$ 220,605
Tools, Shop and Garage Equipment	41,686	-	\$ 41,686
Measurement and Testing Equipment	-	-	\$ -
Communications Equipment	4,000	-	\$ 4,000
SCADA Equipment	125,950	-	\$ 125,950
Street Lighting	29,084	29,084	\$ -
TOTAL	\$ 13,349,809	\$ 3,714,509	\$ 9,635,300

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Table IR # 19 (a) - 2005 Approved Capital Budget

Approved December 16, 2004	2005 Budget Gross	2005 Budget Contributed Capital	2005 Budget Net
Land and Land Rights	\$ 390,039		\$ 390,039
Buildings: Fixtures and Improvements	215,645		215,645
Transformer Station Equipment	1,004,651		1,004,651
Distribution System - Overhead	3,825,194	442,033	3,383,161
Distribution System - Underground	2,141,900	1,865,393	276,507
Transformers	2,122,347	46,550	2,075,797
Services	1,139,951	582,936	557,015
Meters	716,037	300,000	416,037
Office Furniture and Equipment	47,700		47,700
Computer Equipment - Hardware	546,273	20,196	526,077
Computer Equipment - Software	603,033		603,033
Transportation Equipment	381,972		381,972
Tools, Shop and Garage Equipment	85,439		85,439
Measurement and Testing Equipment	41,600		41,600
SCADA Equipment	151,303		151,303
Street Lighting	882,210	882,210	-
TOTAL	\$ 14,295,294	\$ 4,139,318	\$ 10,155,976

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Table IR # 19 (a) - 2006 Approved Capital Budget

Approved December 15, 2005	2006 Budget Gross	2006 Budget Contributed Capital	2006 Budget Net
Land and Land Rights	\$ 440,943	-	\$ 440,943
Buildings: Fixtures and Improvements	306,203	-	306,203
Substation Equipment	47,023	-	47,023
Transformer Station Equipment	1,520,902	-	1,520,902
Distribution System - Overhead	5,907,456	\$ 193,924	5,713,532
Distribution System - Underground	3,847,893	1,531,933	2,315,960
Services	707,074	150,000	557,074
Meters	1,023,782	-	1,023,782
Office Furniture and Equipment	85,965	-	85,965
Computer Equipment - Hardware	121,392	-	121,392
Computer Equipment - Software	189,216	-	189,216
GIS System	213,028	-	213,028
Transportation Equipment	611,755	-	611,755
Communications Equipment	5,400	-	5,400
SCADA Equipment	326,099	-	326,099
Street Lighting	464,000	464,000	-
TOTAL	\$ 15,818,131	\$ 2,339,857	\$ 13,478,274

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Table IR # 19 (a) - 2007 Approved Capital Budget

Approved November 26, 2006	2007 Budget Gross	2007 Budget Contributed Capital	2007 Budget Net
Land and Land Rights	\$ 457,486	-	\$ 457,486
Buildings: Fixtures and Improvements	933,100	-	933,100
Transformer Station Equipment	1,160,302	-	1,160,302
Distribution System - Overhead	6,282,864	\$ 196,571	6,086,293
Distribution System - Underground	3,139,941	1,040,178	2,099,763
Services	1,228,337	601,389	626,948
Meters	3,238,297	-	3,238,297
Office Furniture and Equipment	69,900	-	69,900
Computer Equipment - Hardware	160,618	-	160,618
Computer Equipment - Software	289,185	-	289,185
GIS System	264,329	-	264,329
Transportation Equipment	464,120	-	464,120
Measurement and Testing Equipment	16,557	-	16,557
Communications Equipment	48,026	-	48,026
Street Lighting	525,471	525,471	-
TOTAL	\$ 18,278,533	\$ 2,363,609	\$ 15,914,924

VECC's Interrogatories

Table IR # 19 (a) - 2008 Approved Capital Budget

Approved November 29, 2007	2008 Budget Gross	2008 Budget Contributed Capital	2008 Budget Net
Land and Land Rights	\$ 371,327		\$ 371,327
Buildings: Fixtures and Improvements	661,652		661,652
Transformer Station Equipment	417,402		417,402
Distribution System - Overhead	6,581,028	\$ 418,522	6,162,506
Distribution System - Underground	3,241,546	932,088	2,309,458
Services	1,276,404	532,467	743,937
Meters	5,026,193		5,026,193
Office Furniture and Equipment	18,876		18,876
Computer Equipment - Hardware	230,040		230,040
Computer Equipment - Software	383,432		383,432
GIS System	143,002		143,002
Transportation Equipment	667,552		667,552
SCADA Equipment	704,369		704,369
Street Lighting	220,731	220,731	-
TOTAL	\$ 19,943,554	\$ 2,103,808	\$ 17,839,746

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Table IR # 19 (a) - 2009 Approved Capital Budget

Approved November 20, 2008	2009 Budget Gross	2009 Budget Contributed Capital	2009 Budget Net
Land and Land Rights	\$ 16,207		\$ 16,207
Buildings: Fixtures and Improvements	2,579,992		2,579,992
Transformer Station Equipment	3,240,131		3,240,131
Distribution System - Overhead	9,003,005	\$ 196,669	8,806,336
Distribution System - Underground	3,301,724	1,104,028	2,197,696
Services	1,505,100	637,465	867,635
Meters	7,026,326		7,026,326
Office Furniture and Equipment	23,000		23,000
Computer Equipment - Hardware	215,260		215,260
Computer Equipment - Software	613,864		613,864
GIS System	154,250		154,250
Transportation Equipment	599,700		599,700
Tools, Shop and Garage Equipment	7,500		7,500
Communications Equipment	140,000		140,000
SCADA Equipment	145,367		145,367
Street Lighting	531,028	531,028	-
TOTAL	\$ 29,102,454	\$ 2,469,190	\$ 26,633,264

VECC's Interrogatories

Table IR # 19 (a) - 2010 Approved Capital Budget

Approved November 19, 2009	2010 Budget Gross	2010 Budget Contributed Capital	2010 Budget Net
Land and Land Rights	\$ 15,805		\$ 15,805
Buildings: New Service Centre	9,800,000		9,800,000
Buildings: Fixtures and Improvements	1,443,225		1,443,225
Transformer Station Equipment	4,064,411		4,064,411
Distribution System - Overhead	8,563,674	\$ 175,000	8,388,674
Distribution System - Underground	4,481,226	1,085,009	3,396,217
Services	1,850,830	539,565	1,311,265
Meters	3,791,140		3,791,140
Computer Equipment - Hardware	137,339		137,339
Computer Equipment - Software	558,635		558,635
GIS System	156,118		156,118
Transportation Equipment	593,633		593,633
Tools, Shop and Garage Equipment	203,770		203,770
Measurement and Testing Equipment	21,100		21,100
Communications Equipment	-		-
SCADA Equipment	351,882		351,882
Street Lighting	1,157,540	1,157,540	-
TOTAL	\$ 37,190,328	\$ 2,957,114	\$ 34,233,214

VECC's Interrogatories

- b) Has the Board of Directors approved a capital budget for 2011 or 2012 yet? If so, please provide a copy of the capital budget as approved by the Board of Directors and indicate the date on which the budget(s) was approved. If not, please indicate when the 2011 and/or 2012 capital budgets are expected to be approved by the Board of Directors.***

WNH's Board of Directors has not approved a capital budget for 2011 or 2012. The Board of Directors will be presented with the 2011 capital budget on December 16, 2010. At WNH's presentation of the 2010 capital budget, the Board of Directors also reviewed the five year capital plan which included 2011 (and 2012) that was the framework of the 2011 application.

QUESTION #20

Reference: Exhibit 2, page 9

- a) Please indicate the amounts related to the 2009 purchase of 35 acres of land that WNH proposes to include in rate base and the year(s) in which the amounts will be closed to rate base.***

The land purchase is reflected in the application being closed to rate base in 2011. The cost of the 35 acres of land closed to rate base is \$2,038,000.

QUESTION #21

Reference: Exhibit 2, page 245

- a) Please provide full details with respect to the 2008 spending of \$240,656 on land.***

WNH purchased 11 acres of land for its next transformer station that is scheduled to be constructed in the east side of WNH's service territory. The construction of the TS is scheduled to commence in 2015, as detailed in WNH's five year capital forecast, Exhibit 2, pages 120-121.

