NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.

d/b/a

LIBERTY UTILITIES

CORE PROGRAMS - 2013 YEAR-END REPORT N.H.P.U.C. Docket No. DE 12-262



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Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities SUMMARY OF 2013 PROGRAM ACTIVITY

The following report presents the results of Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities ("Liberty Utilities" or "Company") residential and commercial and industrial (C&I) energy efficiency programs for calendar year 2013.

Table 1 shows a summary of overall program savings results. In total, the Company served 2,765 participants and saved 1,647,299 Lifetime MMBTUs. Annual MMBTU savings were 115,341 with an average savings per participant per year of 41.71.

Table 2 documents the quantified benefits and costs achieved by program for the residential market. In total, the residential programs generated \$7,528,707 in customer benefits and incurred costs of \$3,365,102, for an overall program benefit cost ratio of 2.10.

Table 3 documents the quantified benefits and costs achieved by program for the commercial and industrial market. In total, the commercial and industrial programs generated \$9,368,911 in customer benefits and incurred costs of \$5,374,111, for an overall program benefit cost ratio of 1.74.

Table 4 documents the MMBTU savings achieved by program for the individual residential and commercial and industrial programs. In summary, the residential program activities resulted in 715,801 in total lifetime MMBTU savings. The commercial and industrial program activities resulted in 931,499 in total lifetime MMBTU savings.

Table 5 documents footnotes for the residential and commercial and industrial program benefit cost ratios and the rate of savings per MMBTU based on the Avoided Energy Supply Costs in New England 2013 report.

Table 6 documents the Company's earned 2013 year-end performance incentive of \$455,050. As specified by the Commission, the performance incentive for 2013 has been documented using assumptions that are consistent with assumptions used to develop program-year goals. Table 6 summarizes the performance incentive calculation by component (C&I and Residential). As specified by the Commission, results for all programs have been included in the performance incentive calculation.

Table 7 documents the planned versus actual benefit cost ratio by sector (Residential and Commercial and Industrial), and for the entire portfolio of energy efficiency programs implemented in 2013.

Table 8 documents the Company's expenses by Program and budget category. Overall, the Company incurred a total of \$4,589,064 of expenses in 2013.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities CORE Energy Efficiency Programs 2013 Year End Report NHPUC Docket No. DE 12-262 Revised as of October 15, 2014

Table 1. Program Savings Summary

Number of Participants served in the annual program year time period	2,765
MMBTU Savings per Participant Per Year	41.71
Total MMBTU Savings Per Year	115,341
Measure Life of Measures Installed in the annual program year time period	14.28
Grand Total MMBTU Savings Benchmark for Performance Incentive	1,647,29
lectric Savings in kWh's resulting from Energy Efficiency Measures Installed in the Prog	gram Year
	gram Year
lectric Savings in kWh's resulting from Energy Efficiency Measures Installed in the Prog Number of Participants served in the annual program year time period kWh Savings per Participant Per Year	gram Year - -
Number of Participants served in the annual program year time period	gram Year - - -
Number of Participants served in the annual program year time period kWh Savings per Participant Per Year	gram Year - - - -

Table 2. Benefit Cost (B/C) Benchmark for Computing Performance Incentive - Residential Programs

