UPDATED

2012 CORE New Hampshire Energy Efficiency Programs (Electric and Gas)

Granite State Electric Company d/b/a National Grid
New Hampshire Electric Cooperative, Inc.
Public Service Company of New Hampshire
Unitil Energy Systems, Inc.
EnergyNorth Natural Gas, Inc. d/b/a National Grid NH, Inc.
Northern Utilities, Inc.

NHPUC Docket No. DE 10-188

SEPTEMBER 30, 2011 (REVISED 12/15/2011)



I. PROGRAM CHANGES AND UPDATES FOR 2012

On August 2, 2010, the New Hampshire Electric and Gas Utilities submitted their plans for the 2011-2012 New Hampshire Energy Efficiency Programs for the period January 1, 2011, through December 31, 2012. The programs were approved as modified by a Settlement Agreement in Order No. 25,189 on December 30, 2010. In accordance with that Settlement Agreement, the Utilities are filing these proposed program changes for 2012. Those sections which are contained in the original electric and gas plans for the 2011-2012 program years that are not updated below remain in their original form as approved by the Commission.

This document describes the proposed changes for 2012 which include:

- ⇒ Budget Changes
- ⇒ CORE Program Changes
- ⇒ Utility Specific Program Changes
- ⇒ Monitoring and Evaluation Updates
- ⇒ Shareholder Incentive Updates

The Utilities stand ready to work with Staff and interested Parties to further understanding of these changes and to provide New Hampshire citizens with CORE Program improvements in 2012.

II. BUDGET CHANGES

National Grid: No changes to 2012 overall budget.

NHEC: Overall budget increased by \$200k and funded by a prior year carryover.

PSNH: Included in the 2012 budget is funding for a customer engagement pilot program. Residential and education program budgets were reduced (not HEA) to fund this program. This new program will explore the possibility of replacing residential lighting savings likely to be lost as a result of the new standards established by the Energy Independence & Security Act of 2007.

UES: UES estimated the 2011 year-end SBC fund balances by sector and carried them into 2012. Actuals will be trued up and the final carry-forward will be reported in the Company's 2011 Performance Incentive to be filed in June 2012.

National Grid NH: National Grid NH is proposing to increase its gas Low Income program budget by \$100,000 through reallocation from the C&I gas programs. The reallocation will more effectively align the gas low income program budget with National Grid NH's electric income eligible weatherization budget.

Northern Utilities: Northern will be implementing a residential ENERGY STAR® Homes program.

III. CORE PROGRAM CHANGES

A. Residential Program Changes

1. ENERGY STAR® Homes Program¹

EPA's implementation of ENERGY STAR HOMES Version 3.0 was delayed from January 1, 2012 until July 1, 2012. The Utilities have been and will continue working with HERS Raters and Builders to assist in the transition to this new version.

2. NH Home Performance with ENERGY STAR® Program²

In 2012 PSNH and UES propose to implement a full scale fuel-neutral program as described in their September 1, 2011 filing with the Commission. National Grid and NHEC will continue serving electric heat customers through 2012, but plan to transition their program to be fuel neutral after electrically heated homes have been served. National Grid NH and Northern plan to continue serving gas customers.

As a full scale program, the Utilities have included all of the costs and the savings of this program in their updated 2012 budgets and reflect the inclusion of the Performance Incentive calculation for all of the fuel neutral savings for 2012. Specifically, the Performance Incentive would apply to the entire program as is the case for other fuel neutral programs such as Home Energy Assistance and ENERGY STAR® Homes.

The Utilities will modify the Home Heating Index on the NHSaves web page to direct customers³ who do not qualify for this program to other resources for energy audits and/or installation services.

The Utilities would note that the federal administration of the Home Performance with ENERGY STAR program is moving from EPA to U.S. Department of Energy (DOE). The Utilities are aware that DOE is considering some changes to this program and will continue working with DOE during this transition.

There is one minor change to the program for the Gas Utilities. Northern will offer a 50% maximum rebate with a cap of \$4,000 per unit to individually metered customers in multi-family complexes with 5 or more units. The rebate will be negotiated based on project savings and the availability of funding. National Grid NH will offer the same rebates with the same program parameters through its Energy Audit with Home Performance program. This change will allow both companies to serve these customers in the same manner.

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¹ New Home Construction with ENERGY STAR® Program (Gas)

² Home Performance with ENERGY STAR® Program, Energy Audit with Home Performance and Weatherization

³ Hereinafter the word "customer" will be understood to mean both customer and NHEC members.