VECC's Interrogatories

OPERATING COSTS

QUESTION #22

Reference: Exhibit 4, page 8

- a) For each year 2004-2010 inclusive, please provide a copy of the operating budget as approved by the Board of Directors and indicate the date on which each of these annual budgets was approved.***

WNH has provided a copy of the 2004-2010 operating budgets as approved by WNH's Board of Directors below. The date of approval is indicated in the top left hand cell of each year's schedule.

WNH notes that the budgets approved by the Board of Directors are inclusive of smart meter and rebasing operating costs forecasted to be spent. WNH has removed smart meter operating costs and rebasing costs are treated as one-time costs in this application.

VECC's Interrogatories

Table IR # 22 (a) - 2004 Approved Operating Budget

Approved December 11, 2003	2004 Budget (\$000,s)
Revenue	
<i>Sales of Electricity</i>	\$ 91,187
<i>Distribution Revenue</i>	21,612
<i>Other Revenue</i>	<u>\$ 1,787</u>
Total Revenues	<u>\$ 114,586</u>
Cost of Power	<u>91,187</u>
Gross Margin	<u>\$ 23,399</u>
Controllable Costs	
<i>Distribution</i>	4,836
<i>Billing & Collection</i>	2,184
<i>Community Relations</i>	198
<i>General Administration</i>	<u>2,389</u>
Total Controllable Costs	<u>9,607</u>
Earnings before Int.Taxes & Dep'n	13,792
Depreciation	<u>5,584</u>
Earnings before Interest & Taxes	8,208
Interest Payments - Shareholders	1,997
Interest Payments - Other	-
Interest for tax deductibility	<u>2,374</u>
Earnings before Taxes	3,837
Income Taxes	1,482
Net Earnings	\$ 2,355

VECC's Interrogatories

Table IR # 22 (a) - 2005 Approved Operating Budget

Approved December 16, 2004	2005 Budget (\$000,s)
Revenue	
<i>Sales of Electricity</i>	\$ 90,863
<i>Distribution Revenue</i>	21,808
<i>Other Revenue</i>	1,875
Total Revenues	\$ 114,545
Cost of Power	90,863
Gross Margin	\$ 23,683
Controllable Costs	
<i>Distribution</i>	4,630
<i>Billing & Collection</i>	2,145
<i>Community Relations</i>	280
<i>General Administration</i>	2,473
<i>Provincial Capital Taxes</i>	305
Total Controllable Costs	9,832
Earnings before Int.Taxes & Dep'n	13,850
Depreciation	5,750
Earnings before Interest & Taxes	8,100
Interest Payments - Shareholders	1,527
Interest Payments - Other	514
Interest on Jr. Debt	1,361
Earnings before Taxes	4,698
Income Taxes	1,720
Net Earnings	\$ 2,978

VECC's Interrogatories

Table IR # 22 (a) - 2006 Approved Operating Budget

Approved December 15, 2005	2006 Budget (\$000,s)
Revenue	
<i>Sales of Electricity</i>	\$ 120,808
<i>Distribution Revenue</i>	23,589
<i>Other Revenue</i>	2,051
Total Revenues	\$ 146,448
Cost of Power	120,808
Gross Margin	\$ 25,640
Controllable Costs	
<i>Distribution</i>	4,829
<i>Billing & Collection</i>	2,045
<i>Community Relations</i>	256
<i>General Administration</i>	2,757
<i>Provincial Capital Taxes</i>	310
Total Controllable Costs	10,197
Earnings before Int.Taxes & Dep'n	15,443
Depreciation	5,908
Earnings before Interest & Taxes	9,535
Interest Payments - Shareholders	1,449
Interest Payments - Bank Loan	596
Interest on Jr. Debt	1,361
Earnings before Taxes	6,129
Income Taxes	2,214
Net Earnings	\$ 3,915

VECC's Interrogatories

Table IR # 22 (a) - 2007 Approved Operating Budget

Approved November 26, 2006	2007 Budget (\$000,s)
Revenue	
<i>Sales of Electricity</i>	\$ 98,803
<i>Distribution Revenue</i>	24,016
<i>Other Revenue</i>	2,419
Total Revenues	\$ 125,238
Cost of Power	98,803
Gross Margin	\$ 26,435
Controllable Costs	
<i>Distribution</i>	4,657
<i>Billing & Collection</i>	2,114
<i>Community Relations</i>	262
<i>General Administration</i>	3,092
<i>Provincial Capital Taxes</i>	335
Total Controllable Costs	10,460
Earnings before Int.Taxes & Dep'n	15,975
Depreciation	6,782
Earnings before Interest & Taxes	9,193
Interest Payments - Shareholders	1,449
Interest Payments - Bank Loan	526
Interest on Jr. Debt	1,361
Earnings before Taxes	5,857
Income Taxes	2,116
Net Earnings	\$ 3,742

VECC's Interrogatories

Table IR # 22 (a) - 2008 Approved Operating Budget

Approved November 29, 2007	2008 Budget (\$000,s)
Revenue	
<i>Sales of Electricity</i>	\$ 90,607
<i>Distribution Revenue</i>	24,695
<i>Other Revenue</i>	<u>2,584</u>
Total Revenues	\$ 117,886
Cost of Power	<u>90,607</u>
Gross Margin	<u>\$ 27,279</u>
Controllable Costs	
<i>Distribution</i>	4,911
<i>Billing & Collection</i>	2,381
<i>Community Relations</i>	218
<i>General Administration</i>	2,726
<i>Provincial Capital Taxes</i>	<u>340</u>
Total Controllable Costs	<u>10,576</u>
Earnings before Int.Taxes & Dep'n	16,703
Depreciation	<u>6,956</u>
Earnings before Interest & Taxes	9,747
Interest Payments - Shareholders	1,359
Interest Payments - Other	565
Interest on Jr. Debt	<u>1,361</u>
Earnings before Taxes	6,462
Income Taxes	2,334
Net Earnings	\$ 4,128

VECC's Interrogatories

Table IR # 22 (a) - 2009 Approved Operating Budget

Approved November 20, 2008	2009 Budget (\$000,s)
Revenue	
<i>Sales of Electricity</i>	\$ 101,593
<i>Distribution Revenue</i>	24,942
<i>Other Revenue</i>	2,141
Total Revenues	\$ 128,676
Cost of Power	101,593
Gross Margin	\$ 27,083
Controllable Costs	
<i>Distribution</i>	\$ 5,254
<i>Billing & Collection</i>	2,253
<i>Community Relations</i>	245
<i>General Administration</i>	2,841
<i>Provincial Capital Taxes</i>	309
Total Controllable Costs	\$ 10,902
Earnings before Int.Taxes & Dep'n	16,181
Depreciation	7,220
Earnings before Interest & Taxes	\$ 8,961
Interest Payments - Shareholder	1,241
Interest Payments - Bank	242
Interest Payments - Other	637
Interest on Jr. Debt	1,361
Earnings before Taxes	\$ 5,480
Income Taxes	1,808
Net Earnings	\$ 3,672

VECC's Interrogatories

Table IR # 22 (a) - 2010 Approved Operating Budget

Approved November 19, 2009	2010 Budget (\$000,s)
Revenue	
<i>Sales of Electricity</i>	\$ 88,970
<i>Distribution Revenue</i>	24,952
<i>Other Revenue</i>	1,174
Total Revenues	\$ 115,096
Cost of Power	88,970
Gross Margin	\$ 26,126
Controllable Costs	
<i>Distribution</i>	\$ 5,161
<i>Billing & Collection</i>	2,175
<i>Community Relations</i>	256
<i>General Administration</i>	3,019
<i>Provincial Capital Taxes</i>	93
Total Controllable Costs	\$ 10,704
Earnings before Int.Taxes & Dep'n	15,422
Depreciation	7,836
Earnings before Interest & Taxes	\$ 7,586
Interest on Sr. Debt	1,036
Interest Payments - Bank	574
Interest Payments - Other	120
Interest on Jr. Debt	1,361
Earnings before Taxes	\$ 4,496
Income Taxes	1,439
Net Earnings	\$ 3,057

VECC's Interrogatories

- b) Has the Board of Directors approved an operating budget for 2011 or 2012 yet? If so, please provide a copy of the operating budget as approved by the Board of Directors and indicate the date on which the budget(s) was approved. If not, please indicate when the 2011 and/or 2012 operating budgets are expected to be approved by the Board of Directors.***

WNH's Board of Directors has not approved an operating budget for 2011 or 2012. The Board of Directors will be presented with the 2011 operating budget on December 16, 2010. At WNH's presentation of the 2010 operating budget, the Board of Directors also reviewed the five year operating expense plan which included 2011 (and 2012) that was the framework of the 2011 application.