Residential Programs	10000	ome Energy Assistance		ENERGY STAR Appliances	100000000000000000000000000000000000000	e Performance NERGY STAR		ENERGY AR Homes	Pr.	esidential Building actices & Demo		Total
Benefits:												
Avoided Generation, Transmission & Distribution Costs for:	-											
Program Participants	\$	2,577,584	\$	1,276,209	\$	3,653,095	\$	21,818	\$		\$	7,528,707
Market effects (e.g., spillover, post-program adoptions)	\$	-	\$		\$	8#3	S	1 2. 1	\$	o. - .:	\$	
Customer Benefits (including O&M)	\$	È	\$		\$	22	S	*	\$		\$	
Quantifiable avoided resource costs (e.g., water, electricity)	\$	•	\$	2	\$		\$	*	\$	-	\$	*
Adder for other non-quantifiable benefits (e.g., environmental and other)	\$	•	\$		\$	(3)	\$		\$		\$	-
Total Benefits	\$	2,577,584	s	1,276,209	\$	3,653,095	S	21,818	S		S	7,528,707
Costs:												
Program costs (e.g. incentives, admin, monitoring, evaluation for:												
Utility Costs (e.g., for admin, monitoring, evaluation, markeing)	\$	1,031,394	\$	673,921	75.1	627,997	\$	31,978	\$	48,384	\$	2,413,674
Program participants (e.g., incremental costs not reimbursed)	\$	-	\$	676,878		274,549	\$		\$	(*)	S	951,427
Market effects (e.g., spillover, post-program adoptions)	\$	-	\$	-	\$	621	\$	120	\$	-		
Customer Costs (including O&M)	\$	~	\$	*	\$		\$:	\$	·*		
Quantifiable additional resource costs (e.g. water, electricity)	\$	7	\$	ā.	\$	100	\$	(5.)	\$			
Total Costs	\$	1,031,394	s	1,350,799	\$	902,546	\$	31,978	\$	48,384	s	3,365,102
Utility Performance Incentive at the Sector Level	_	n/a		n/a		n/a		n/a		n/a	\$	227,527
Total Costs Including Utility Performance Incentives at Sector Level	_				United to						s	3,592,628
Benefit Cost Ratio by Sector (i.e., B/C Benchmark for PI Calc.)		2.50		0.94		4.05		0.68				2.10

Table 3. Benefit Cost (B/C) Benchmark for Computing Performance Incentive - Commercial & Industrial Programs

C&I Programs	Sm	all Business	La	rge Business	С&	I Education	Total
Benefits:	415						
Avoided Generation, Transmission & Distribution Costs for:	•						
Program Participants	\$	4,132,581	\$	5,236,331	\$	-	\$ 9,368,911
Market effects (e.g., spillover, post-program adoptions)	\$	-	\$	•	\$	- 4	\$ +
Customer Benefits (including O&M)	\$		\$	-	\$	-	\$ -
Quantifiable avoided resource costs (e.g., water, electricity)	\$		\$	-	\$	-	\$ -
Adder for other non-quantifiable benefits (e.g., environmental and other)	\$	14	\$	-	\$	2	\$
Total Benefits	S	4,132,581	S	5,236,331	\$	•	\$ 9,368,911
Costs:							
Program costs (e.g. incentives, admin, monitoring, evaluation for:	•						
Utility Costs (e.g., for admin, monitoring, evaluation, markeing	\$	715,318	\$	1,415,520	\$	44,552	\$ 2,175,389
Program participants (e.g., incremental costs not reimbursed)	\$	1,038,211	\$	1,932,987	\$	-	\$ 2,971,198
Market effects (e.g., spillover, post-program adoptions)	\$	-	\$	7	\$	-	
Customer Costs (including O&M)	\$	2	\$	-	\$	2	
Quantifiable additional resource costs (e.g. water, electricity)	\$		\$	¥	\$		
Total Costs	s	1,753,529	s	3,348,507	\$	44,552	\$ 5,146,588
Utility Performance Incentive at the Sector Level		n/a		n/a		n/a	\$ 227,524
Total Costs Including Utility Performance Incentives at Sector Level							\$ 5,374,111
Benefit Cost Ratio by Sector (i.e., B/C Benchmark for Pl Calc.)		2.36		1.56			1.74

Table 4. MMBTU Savings Benchmark for Computing Performance Incentive

Residential Programs	Home Energy Assistance	ENERGY STAR Appliances	Home Performance w/ENERGY STAR	ENERGY STAR Homes	Residential Building Practices & Demo	Total
Gas Savings in MMBTU's from Measures Installed in the Program Year						
Number of Participants	330	1,070	671	2	72	2,073
MMBTU Savings per Participant Per Year	26	8	35	65	-	20
Total MMBTU Savings Per Year	8,636	8,339	23,405	129	·	40,509
Measure Life of Measures Installed During the Program Year	19	19	17	21		18
Grand Total MMBTU Savings Benchmark for Performance Incentive	165,141	159,198	388,817	2,645		715,801