3. ENERGY STAR® Lighting Program

The Utilities are expanding rebates to include a \$5 incentive for customers purchasing ENERGY STAR LED bulbs from the catalog and at retail stores. We expect more LEDs to earn the ENERGY STAR certification and expect prices will start coming down from the current \$15 - \$70 price range.

Also, the Energy Independence and Security Act (EISA) of 2007 sets energy efficiency standards for light bulbs with the first phase going into effect January 2012. "Under the new law, screw-based light bulbs will use fewer watts for a similar lumen output. The standards are technology neutral, which means any type of bulb can be sold as long as it meets the efficiency requirements. Common household light bulbs that traditionally use between 40 and 100 watts will use at least 27% less energy by 2014. The law applies to the manufacturer date and will begin affecting 100-watt bulbs in January 2012 and end with 40-watt bulbs in January 2014. California began the transition one year earlier."

The law is being phased in over the next three years as follows:

Today's Bulbs	After the Standard	Standard Effective Date
100 watt	≤ 72 watts	January 1, 2012
75 watt	≤ 53 watts	January 1, 2013
60 watt	≤ 43 watts	January 1, 2014
40 watt	≤ 29 watts	January 1, 2014

This new EISA law is intended to change the current lighting stock in people's homes over time as they replace their bulbs. The Utilities have taken a conservative approach to the energy savings calculations, reducing the lighting savings by nearly 1/3, to be sure to capture the changes to the law while also including energy savings that are acceptable to ISO-NE as part of its Forward Capacity Market requirements.

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15 December 2011

⁴ http://www.energystar.gov/ia/products/lighting/cfls/downloads/EISA_Backgrounder_FINAL_4-11_EPA.pdf

4. Residential High-Efficiency Heating, Water Heating and Controls Program (Gas Only)

Based on year-to-date 2011 customer activity and to align with modifications to the Gas Networks® equipment model standards in other New England States, the Gas Utilities are including the following program incentives in 2012:

Product	Rating	2012 Incentive			
High Efficiency Natural Gas Warm Air Furnaces	96% AFUE or greater w/Electronic Commutated Motor	\$800			
High Efficiency Natural	85% AFUE or greater	n/a			
Gas Boiler	90% AFUE or greater	\$1,000			
	96% AFUE or greater	\$1,500			
Combined High Efficiency Boiler & Water Heating Unit	Condensing Boiler with On-Demand Domestic Hot Water, AFUE of 85% or greater	\$1,000			
·	Condensing Boiler with On-Demand Domestic Hot Water, AFUE of 90% or greater	\$1,600			
High Efficiency Indirect Water Heater	Attached to a natural gas boiler	\$400			
Condensing Gas Water Heater	94% thermal efficiency or greater (75 to 300 MBH)	\$500			
On-Demand, Tankless Water Heater	.82 Energy Factor (EF) or greater with electronic ignition	\$500			
	.95 Energy Factor (EF) or greater with electronic ignition	\$800			
High Efficiency Storage Water Heater	.67 Energy Factor	\$100			
Heat Recovery Ventilator	Factory-assembled, packaged unit including fans or blowers that transfers heat between two isolated airstreams. Excludes portable units.	\$500			
After-Market Boiler Reset Controls	Must be connected to natural gas boiler	\$200			
Programmable	ENERGY STAR® labeled or 7-day	\$25 (up to 2			
Thermostat	programmable	per household)			

The Gas Utilities may change rebates and add or remove measures as appropriate.

B. Low Income Weatherization

1. Home Energy Assistance Program⁵

The Electric and Gas Utilities continue working collaboratively with the Community Action Agencies to deliver this program. Collaboration with WAP/ARRA funds is expected to continue into 2012. Program administrators will continue to work with NH OEP on WAP/HEA coordination.

The Gas Utilities plan to transition their Low Income program to follow the NH CORE HEA model for income eligibility, eligible measures, etc.

The Utilities propose to complete 948 HEA projects in 2012. Attachment A to this document provides a detailed breakdown by utility and county for each quarter of 2012.

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⁵ Residential Gas Income-Eligible Program (National Grid NH, Northern)

C. Commercial & Industrial Program Changes⁶

1. New Equipment and Construction Program

This program is premised on New Hampshire's adoption of the IECC 2009 energy code. For example, HVAC rebates have been modified in 2011 and 2012 to provide incentives on HVAC systems that exceed the energy code. New prescriptive rebates have been added for LED fixtures and lamps.