QUESTION #23

Reference: Exhibit 4, page 20, Table 4-5

- a) Please explain why the operating costs in 5055 – Underground Distribution Transformers significantly increased in 2009 and thereafter.***

The costs associated with completing annual inspections of underground plant had been charged to Account 5040 – Underground Distribution Lines and Feeders in 2006, 2007, 2008. This work has been charged to account 5055 beginning in 2009 as the majority of the underground plant inspected is underground distribution transformers.

- b) Please explain why the operating costs in 5155 – Maintenance of Underground Services significantly increased in 2008 and again in 2010.***

The operating costs in Account 5155 – Maintenance of Underground Services were higher in 2008 due to an increased number of service cable faults and the associated repair costs. The 2008 costs are comparable to the actual costs in this account for 2005, 2006 and 2009. The 2007 costs were lower due to a lower number of service cable faults that year.

The 2010 cost increase is a result of increased inspection activity and WNH has identified additional underground cable maintenance activity requirements.

VECC's Interrogatories

QUESTION #24

Reference: *Exhibit 4, page 46, Table 4-7*

- a) Please explain whether the percentages used to allocate costs in the rightmost column were determined by tracking staff time spent on WNH and WNHHC related tasks or whether a high-level estimate was used.***

In the setting of the percentages initially, WNH's experience of the time required was used. Subsequently this percentage has continued to be used, WNH is not tracking actual staff time spent.

- b) Please indicate how the capital costs associated with assets used to provide shared services are recovered from WNHHC.***

WNH determined through a review that it provided no dedicated staff or assets to WNHHC and any use of such would be immaterial, thus, no amount has been charged.

QUESTION #25

Reference: *Exhibit 4, page 50*

- a) Please provide the projected balance in Deferral Account 1508 – Other Regulatory Assets – IFRS as at December 31, 2010.***

WNH has a projected balance of \$90,477 in Deferral Account 1508 – Other Regulatory Assets – IFRS at December 31, 2010.

QUESTION #26

Reference: *Exhibit 4, page 65 and Exhibit 2, page 68, Table 4-14*

- a) For the category Compensation – Average Yearly Base Wages, please explain the much larger percentage increases in 2009 over 2006 for the Executive and Management Groups as compared to the Non-Union and Union Groups.**

The larger increase percentage in 2009 over 2006 for the Executive and Management Groups as compared to the Non-Union and Union Groups is a result of having one person in the Executive and Management Group being on salary progression in 2006 and three persons in 2009. In addition, WNH replaced a Finance Co-ordinator that was on staff in 2006, with a Finance Manager, who is included in the 2009 statistics, thus, also contributing to the percentage increase.

- b) On page 65 the evidence states that “Management employees and supervisors, except trades forepersons, are not paid overtime.” On Table 4-14, however, under the category Compensation – Average Yearly Overtime, the amounts shown for 2006 and 2009 for Management are shown as \$2,692 and \$6,184 respectively. Please confirm that these amounts are for trades forepersons only and please provide the number of such employees included in the management group for 2006 and 2009. If unable to so confirm, please explain.**

In 2006, management employees and supervisors, other than trades forepersons were eligible to receive overtime. In 2006 12 such employees were paid overtime.

Subsequent to 2006 WNH revised its policy and only trades forepersons are eligible to receive overtime. In 2009 7 such employees were paid overtime.

VECC's Interrogatories

c) Please explain why the amounts shown under Compensation – Average Yearly Overtime, decrease significantly in 2010 and 2011.

During the time period from April 1, 2007 to March 31, 2010 WNH's Line Construction crews worked a 4 x 10 hour normal work week during the period from May to September.

After this schedule was implemented it enabled WNH to increase the percentage of capital construction work completed by its own work force by scheduling a greater level of planned overtime on either the Monday or the Friday that its line construction staff were not regularly scheduled to work.

Commencing April 1, 2010 WNH's line construction crew standard work week is a 5 x 8 hour week from Monday to Friday. As a result, the amount of planned overtime used for having WNH's own Line Construction staff complete capital construction projects has been reduced significantly in 2010 and will remain at this lower level in 2011.

WNH is utilizing additional external line contractors to ensure all of the projects in its capital construction program are completed on the required timelines in 2010 and 2011.

VECC's Interrogatories

LRAM AND SSM

QUESTION #27

Reference: Exhibit 10, page 15 and Attachment A

Preamble: For SSM, a distributor may recover 5% of the net benefits (TRC) created by CDM portfolio investments. As set out in the CDM Guidelines, program net benefits are determined by the present value of the avoided electricity costs over the technology's/program's life minus the present value of program costs. All results are net of free ridership. Incentive payments identified by Waterloo North Hydro are excluded from these calculations. For all programs/projects, the OEB Total Resource Cost Guide, Section 5, Assumptions and Measures List September 8, 2005 were used in TRC calculations in accordance with OEB's direction letter, Conservation and Demand Management ("CDM") Input Assumptions Board File No.: EB-2008-0352, January 27, 2009.

- a) Please confirm that the current CDM Guidelines and Policy Letter as referenced above specify that SSM Assumptions used from the beginning of any year will be those assumptions in existence in the immediately prior year. For example, if any input assumptions change in 2007, those changes should apply for SSM purposes from the beginning of 2008 onwards until changed again....***

WNH confirms that the current CDM Guidelines and Policy Letter as referenced above specify that SSM Assumptions used from the beginning of any year will be those assumptions in existence in the immediately prior year. The OPA released new assumptions and measures lists in April 2009. Therefore, for any new programming starting January 2010, the new assumptions and measures will be used to calculate SSM.

- b) Please indicate when (year and date) the OPA changed its Input assumptions (unit savings and free ridership) for CFLs under the Every Kilowatt Counts Campaigns.***

The unit savings (and free ridership) assumptions for CFLs embedded in the 2006 EKC Campaign calculator, although not explicitly identified, were imputed to be 104 kWh, consistent with the Conservation Bureau's December 2006 Residential Education and Coupon Incentive ("Every Kilowatt Counts") Program report. Changes to these assumptions were published until the OPA issued the revised assumptions and measures list in April 2009. In accordance with the guideline above, assumptions and measures list published by the OPA in April, 2009 were used in LRAM calculations only. SSM calculations therefore accurately reflect the use of 2005 assumptions and measures, representing those in existence at the time TRC calculations were performed for 3rd tranche CFL program decisions.

VECC's Interrogatories

- c) ***Please provide a copy of the SeeLine EKC calculators before and after the change Confirm /Show how the EKC assumptions compare to the latest OPA Mass Market and CI Measures and Input Assumptions.***

See Line's EKC calculator was not applied in the calculation of TRC results. Assumption changes are described in 27a)

- d) ***Please provide a copy of the spreadsheet showing the SSM calculation as filed. Reconcile to Attachment C.***

No changes were made to SSM calculations.

- e) ***Please provide a calculation of the 3rd tranche SSM for the Low Income Retrofit Program using the OPA EKC input assumptions for CFLs from January (2007?) following the change in input assumptions. Also, please provide a revised version of Attachment C.***

As per WNH's response in 27(b), there would be no change to 3rd tranche SSM calculations since there was no change to input assumptions.

- f) ***Please provide the details for the Residential Geothermal Energy Project SSM, including if not using custom project inputs, comparing the input assumptions to the OPA 2010 Measures and Assumptions List (see below for LRAM also).***

WNH has provided the details for the Residential Geothermal Energy Project SS below.

As Filed Geothermal Inputs:

# of Units:	35
Free Ridership:	30%
Annual kWh saved:	1,001,318 kWh
Technology Life:	20 Years

OPA 2010 Assumptions and Measures List – Ground Source Heat Pump:

# of Units:	35
Free Ridership:	0%
Annual kWh saved:	184,800 kWh
Technology Life:	20 Years

QUESTION #28

Reference: Exhibit 10 Page 16 and Attachments A and E

Preamble: For all programs/projects, the most recently published OPA assumptions and measures list were used in LRAM calculations in accordance with OEB's direction letter, Conservation and Demand Management ("CDM") Input Assumptions Board File No.: EB-2008-0352, January 27, 2009 and consistent with recent Decision and Order EB-2009-0192 for Horizon Utilities Corporation that directed LRAM calculations use the most current available input assumptions for all CDM programs.