Electric Savings in kWh's from Measures Installed in the Program Year	
Number of Participants	
kWh Savings per Participant	
Total kWh Savings Per Participant Per Year	-
Measure Life of Measures Installed in the annual program year time period	
Grand Total kWh Savings Benchmark for Performance Incentive	

C&1 Programs	Small Business	Large Business	C&I Education	Total
Number of Participants	453	239	-	692
MMBTU Savings per Participant Per Year	52	215	-	108
Total MMBTU Savings Per Year	23,365	51,466		74,831
Measure Life of Measures Installed During the Program Year	16	11		12
Grand Total MMBTU Savings Benchmark for Performance Incentive	374,206	557,293		931,499

Table 5. Footnotes for Benefit Cost Ratio

Residential Programs	1000	ome Energy Assistance	ENERGY STAR Appliances	- 500	Home erformance /ENERGY STAR	1	ENERGY FAR Homes		Residential Building Practices & Demo	Total
Number of Participants*		330	1,070	111111	671		2		(4)	2,073
MMBTU Savings per Participant Per Year**		26	8		35		65		22	20
Total MMBTU Savings Per Year		8,636	8,339		23,405		129		•	40,509
Number of Years in the Measure Life**		19	19		17		21			18
Grand Total MMBTU Savings Benchmark for Performance Incentive		165,141	159,198		388,817		2,645		-	715,801
Lifetime Therm Savings		1,651,410	1,591,980		3,888,170		26,450		-	7,158,010
Rate of Savings per MMBTU ***	\$	8.91	\$ 8.91	\$	8.91	\$	8.91	S		\$ 8.91
Grand Total Dollar Savings	\$	1,471,406	\$ 1,418,454	\$	3,464,359	\$	23,567	\$		\$ 6,377,787

&I Programs	Sm	all Business	Lai	rge Business	C&	I Education		Total
Number of Participants*		453		239		¥.	150	692
MMBTU Savings per Participant Per Year**		52		215		-		108
Total MMBTU Savings Per Year		23,365		51,466		+		74,831
Number of Years in the Measure Life**		16		11		-		12
Grand Total MMBTU Savings Benchmark for Performance Incentive		374,206		557,293		•		931,499
Lifetime Therm Savings		3,742,060		5,572,930		+		9,314,990
Rate of Savings per MMBTU ***	\$	7.17	\$	7.17	\$	-	\$	7.17
Grand Total Dollar Savings	\$	2,683,057	\$	3,995,791	\$		\$	6,678,848

^{*} eTrack (Liberty Utilities Energy Efficiency Program Tracking System)

^{***} Source: Avoided Energy Supply Costs in New England: 2013 Report, Synapse Energy Economics, Inc. (Cambridge, MA). pp. 1-17

Residential Programs	Home Energy Assistance	ENERGY STAR appliances	0000	Home erformance ENERGY STAR		VERGY R Homes	E	esidential Building actices & Demo		Total
Number of Participants*	330	1,070		671	17	2	072	(4)	=/10	2,073
Participant Incremental Cost	\$ -	\$ 676,878	\$	274,549	\$		\$	-	\$	951,427
Program Participant Cost	\$ -	\$ 633	\$	409	\$		\$	1983	\$	459

&I Programs	Small Busi	iess	Lar	ge Business	C&I I	Education	Total
Number of Participants*	**************************************	153		239		- 2	692
Participant Incremental Cost	\$ 1,038,	211	\$	1,932,987	\$		\$ 2,971,198
Program Participant Cost	\$ 2,	292	\$	8,088	\$	+	\$ 4,294

^{**} The values are variable for program year measurement purposes and based upon the B/C model assumptions.