Based on year-to-date 2011 customer activity and to align with modifications to the Gas Networks equipment model standards in other New England States, the Gas Utilities are including the following program incentives in 2012:

Measure	Rating	Rebate *
Heating Equipment		
Boiler Reset Controls (retrofit only)		\$225
Condensing boiler	<= 300 mbh>90% AFUE	\$1,000
Condensing boiler	<= 300 mbh>96% AFUE	\$1,500
Condensing boiler	301-499 mbh	\$2,000
Condensing boiler	500-999 mbh	\$4,000
Condensing boiler	1000-1700 mbh	\$7,500
Condensing boiler	1701+ mbh	\$10,000
Integrated water heater/condensing boiler	(0.9 EF, 0.9 AFUE)	\$1,200
Furnace	95+ AFUE (<150) w/ECM Motor	\$500
Furnace	96+ AFUE (<150) w/ECM Motor	\$800
Condensing Unit Heaters	, ,	\$750
Infrared		\$750
Programmable Thermostat		\$25
Steam Traps (Notify Utility if 10 or more		
stream traps will be installed)		\$25
stream traps will be installed) Water Heating Equipment		\$25
		\$25 \$400
Water Heating Equipment	(EF 0.82)	
Water Heating Equipment Indirect Water Heater	(EF 0.82) (EF 0.95)	\$400
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater		\$400 \$500
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater On-Demand Tankless Water Heater	(EF 0.95)	\$400 \$500 \$800
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater On-Demand Tankless Water Heater Free-Standing Water Heater	(EF 0.95) (EF 0.67)	\$400 \$500 \$800 \$100
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater On-Demand Tankless Water Heater Free-Standing Water Heater Condensing Stand-Alone Water Heater	(EF 0.95) (EF 0.67)	\$400 \$500 \$800 \$100
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater On-Demand Tankless Water Heater Free-Standing Water Heater Condensing Stand-Alone Water Heater Kitchen Equipment	(EF 0.95) (EF 0.67)	\$400 \$500 \$800 \$100 \$500
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater On-Demand Tankless Water Heater Free-Standing Water Heater Condensing Stand-Alone Water Heater Kitchen Equipment Pre-Rinse Spray Valve	(EF 0.95) (EF 0.67)	\$400 \$500 \$800 \$100 \$500
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater On-Demand Tankless Water Heater Free-Standing Water Heater Condensing Stand-Alone Water Heater Kitchen Equipment Pre-Rinse Spray Valve Fryers	(EF 0.95) (EF 0.67) (75-300 mbh)	\$400 \$500 \$800 \$100 \$500 \$25 \$1,000
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater On-Demand Tankless Water Heater Free-Standing Water Heater Condensing Stand-Alone Water Heater Kitchen Equipment Pre-Rinse Spray Valve Fryers High Efficiency Gas Combination Oven High Efficiency Gas Convection Oven	(EF 0.95) (EF 0.67) (75-300 mbh) (>=40% efficiency)	\$400 \$500 \$800 \$100 \$500 \$25 \$1,000
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater On-Demand Tankless Water Heater Free-Standing Water Heater Condensing Stand-Alone Water Heater Kitchen Equipment Pre-Rinse Spray Valve Fryers High Efficiency Gas Combination Oven High Efficiency Gas Convection Oven High Efficiency Gas Conveyer Oven	(EF 0.95) (EF 0.67) (75-300 mbh) (>=40% efficiency) (>=40% efficiency)	\$400 \$500 \$800 \$100 \$500 \$25 \$1,000 \$1,000
Water Heating Equipment Indirect Water Heater On-Demand Tankless Water Heater On-Demand Tankless Water Heater Free-Standing Water Heater Condensing Stand-Alone Water Heater Kitchen Equipment Pre-Rinse Spray Valve Fryers High Efficiency Gas Combination Oven	(EF 0.95) (EF 0.67) (75-300 mbh) (>=40% efficiency) (>=40% efficiency)	\$400 \$500 \$800 \$100 \$500 \$25 \$1,000 \$1,000 \$1,000

appropriate.

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⁶ National Grid and UES are individually seeking regulatory approval to change their RGGI on-bill-financing programs from serving municipal customers only to serving all C&I customers.