For LRAM the Guidelines and Policy Letter of January 27, 2009 Specify that The input assumptions used for the calculation of LRAM should be the best available at the time of the third party assessment referred to in section 7.5. For example, if any input assumptions change in 2007, those changes should apply for LRAM purposes from the beginning of 2007 onwards until changed again.....

a) Please confirm the sources and specific Input assumptions for the following 3rd tranche CDM programs

- Geothermal Energy Program-#units, unit kwh savings, operating hours, lifetime and free ridership for each year 2006-2009. Reconcile to net 2,942,023 total kwh and 342.92 Kw peak and to Attachment E***

Originally Filed:

# of Units:	35
Unit kWh Savings	28,019 kWh
Unit kW savings:	3.257 kW
Operating Hours:	8,760
Lifetime kWh:	$(28,019 \times 35) \times 20 = 19,613,300$
Free Ridership:	30%

VECC's Interrogatories

Reconcile to 2,942,023:

$$= 28,019/\text{unit} * 35 \text{ unit} = 980,674\text{kWh per year}$$

$$2007: 980,674 + 2008: 980,674 + 2009: 980,674 = 2,942,023\text{kWh}$$

Reconcile to 342.92 kW:

$$= 3.257/\text{unit} * 35 \text{ units} = 114 \text{ kW}$$

$$2007: 114 + 2008: 114 + 2009: 114 = 342\text{kW}$$

- ***Low Income Consumer Retrofit Program –# units and unit and total kwh savings, operating hours, lifetime and free ridership for each year 2008-2009 Reconcile to net 168,434 total kwh and 25.78 kw peak and Attachment E.***

WNH has provided the Low Income Consumer Retrofit Program information below.

VECC's Interrogatories

Table IR # 28 (a) - Low Income Consumer Retrofit Program Information

	# of Units	Unit kWh Savings	Unit kW savings	Operating Hours	Lifetime kWh	Free Ridership
11W CFL	138	27.7	0.001	985.5	27,523	10%
15W CFL	324	43	0.001	985.5	194,089	10%
25W CFL	174	71.7	0.002	985.5	280,706	10%
2 - T8 32W	9	392	0.084	4,000	15,876	10%
4 - T8 32W	3	288	0.062	4,000	3,888	10%
1 - T8 32W	48	160	0.034	4,000	27,648	10%
15W CFL - COMMERCIAL	147	172	0.037	4,000	119,070	10%
3W LED EXIT SIGN	6	273	0.026	8,760	31,930	10%
100W METAL HALIDE	96	108	0.053	4,000	46,656	10%

The Reconciliation is as follows:

Class	NET		GROSS		NET		GROSS		NET		GROSS	
	2008		2008		2009		2009		Total kWh	Total kW	Total kWh	Total kW
Program	kWh	kW	kWh	kW	kWh	kW	kWh	kW				
Third Tranche												
RESIDENTIAL												
Low Income Consumer Retrofit Program	84,217	12.89	99,864	15.98	84,217	12.89	99,864	15.98	168,434	25.78	199,728	31.95
11W CFL	3,440	0.12	3,823	0.14	3,440	0.12	3,823	0.14	6,881	0.25	7,645	0.28
15W CFL	24,261	0.56	26,957	0.62	24,261	0.56	26,957	0.62	48,522	1.12	53,914	1.25
25W CFL	11,228	0.31	12,476	0.35	11,228	0.31	12,476	0.35	22,456	0.63	24,952	0.70
2 - T8 32W	3,175	0.68	3,969	0.85	3,175	0.68	3,969	0.85	6,350	1.36	7,938	1.70
4 - T8 32W	778	0.17	972	0.21	778	0.17	972	0.21	1,555	0.33	1,944	0.42
1 - T8 32W	6,912	1.48	8,640	1.85	6,912	1.48	8,640	1.85	13,824	2.95	17,280	3.69
15W CFL - COMMERCIAL	23,814	4.84	29,768	6.04	23,814	4.84	29,768	6.04	47,628	9.67	59,535	12.09
3W LED EXIT SIGN	1,277	0.14	1,597	0.17	1,277	0.14	1,597	0.17	2,554	0.28	3,193	0.35
100W METAL HALIDE	9,331	4.60	11,664	5.75	9,331	4.60	11,664	5.75	18,662	9.19	23,328	11.49

VECC's Interrogatories

b) Please confirm the free-ridership assumptions for CFLs.

WNH confirms the free-ridership assumption for CFLs at 10%.

QUESTION #29 ATTACH PDF DOCUMENTS

***Reference: Exhibit 10, page 15, Results Table
Exhibit 10; page 6 and 8 (LRAM) Tables 10-1 and 10-2***

a) Based on the response to Questions #26 and #27, please provide a calculation of the revised LRAM/SSM schedules for 3rd tranche programs (including Carrying charges) and recalculate the rate riders.

WNH has attached a calculation of the revised LRAM/SSM program Attachments as Appendix A.

WNH has attached a table below detailing the recalculation of the rate riders, including carrying charges based on the responses to IR # 26 and # 27.

VECC's Interrogatories

Table IR # 29 - Revised LRAM/SSM Rate Rider Calculation

Rate Class	Amounts 2005 - 2009			Billing Units (2011) ¹		Rate Riders Recovered Over One Year				Four Year Rate Rider
	LRAM	SSM	Carrying Charges			LRAM	SSM	Carrying Charges	Total	Total
	\$	\$	\$	kWh	kW	\$/unit (kWh or kW)	\$/unit (kWh or kW)	\$/unit (kWh or kW)	\$/unit (kWh or kW)	\$/unit (kWh or kW) ¹
Residential	336,157	2,541	18,348	382,563,062		0.0009	0.0000	0.0000	0.0009	0.0002
GS < 50 kW	47,365	9,518	3,082	175,321,434		0.0003	0.0001	0.0000	0.0003	0.0001
GS > 50 kW	878,363	-	47,583		1,566,291	0.5608	-	0.0304	0.5912	0.1478
Large User	-	-	-	-	-	-	-	-	-	-
Street Lighting	10,152	9,927	1,088		21,547	0.4712	0.4607	0.0505	0.9823	0.2456
USL	22,655	6,572	1,583	1,648,666		0.0137	0.0040	0.0010	0.0187	0.0047
Total	1,294,691	28,558	71,683							

¹ As originally submitted August 27, 2011

² WNH is proposing a Four Year Recovery Period

VECC's Interrogatories

QUESTION #30

Reference: Exhibit 10, page 16 and Attachments A and B

Preamble: OPA sponsored programs also represent lost revenue through their successful implementation and are included in LRAM calculations. Lost revenue from results attributable to Waterloo North Hydro funded programs were also included in the LRAM calculations. Although not specifically addressed in the CDM Guidelines, this assessment was considered to be consistent with the CDM Guideline intention of removing the disincentive of eroding distributor revenues due to lower than forecast revenues.

a) For each year 2006-2009 inclusive, please provide details of the OPA EKC campaigns from 2006-2009 that add to the data shown in Attachment B- Residential lines 5 and 11- Every Kilowatt counts–

- i. # units***
- ii. unit and total kwh savings,***
- iii. operating hours,***
- iv. lifetime and***
- v. free ridership***

WNH has attached details of the OPA EKC campaigns as Appendix B.

b) Please reconcile to the revenue for each year and to the Total Revenue.

WNH has provided its reconciliation as originally filed.