Table 6. Performance Incentive Calculation - 2013 Updated

Commercial/Industrial Incentive	Planned	<u>Actual</u>
1. Benefit/Cost Ratio	1.44	1.74
2. Threshold Benefit / Cost Ratio ¹	1.00	
3. Lifetime MMBTU Savings	661,662	931,499
4. Threshold Lifetime MMBTU Savings (65%) ²	430,080	
5. Budget / Actual Spend	\$2,310,000	\$2,175,389
6. Benefit / Cost Percentage of Budget	4.00%	
7. Lifetime MMBTU Percentage of Budget	4.00%	
8. C/I Incentive	\$184,800	\$227,524
9. Cap	\$277,200	\$277,200
Residential Incentive		
10. Benefit / Cost Ratio	1.53	2.10
11. Threshold Benefit / Cost Ratio	1.00	
12. Lifetime MMBTU Savings	724,654	715,800
13. Threshold Lifetime MMBTU Savings (65%) ²	471.025	
14. Budget / Actual Spend	\$2,559,576	\$2,413,674
15. Benefit / Cost Percentage of Budget	4.00%	
16. Lifetime MMBTU Percentage of Budget	4.00%	
17. Residential Incentive	\$204,766	\$227,527
18. Cap	\$307,149	\$307,149
19. TOTAL INCENTIVE	\$389,566	\$455,050

Notes

- 1. Actual Benefit / Cost Ratio for each sector must be greater than or equal to 1.0.
- 2. Actual Lifetime MMBTU Savings for each sector must be greater than or equal to 65% of projected savings.

Table 7. Planned Versus Actual Benefit / Cost Ratio by Sector - 2013

Commercial & Industrial:	<u>Planned</u>	Actual
1. Benefits (Value) From Eligible Programs	\$5,455,428	\$9,368,911
2. Implementation Expenses	\$2,310,000	\$2,175,389
3. Customer Contribution	\$1,282,033	\$2,971,198
4. Performance Incentive	\$184,800	\$227,524
5. Total Costs Including Performance Incentive	\$3,776,833	\$5,374,111
6. Benefit/Cost Ratio - C&I Sector	1.52	1.82
7. Benefit/Cost Ratio including PI in cost	1.44	1.74
Residential:		
8. Benefits (Value) From Eligible Programs	\$6,205,623	\$7,528,707
9. Implementation Expenses	\$2,559,576	\$2,413,674
10. Customer Contribution	\$1,289,227	\$951,427
11. Performance Incentive	\$204,766	\$227,527
12. Total Costs Including Performance Incentive	\$4,053,569	\$3,592,628
13. Benefit/Cost Ratio - Residential Sector	1.61	2.24
14. Benefit/Cost Ratio including PI in cost	1.53	2.10

Table 8. Program Expenditures by Category - 2013 Actual - Updated

Program		Evaluation		External Administration	Internal Administration		Internal Implementation		Marketing		Rebates- Services			Total	
Residential Programs															
ENERGY STAR Appliances	\$	18,534			\$	31,908	\$	18,582	\$	4,928	\$	599,969	S	673,921	
ENERGY STAR Homes	\$	2,166			\$	7,333	\$	11,236	\$	5,923	\$	5,319	S	31,978	
Home Energy Assistance	\$	21,359			\$	28,928	\$	38,484	\$	1,960	\$	940,662	S	1,031,394	
Home Performance with ENERGY STAR	\$	18,904			\$	70,799	\$	33,011	\$	18,109	\$	487,175	S	627,997	
Residential Building Practices & Demonstration	\$	15,040			\$	1,398			\$	194	\$	31,753	S	48,384	
Subtotal - Residential	\$	76,003	\$	-	S	140,366	S	101,313	\$	31,114	\$	2,064,878	S	2,413,674	
Commercial/Industrial Programs															
C&I Education	\$	508			\$	615	\$	3,069	\$	24,295	\$	16,065	S	44,552	
Large Business Energy Solutions	\$	42,568			\$	65,345	\$	45,572	\$	79,865	\$	1,182,170	S	1,415,520	
Small Business Energy Solutions	\$	28,153			\$	60,432	\$	50,639	\$	34,206	\$	541,887	S	715,318	
Subtotal - C&I	S	71,230	\$		\$	126,391	S	99,280	\$	138,367	\$	1,740,122	S	2,175,389	
Total - All	S	147,233	s	-	s	266,757	s	200,593	\$	169,481	\$	3,805,000	s	4,589,064	