Net Energy Savings (MWh)

#	Initiative Name	Program Year	Results Status	2006	2007	2008	2009
3	Every Kilowatt Counts	2006	Final	3,484,316	3,484,316	3,484,316	3,484,316
8	Every Kilowatt Counts	2007	Final	0	1,289,518	1,273,747	1,273,747
2	Every Kilowatt Counts Power Savings Event	2008	Final	0	0	1,184,784	1,179,630
3	Every Kilowatt Counts Power Savings Event	2009	Preliminary	0	0	0	316,935

VECC's Interrogatories

EKC 2006: $= (1/4) * 3,484,316 * 0.0125 + (3/4) * 3,484,316 * 0.0134 = \$45,905.87$

EKC 2007: $= (1/3) * (3,484,316 + 1,289,518) * 0.0134 + (2/3) * (3,484,316 + 1,289,518) * 0.0135 = \$64,287.64$

EKC 2008: $= (1/3) * (3,484,316 + 1,273,747) * 0.0135 + (2/3) * (3,484,316 + 1,273,747) * 0.0134 = \$63,916.65$

EKC 2009: $= (1/3) * (3,484,316 + 1,273,747) * 0.0134 + (2/3) * (3,484,316 + 1,273,747) * 0.0134 = \$63,758.05$

EKC POWER SAVINGS EVENT 2008: $= (1/3) * 1,184,784 * 0.0135 + (2/3) * 1,184,784 * 0.0134 = \$15,915.59$

EKC POWER SAVINGS EVENT 2009: $= (1/3) * (1,179,630 + 316,935) * 0.0134 + (2/3) * (1,179,630 + 316,935) * 0.0134 = \$20,053.97$

Appendix A

LRAM/SSM Program Attachments

ATTACHMENT A
CDM Load Impacts by Class and Program

Class Program	Year Implemented	NET 2006		GROSS 2006		NET 2007		GROSS 2007		NET 2008		GROSS 2008		NET 2009		GROSS 2009		NET		GROSS	
		kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	Total kWh	Total kW	Total kWh	Total kW
Third Tranche																					
RESIDENTIAL																					
Geothermal Energy Program	2006					184,800	8.86	184,800	8.86	184,800	8.86	184,800	8.86	184,800	8.86	184,800	8.86	554,400	26.57	554,400	26.57
Low Income Consumer Retrofit Program	2007									84,217	12.89	99,864	15.98	84,217	12.89	99,864	15.98	168,434	25.78	199,728	31.95
11W CFL								3,440	0.12			3,823	0.14	3,440	0.12	3,823	0.14	6,881	0.25	7,645	0.28
15W CFL								24,261	0.56			26,957	0.62	24,261	0.56	26,957	0.62	48,522	1.12	53,914	1.25
25W CFL								11,228	0.31			12,476	0.35	11,228	0.31	12,476	0.35	22,456	0.63	24,952	0.70
2 - T8 32W								3,175	0.68			3,969	0.85	3,175	0.68	3,969	0.85	6,350	1.36	7,938	1.70
4 - T8 32W								778	0.17			972	0.21	778	0.17	972	0.21	1,555	0.33	1,944	0.42
1 - T8 32W								6,912	1.48			8,640	1.85	6,912	1.48	8,640	1.85	13,824	2.95	17,280	3.69
15W CFL - COMMERCIAL								23,814	4.84			29,768	6.04	23,814	4.84	29,768	6.04	47,628	9.67	59,535	12.09
3W LED EXIT SIGN								1,277	0.14			1,597	0.17	1,277	0.14	1,597	0.17	2,554	0.28	3,193	0.35
100W METAL HALIDE								9,331	4.60			11,664	5.75	9,331	4.60	11,664	5.75	18,662	9.19	23,328	11.49
GENERAL SERVICE < 50kW																					
Energy Audits for Industrial, Commercial and Institutional Customers (Cool Shops)	2006					308,503	14.96	353,899	17.83	308,503	14.96	353,899	17.83	308,503	14.96	353,899	17.83	925,509	44.88	1,061,696	53.50
11W CFL						9,199	0.33	10,221	0.37	9,199	0.33	10,221	0.37	9,199	0.33	10,221	0.37	0	0.00	0	0.00
15W CFL						91,524	2.12	101,693	2.35	91,524	2.12	101,693	2.35	91,524	2.12	101,693	2.35	27,598	1.00	30,664	1.11
23W CFL						716	0.03	795	0.03	716	0.03	795	0.03	716	0.03	795	0.03	274,571	6.36	305,078	7.06
27W CFL						12,067	0.34	13,408	0.37	12,067	0.34	13,408	0.37	12,067	0.34	13,408	0.37	2,147	0.09	2,386	0.10
BR15W and 16W						26,361	0.61	29,290	0.68	26,361	0.61	29,290	0.68	26,361	0.61	29,290	0.68	36,201	1.01	40,224	1.12
LED Exit Signs						79,613	8.63	99,516	10.79	79,613	8.63	99,516	10.79	79,613	8.63	99,516	10.79	79,082	1.83	87,869	2.03
PAR 20W and 23W						88,592	2.81	98,436	3.12	88,592	2.81	98,436	3.12	88,592	2.81	98,436	3.12	238,838	25.90	298,547	32.38
T8 32W 1x4'						432	0.09	540	0.12	432	0.09	540	0.12	432	0.09	540	0.12	265,777	8.42	295,308	9.36
																		1,296	0.28	1,620	0.35
STREET LIGHTING																					
Street Lighting										258,957	61.44	369,939	87.77	258,957	61.44	369,939	87.77	517,915	122.88	739,878	175.54
UNMETERED SCATTERED LOAD																					
Traffic Lights		99,397	15.47	141,996	22.10	584,300	115.45	834,714	164.93	724,373	118.13	1,034,819	168.76	724,373	118.13	1,034,819	168.76	2,132,444	367.18	3,046,348	524.55
OPA Programs																		0	0.00	0	0.00
A Copy of the Program Measures by Year, Unit kWh Savings, Useful Life, # of Units can be found on "OPA MEASURES" Tab																					
Residential																					
Cool & Hot Savings Rebate Program	2006-2007	134,283	124.45	170,112	151.32	349,402	267.98	592,626	452.61	349,402	267.98	592,626	452.61	349,402	267.98	592,626	452.61	1,182,488	928.38	1,947,991	1357.82
Cool Savings Rebate	2008-2009									233,397	147.85	406,305	256.68	599,837	385.76	1,037,069	668.33				
Secondary Fridge Retirement Pilot	2006	54,397	12.33	60,441	13.70	54,397	12.33	60,441	13.70	5,440	12.33	60,441	13.70	54,397	12.33	60,441	13.70	168,630	49.32	241,763	41.10
Great Refrigerator Roundup	2007-2009					122,263	14.82	302,900	36.38	407,043	45.23	828,517	92.92	642,011	76.43	1,313,530	157.74	1,171,318	136.48	2,444,947	287.04
Every Kilowatt Counts	2006-2007	3,484,316	41.09	3,871,463	45.66	4,773,834	91.03	5,630,706	117.96	4,758,064	86.34	5,602,032	109.44	4,758,064	86.34	5,602,032	109.44	17,774,278	304.80	20,706,233	336.84
peaksaver®	2007-2009						0.00			3,083	154.14	3,425	171.27	10,563	528.17	11,737	586.85	13,646	682.31	15,162	758.12
Summer Savings	2007					646	361.61	5,383	3,013.39	109	107.84	907	898.67	41	51.92	343	432.69	796	521.37	6,633	4344.75
Social Housing – Pilot	2007					117,201	13.79	117,201	13.79	117,201	13.79	117,201	13.79	117,201	13.79	117,201	13.79	351,602	41.36	351,602	41.36
Energy Efficiency Assistance for Houses – Pilot	2007					67,035	19.72	6,703	19.72	67,035	19.72	67,035	19.72	67,035	19.72	67,035	19.72	201,104	59.15	140,773	59.15
Summer Sweepstakes	2008									96	95.65	487,309	123.28	35	54.85	175,847	70.70	130	150.50	663,156	193.98
Every Kilowatt Counts Power Savings Event	2008-2009									1,184,784	64.61	2,938,449	154.75	1,496,565	87.50	3,407,575	198.88	2,681,348	152.11	6,346,024	353.62
General Service<50kW																					
OPA Conservation Programs																					
High Performance New Construction	2008-2009									3,392	4.02	4,846	5.74	107,986	49.90	154,266	71.28	111,378	53.91	159,112	77.02
Power Savings Blitz	2008-2009									2,189	0.30	2,354	0.32	3,280,882	442.79	3,527,830	476.12	3,283,071	443.10	3,530,184	476.45
																		0	0.00	0	0.00
General Service>50kW to 4,999kW																					
OPA Conservation Programs																					
Demand Response 1	2006 -2008		3136.94		3,136.94		3,669.01		3,669.01		5195.19		5195.19		2071.34		2071.34	0	14072.47	0	10935.53
Demand Response 2	2009														1808.36		1808.36				
Demand Response 3	2008									1004.64		1004.64		2009.29		2009.29		0	3013.93	0	3013.93
Electricity Retrofit Incentive Program	2007-2009									35.46		723,771		142.01		835,880		0	137.37	1,559,651	317.74
Electricity Resources Demand Response	2006-2009		153.54		153.54		308.46		308.46	419,457	343.92		347.46	484,481	377.13		380.67				

Foregone Revenue by Class and Program

		2006				2007				2008				2009				
Class Program	Year Implemented	Load Unit	kWh or kW	Rate per Unit	Revenue	Load Unit	kWh or kW	Rate per Unit	Revenue	Load Unit	kWh or kW	Rate per Unit	Revenue	Load Unit	kWh or kW	Rate per Unit	Revenue	Total Revenue
Third Tranche																		
RESIDENTIAL																		
Geothermal Energy Program						184,800	kWh	0.0135	\$2,488.64	184,800	kWh	0.0134	\$2,482.48	184,800	kWh	0.0134	\$2,476.32	\$7,447.44
Low Income Consumer Retrofit Program										84,217	kWh	0.0134	\$1,131.31	84,217	kWh	0.0134	\$1,128.51	\$2,259.82
																		\$9,707.26
GENERAL SERVICE < 50kW																		
Energy Audits for Industrial, Commercial and Institutional Customers (Cool Shops)						308,503	kWh	0.0135	\$4,154.51	308,503	kWh	0.0107	\$3,588.92	308,503	kWh	0.0107	\$3,300.98	\$11,044.41
																		\$11,044.41
STREET LIGHTING																		
Street Lighting										61.44	kW	6.8734	\$5,079.54	61.44	kW	6.8828	\$5,072.24	\$10,151.78
UNMETERED SCATTERED LOAD																		
Traffic Lights		99,397	kWh	0.0106	\$1,041.19	584,300	kWh	0.0107	\$6,232.53	724,373.39	kWh	0.0106	\$7,702.50	724,373.39	kWh	0.0106	\$7,678.36	\$22,654.58
OPA Programs																		
Residential																		
Cool & Hot Savings Rebate Program		134,283	kWh	0.0134	\$1,769.17	349,402	kWh	0.0135	\$4,705.28	349,402	kWh	0.0134	\$4,693.63	349,402	kWh	0.0134	\$4,681.99	\$15,850.07
Cool Savings Rebate		0	kWh	0.0134	\$0.00	0	kWh	0.0135	\$0.00	233,397	kWh	0.0134	\$3,135.31	599,837	kWh	0.0134	\$8,037.82	\$11,173.12
Secondary Fridge Retirement Pilot		54,397	kWh	0.0134	\$716.68	54,397	kWh	0.0135	\$732.54	5,440	kWh	0.0134	\$73.07	54,397	kWh	0.0134	\$728.92	\$2,251.21
Great Refrigerator Roundup		0	kWh	0.0134	\$0.00	122,263	kWh	0.0135	\$1,646.48	407,043	kWh	0.0134	\$5,467.95	642,011	kWh	0.0134	\$8,602.95	\$15,717.38
Every Kilowatt Counts		3,484,316	kWh	0.0134	\$45,905.87	4,773,834	kWh	0.0135	\$64,287.64	4,758,064	kWh	0.0134	\$63,916.65	4,758,064	kWh	0.0134	\$63,758.05	\$237,868.21
peaksaver®		0	kWh	0.0134	\$0.00	0	kWh	0.0135	\$0.00	3,083	kWh	0.0134	\$41.41	10,563	kWh	0.0134	\$141.55	\$182.96
Summer Savings		0	kWh	0.0134	\$0.00	646	kWh	0.0135	\$8.70	109	kWh	0.0134	\$1.46	41	kWh	0.0134	\$0.55	\$10.71
Social Housing – Pilot		0	kWh	0.0134	\$0.00	117,201	kWh	0.0135	\$1,578.30	117,201	kWh	0.0134	\$1,574.40	117,201	kWh	0.0134	\$1,570.49	\$4,723.19
Energy Efficiency Assistance for Houses – Pilot		0	kWh	0.0134	\$0.00	67,035	kWh	0.0135	\$902.73	67,035	kWh	0.0134	\$900.50	67,035	kWh	0.0134	\$898.26	\$2,701.50
Summer Sweepstakes		0	kWh	0.0134	\$0.00	0	kWh	0.0135	\$0.00	96	kWh	0.0134	\$1.28	35	kWh	0.0134	\$0.46	\$1.75
Every Kilowatt Counts Power Savings Event		0	kWh	0.0134	\$0.00	0	kWh	0.0135	\$0.00	1,184,784	kWh	0.0134	\$15,915.59	1,496,565	kWh	0.0134	\$20,053.97	\$35,969.56
																		\$326,449.66
GENERAL SERVICE Less Than 50kW																		
OPA Conservation Programs																		
High Performance New Construction										3,392	kWh	0.0107	\$36.41	107,986	kWh	0.0107	\$1,155.45	\$1,191.86
Power Savings Blitz										2,189	kWh	0.0107	\$23.50	3,280,882	kWh	0.0107	\$35,105.44	\$35,128.94
																		\$36,320.80
General Service>50kW to 4,999kW																		
OPA Conservation Programs																		
Demand Response 1		3,136.94	kW	3.6218	\$133,446.69	3,669.01	kW	3.6531	\$160,379.68	5,195.19	kW	3.6275	\$226,678.40	2,071.34	kW	3.6325	\$90,248.16	\$610,752.93
Demand Response 2														1,808.36	kW	3.6325	\$78,790.12	\$78,790.12
Demand Response 3										1,004.64	kW	3.6275	\$43,834.98	2,009.29	kW	3.6325	\$87,544.57	\$131,379.55
Electricity Retrofit Incentive Program										35.46	kW	3.6275	\$1,547.12	101.91	kW	3.6325	\$4,440.09	\$5,987.21
Electricity Resources Demand Response		153.54	kW	3.6218	\$6,531.65	308.46	kW	3.6531	\$13,483.52	343.92	kW	3.6275	\$15,006.08	377.13	kW	3.6325	\$16,431.68	\$51,452.94
																		\$878,362.74

ATTACHMENT C**SSM Amounts by Class and Program**

Class Program	Total Costs \$	Total Benefits \$	Net Benefits \$ NPV	Benefits/C ost Ratio	SSM Amount \$
Third Tranche					
RESIDENTIAL					
Geothermal Energy Program	\$775,000.00	\$965,634.37	\$190,634.37	1.25	\$9,531.72
Residential Energy Efficiency Project	\$78,680.00	\$0.00	-\$78,680.00		-\$3,934.00
Low Income Consumer Retrofit Program	\$24,424.00	\$0.00	-\$24,424.00		-\$1,221.20
Energy Conservation Information for Consumers	\$31,576.00	\$0.00	-\$31,576.00		-\$1,578.80
Low Income Consumer Retrofit Program	\$41,749.60	\$36,608.05	-\$5,141.55	0.88	-\$257.08
GENERAL SERVICE < 50kW					
Energy Audits for Industrial, Commercial and Institutional Customers (Cool Shops)	\$44,785.58	\$235,150.99	\$190,365.42	0.19	\$9,518.27
STREET LIGHTING					
Street Lighting	\$50,941.00	\$249,471.99	\$198,530.99	4.90	\$9,926.55
UNMETERED SCATTERED LOAD					
Traffic Lights	\$619,559.00	\$751,006.81	\$131,447.81		\$6,572.39
TOTALS	\$1,666,715.18	\$2,237,872.21	\$571,157.04		\$28,557.85

ATTACHMENT D
LRAM & SSM Totals

Rate Class

	LRAM \$	SSM \$	TOTAL \$
<u>Third Tranche</u>			
RESIDENTIAL	\$9,707.26	\$2,540.64	\$12,247.90
GENERAL SERVICE < 50kW	\$11,044.41	\$9,518.27	\$20,562.68
STREET LIGHTING	\$10,151.78	\$9,926.55	\$20,078.33
UNMETERED SCATTERED LOAD	\$22,654.58	\$6,572.39	\$29,226.97
<u>OPA Programs</u>			
RESIDENTIAL	\$326,449.66		\$326,449.66
GENERAL SERVICE <50KW	\$36,320.80		\$36,320.80
GENERAL SERVICE >50KW	\$878,362.74		\$878,362.74
	\$1,294,691.23	\$28,557.85	\$1,323,249.08

ATTACHMENT E

LRAM & SSM Input Assumptions

Class		Free Rider Rate		Number of Units		Table Applied		Discount Factor		Technology Life	
Program		LRAM	SSM	LRAM	SSM	LRAM	SSM	LRAM	SSM	LRAM	SSM
Third Tranche											
RESIDENTIAL											
Geothermal Energy Program		30%		114		Direct Input		6.51%		20	
Low Income Consumer Retrofit Program											
11W CFL		10%		138		OPA OEB		6.51%		8 3	
15W CFL		10%		624		OPA OEB		6.51%		8 4	
25W CFL		10%		174		OPA OEB		6.51%		8 4	
2 - T8 32W		10%		9		OPA OEB		6.51%		5	
4 - T8 32W		10%		3		OPA OEB		6.51%		5 4	
1 - T8 32W		10%		48		OPA OEB		6.51%		5	
15W CFL - COMMERCIAL		10%		147		OPA OEB		6.51%		5 2	
3W LED EXIT SIGN		10%		6		OPA OEB		6.51%		25	
100W METAL HALIDE		10%		96		OPA OEB		6.51%		5 3	
GENERAL SERVICE 50 TO 4,999 kW											
Energy Audits for Industrial, Commercial and Institutional Customers (Cool Shops)											
11W CFL		10%		369		OPA OEB		6.51%		8 4	
15W CFL		10%		2,354		OPA OEB		6.51%		8 4	
23W CFL		10%		16		OPA OEB		6.51%		8 4	
27W CFL		10%		187		OPA OEB		6.51%		8 4	
BR15W and 16W		10%		678		OPA OEB		6.51%		8 4	
LED Exit Signs		10%		374		OPA OEB		6.51%		25 20	
PAR 20W and 23W		10%		1,560		OPA OEB		6.51%		8 4	
T8 32W 1x4'		10%		3		OPA OEB		6.51%		5	
UNMETERED SCATTERED LOAD											
Traffic Lights						DIRECT INPUT					
Street Lighting						DIRECT INPUT					

Appendix B

OPA EKC Campaigns

OPA Conservation & Demand Management Programs

Measure Results at End-User Level

For:

#	Initiative Name	Program Year	Results Status	#	Measure Name	Unit Savings Assumptions								Province Wide Results						
						Gross Summer Peak Demand Savings (kW)	Gross Annual Energy Savings (kWh)	Gross Lifetime Energy Savings (kWh)	Net Summer Peak Demand Savings (kW)	Net Annual Energy Savings (kWh)	Net Lifetime Energy Savings (kWh)	Aggregate Net-to-Gross Adjustment (%)	Effective Useful Life (EUL)	Activity Results (#)	Gross Summer Peak Demand Savings (kW)	Gross Annual Energy Savings (kWh)	Gross Lifetime Energy Savings (kWh)	Net Summer Peak Demand Savings (kW)	Net Annual Energy Savings (kWh)	Net Lifetime Energy Savings (kWh)
9	Every Kilowatt Counts	2006	Final	1	Energy Star® Compact Fluorescent Light Bulb - Spring Campaign	0.000	104	418	0.000	94	376	90.0	4.0	13,010.734	0.00	1,358,321	5,433,283	0.00	1,222,489	4,889,954
10	Every Kilowatt Counts	2006	Final	2	Electric Timers - Spring Campaign	0.000	183	3,660	0.000	165	3,294	90.0	20.0	364.751	0.00	66,749	1,334,987	0.00	60,074	1,201,488
11	Every Kilowatt Counts	2006	Final	3	Programmable Thermostats - Spring Campaign	0.050	216	3,240	0.045	194	2,916	90.0	15.0	158.663	7.93	34,271	514,069	7.14	30,844	462,662
12	Every Kilowatt Counts	2006	Final	4	Energy Star® Ceiling Fans - Spring Campaign	0.014	141	2,820	0.013	127	2,538	90.0	20.0	120.699	1.69	17,019	340,371	1.52	15,317	306,334
13	Every Kilowatt Counts	2006	Final	5	Energy Star® Compact Fluorescent Light Bulb - Autumn Campaign	0.000	104	418	0.000	94	376	90.0	4.0	19,291.071	0.00	2,013,988	8,055,951	0.00	1,812,589	7,250,356
14	Every Kilowatt Counts	2006	Final	6	Seasonal Light Emitting Diode Light String - Autumn Campaign	0.000	31	923	0.000	28	830	90.0	30.0	4,643.350	0.00	142,783	4,283,491	0.00	128,505	3,855,142
15	Every Kilowatt Counts	2006	Final	7	Programmable Thermostats - Autumn Campaign	0.118	522	9,398	0.106	470	8,458	90.0	18.0	306.087	36.04	159,806	2,876,516	32.43	143,826	2,588,864
16	Every Kilowatt Counts	2006	Final	8	Dimmers - Autumn Campaign	0.000	139	1,390	0.000	125	1,251	90.0	10.0	242.030	0.00	33,642	336,421	0.00	30,278	302,779
17	Every Kilowatt Counts	2006	Final	9	Indoor Motion Sensors - Autumn Campaign	0.000	209	4,180	0.000	188	3,762	90.0	20.0	86.847	0.00	18,151	363,019	0.00	16,336	326,717
18	Every Kilowatt Counts	2006	Final	10	Programmable Basebaord Thermostats - Autumn Campaign	0.000	1,466	26,393	0.000	1,320	23,754	90.0	18.0	18.231	0.00	26,732	481,184	0.00	24,059	433,065
40	Every Kilowatt Counts	2007	Final	1	15 W CFL	0.001	43	344	0.001	34	268	78.0	8.0	23,401.287	30.42	1,006,255	8,050,043	23.73	784,879	23,401
41	Every Kilowatt Counts	2007	Final	2	20+ W CFL	0.002	62	497	0.001	48	388	78.0	8.0	3,809.509	7.24	236,570	1,892,564	5.65	184,525	3,810
42	Every Kilowatt Counts	2007	Final	3	Energy Star® Light Fixture	0.006	123	1,966	0.003	68	1,082	55.0	16.0	90.895	0.51	11,171	178,735	0.28	6,144	91
43	Every Kilowatt Counts	2007	Final	4	T8 Fluorescent Tube	0.001	37	670	0.001	29	516	77.0	18.0	178.145	0.21	6,627	119,286	0.16	5,103	178
44	Every Kilowatt Counts	2007	Final	5	Seasonal LED Light String	0.000	14	69	0.000	7	34	49.0	5.0	6,199.804	0.00	84,937	424,687	0.00	41,619	6,200
45	Every Kilowatt Counts	2007	Final	6	Project Porchlight CFL	0.001	43	344	0.001	33	261	76.0	8.0	4,924.404	6.40	211,749	1,693,995	4.87	160,930	4,924
46	Every Kilowatt Counts	2007	Final	7	Solar Light	0.000	5	24	0.000	1	3	13.0	5.0	3,004.359	0.00	14,451	72,255	0.00	1,879	3,004
47	Every Kilowatt Counts	2007	Final	8	Energy Star® Ceiling Fan	0.003	90	898	0.002	49	494	55.0	10.0	188.762	0.53	16,951	169,508	0.29	9,323	189
48	Every Kilowatt Counts	2007	Final	9	Furnace Filter	0.011	38	38	0.006	21	21	55.0	1.0	760.584	8.52	28,674	28,674	4.69	15,771	761
49	Every Kilowatt Counts	2007	Final	10	Power Bar with Timer	0.006	72	724	0.005	56	557	77.0	10.0	83.144	0.52	6,020	60,196	0.40	4,635	83
50	Every Kilowatt Counts	2007	Final	11	Lighting Control Device	0.019	72	722	0.010	40	397	55.0	10.0	962.642	17.81	69,503	695,028	9.79	38,227	963
51	Every Kilowatt Counts	2007	Final	12	Outdoor Motion Sensor	0.000	160	1,598	0.000	88	879	55.0	10.0	300.546	0.00	48,027	480,273	0.00	26,415	301
52	Every Kilowatt Counts	2007	Final	13	Dimmer Switch	0.001	24	237	0.000	13	130	55.0	10.0	190.968	0.13	4,526	45,260	0.07	2,489	191
53	Every Kilowatt Counts	2007	Final	14	Programmable Thermostat	0.000	75	1,127	0.000	41	620	55.0	15.0	183.513	0.00	13,782	206,727	0.00	7,580	184
132	Every Kilowatt Counts Power Savings Event	2008	Final	1	Energy Star® Qualified Compact Fluorescent Light Bulbs	0.002	53	424	0.001	28	221	52.3	8.0	9,013.446	19.83	477,352	3,818,817	10.36	249,443	1,995,546
133	Every Kilowatt Counts Power Savings Event	2008	Final	2	Energy Star® Qualified Dimmable CFLs	0.003	98	587	0.001	37	221	37.7	6.0	981.689	3.03	96,005	576,029	1.14	36,166	216,997
134	Every Kilowatt Counts Power Savings Event	2008	Final	3	Energy Star® Qualified Decorative CFLs	0.001	30	122	0.000	12	47	38.6	4.0	15,227.093	14.58	462,563	1,850,254	5.62	178,399	713,596
135	Every Kilowatt Counts Power Savings Event	2008	Final	4	Energy Star® Qualified Compact Fluorescent Floods (Indoor & Outdoor)	0.003	88	613	0.001	33	230	37.5	7.0	4,227.580	11.67	370,417	2,592,920	4.37	138,787	971,510
136	Every Kilowatt Counts Power Savings Event	2008	Final	5	Energy Star® Qualified Light Fixtures	0.004	133	2,136	0.001	45	713	33.4	16.0	6,560.841	27.60	875,720	14,011,528	9.21	292,266	4,676,253
137	Every Kilowatt Counts Power Savings Event	2008	Final	6	T8 Fluorescent Fixtures	0.001	37	595	0.000	12	196	32.8	16.0	1,193.684	1.19	44,405	710,481	0.39	14,586	233,374
138	Every Kilowatt Counts Power Savings Event	2008	Final	7	Lighting Control Devices	0.003	102	1,022	0.001	46	464	45.4	10.0	1,283.104	3.85	131,176	1,311,760	1.75	59,507	595,074
139	Every Kilowatt Counts Power Savings Event	2008	Final	8	Power Bars with Timers	0.004	53	533	0.002	22	217	40.7	10.0	70.383	0.29	3,752	37,517	0.12	1,528	15,285
140	Every Kilowatt Counts Power Savings Event	2008	Final	9	Car block heater timer	0.000	0	0	0.000	0	0	0.0	0.0	0.000	0.00	0	0	0.00	0	0
141	Every Kilowatt Counts Power Savings Event	2008	Final	10	Heavy Duty Timers	0.017	301	3,012	0.006	100	1,002	33.3	10.0	148.501	2.57	44,729	447,285	0.85	14,880	148,804
142	Every Kilowatt Counts Power Savings Event	2008	Final	11	Programmable Thermostats - Baseboard	0.000	64	955	0.000	30	444	46.5	15.0	413.986	0.00	26,354	395,303	0.00	12,257	183,862
143	Every Kilowatt Counts Power Savings Event	2008	Final	12	Air Conditioner/Furnace Filters	0.021	38	38	0.007	13	13	35.1	1.0	389.624	8.18	14,689	14,689	2.87	5,154	5,154
144	Every Kilowatt Counts Power Savings Event	2008	Final	13	Awnings	0.000	0	0	0.000	0	0	0.0	0.0	283.101	0.00	0	0	0.00	0	0
145	Every Kilowatt Counts Power Savings Event	2008	Final	14	Window Films	0.000	0	0	0.000	0	0	0.0	0.0	4,565.879	0.00	0	0	0.00	0	0
146	Every Kilowatt Counts Power Savings Event	2008	Final	15	Electric Water Heater Blankets	0.000	0	0	0.000	0	0	0.0	0.0	139.963	0.00	0	0	0.00	0	0
147	Every Kilowatt Counts Power Savings Event	2008	Final	16	Pipe Wrap	0.003	38	228	0.001	18	107	46.8	6.0	8,408.182	25.22	319,511	1,917,066	11.81	149,605	897,633
148	Every Kilowatt Counts Power Savings Event	2008	Final	17	Low-Flow Toilets	0.000	0	0	0.000	0	0	0.0	0.0	1,099.924	0.00	0	0	0.00	0	0
149	Every Kilowatt Counts Power Savings Event	2008	Final	18	Keep Cool Pilot – Dehumidifier	0.290	500	5,998	0.102	175	2,099	35.0	12.0	2,624	0.76	1,311	15,737	0.27	459	5,508
150	Every Kilowatt Counts Power Savings Event	2008	Final	19	Keep Cool Pilot – Room Air Conditioner	0.142	141	1,266	0.060	59	532	42.0	9.0	2,943	0.42	414	3,727	0.18	174	1,565
151	Every Kilowatt Counts Power Savings Event	2008	Final	20	Rewards for Recycling – Dehumidifier	0.290	500	5,998	0.128	220	2,639	44.0	12.0	78.787	22.85	39,378	472,532	10.05	17,326	207,914
152	Every Kilowatt Counts Power Savings Event	2008	Final	21	Rewards for Recycling – Room Air Conditioner	0.142	141	1,266	0.062	62	557	44.0	9.0	85.152	12.09	11,981	107,828	5.32	5,272	47,444
153	Every Kilowatt Counts Power Savings Event	2008	Final	22	Rewards for Recycling – Halogen Lamp	0.009	275	4,403	0.004	132	2,114	48.0	16.0	67.922	0.61	18,692	299,075	0.29	8,972	143,556
488	Every Kilowatt Counts Power Savings Event	2009	Preliminary	1	Standard CFL (single pack)	0.002	53	424	0.001	40	322	76.0	8.0	298.935	0.49	15,832	126,653	0.37	12,032	96,256
489	Every Kilowatt Counts Power Savings Event	2009	Preliminary	2	Standard CFL (multi (6) pack)	0.008	258	2,065	0.006	196	1,569	76.0	8.0	690.395	5.53	178,205	1,425,639	4.21	135,436	1,083,486
490	Every Kilowatt Counts Power Savings Event	2009	Preliminary	3	Energy Star Specialty CFL	0.002	63	379	0.001	48	288	76.0	6.0	1,879.851	3.68	118,619	711,712	2.80	90,150	540,901
491	Every Kilowatt Counts Power Savings Event	2009	Preliminary	4	Energy Star Light Fixtures	0.004	123	1,966	0.002	68	1,082	55.0	16.0	201.981	0.77	24,823	397,175	0.42	13,653	218,446
492	Every Kilowatt Counts Power Savings Event	2009	Preliminary	5	Energy Star Hard–Wired Indoor Light Fixtures	0.004	123	1,966	0.002	68	1,082	55.0	16.0	218.911	0.84	26,904	430,467	0.46	14,797	236,757
493	Every Kilowatt Counts Power Savings Event	2009	Preliminary	6	Energy Star Ceiling Fans	0.003	90	898	0.002	49	494	55.0	10.0	88.794	0.25	7,976	79,763	0.14	4,387	43,870
494	Every Kilowatt Counts Power Savings Event	2009	Preliminary	7	Weather Stripping (packages)	0.000	2	4	0.000	1	3	70.0	2.0	203.038	0.00	406	812	0.00	284	569
495	Every Kilowatt Counts Power Savings Event	2009	Preliminary	8	Weather Stripping (door kits)	0.000	2	4	0.000	1	1	36.0	2.0	132.073	0.00	264	528	0.00	95	190
496	Every Kilowatt Counts Power Savings Event	2009	Preliminary	9	Pipe Wrap – Purchase of 3	0.003	38	228	0.001	14	82	36.0	6.0	146.859	0.43	5,581	33,484	0.16	2,009	12,054
497	Every Kilowatt Counts Power Savings Event	2009	Preliminary	10	Water Heater Blanket	0.021	270	1,620	0.008	97	583	36.0	6.0	26.000	0.54	7,020	42,119	0.20	2,527	15,163
498	Every Kilowatt Counts Power Savings Event	2009	Preliminary	11	Window Film	0.022	45	450	0.008	16	162	36.0	10.0	24.483	0.54	1,102	11,017	0.19	397	3,966
499	Every Kilowatt Counts Power Savings Event	2009	Preliminary	12	Lighting and Appliance Controls – Unspecified	0.001	72	722	0.001	26	260	36.0	10.0	0.000	0.00	0	0	0.00	0	0
500	Every Kilowatt Counts Power Savings Event	2009	Preliminary	13	Lighting and Appliance Controls – Power Bar with Integrated Timer	0.006	72	724	0.002	26	261	36.0	10.0	43.160	0.27	3,125	31,248	0.10	1,125	11,249
501	Every Kilowatt Counts Power Savings Event	2009	Preliminary	14	Lighting and Appliance Controls – Hard Wired Indoor Timer	0.007	219	2,190	0.002	79	788	36.0	10.0	24.862	0.17	5,445	5			