2. Large C&I Retrofit Program

Prescriptive LED rebates have been added to encourage this new technology, as long as the LEDs are either ENERGY STAR certified or meet the New England Design Lights Consortium's testing specifications. The Utilities are also watching the price of fluorescent products⁷ due to the limited availability and steep cost increases of phosphors – the main component in fluorescent products. To date, we have not made any changes to incentives but will continue watching to determine the impact this has on the program.

3. Small Business Energy Solutions Program

National Grid and UES project financing will transition to RGGI financing upon Commission approval of updated tariffs.

4. Educational Programs

The Utilities are testing out adding a new program called "Lights for Learning" to compliment the Energy Education for Students programs. Lights for LearningTM is an education-based outreach program presented in the classroom or assembly style. Following the energy education phase, students may participate in a fund-raising component that promotes the sale and use of low-cost, energy efficient compact fluorescent light bulbs (CFLs). The Program helps children learn about the value of conservation and energy efficiency. It also leads to an optional fund raising activity to benefit school projects while encouraging participants and their communities to become more energy conscious.

The main objective for the Lights for Learning program is to educate children about energy efficiency, conservation and reducing carbon dioxide emissions and to understand the value of ENERGY STAR. Children then educate their family and friends about the benefits of energy efficiency while raising funds for school projects. It's a different twist when kids tell parents to "please shut off the lights".

⁷ http://sylvania-lamps.com/index.php?option=com_news&view=detail&n_id=10&Itemid=22&lang=en

IV. Utility Specific Program Changes

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

ENERGY STAR® Homes Program Enhancement: Geothermal and Air Source HP Option

PSNH plans to reduce the cap on this program from \$7,500 per home to \$4,500 per home. This is partially due to the increase in demand for this program and in recognition of the 30% federal tax credit that is available through December 31, 2016.

Customer Engagement Pilot Program (New)

PSNH proposes to implement a customer engagement education pilot program for up to 10% of its customers. This program is designed to help customers reduce their energy use and produce verifiable energy savings. Program elements include: personalized energy usage information and suggestions for improving efficiency, a comprehensive website with targeted feedback on bill savings, tailored incentives for customers who are saving energy, and opportunities for interested customers to collaborate with others within their community or organization to save energy.

V. MONITORING AND EVALUATION UPDATES

A settlement agreement in 2006 approved by the New Hampshire Public Utilities Commission on March 17, 2006 (Order No. 24,599 in DE 05-157) transferred responsibility for monitoring and evaluation efforts from the CORE Utilities to Commission Staff. Under that agreement, the Commission receives input and advice from the Utilities on monitoring and evaluation activities.

In 2012 no changes are anticipated regarding the responsibilities of the parties. Further, funding for Monitoring and Evaluation is proposed to remain at approximately five per cent of the annual program budgets. Specific Monitoring and Evaluation proposals for the coming year include::

- Evaluation Planning (plan to issue an RFP in Q4 2011 for a Multi-Year M&E Study)
- Monitoring & Evaluation of New Hampshire CORE Energy Efficiency Programs (plan to initiate the C&I New Equipment & Construction Impact Evaluation in Q4 2011 to be completed in 2012)
- Regional Measurement and Verification Projects
- Regional Avoided Energy Supply Cost Studies
- Miscellaneous Research
- CORE EE Program Tracking and Reporting

As required by ISO-NE for participation in the Forward Capacity Market, measurement and verification (M&V) will be used to evaluate the impact of efficiency measures during system peak hours and thus the capacity value that will be used in determining any applicable payments. As currently drafted, state utility commissions are responsible for approving M&V plans for efficiency measures installed through programs under their jurisdiction. The Utilities will work with the Staff and other interested parties to ensure that the electric programs' M&E efforts evolve in such a way that they are in alignment with ISO-NE M&V requirements in order to minimize expense and possible duplication of effort.

The Gas Utilities conduct their own Monitoring and Evaluation and will work collaboratively with the Electric Utilities as appropriate.

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VI. SHAREHOLDER INCENTIVE UPDATES

For 2012 the Utilities are not proposing any changes to the methodology used to calculate the shareholder incentive. However, the Utilities do recommend that avoided costs be updated to reflect the findings from the 2011 Avoided Energy Supply Costs in New England⁸.

While no changes are being proposed at this time, the Settlement Agreement reached in this docket last December called for the Utilities to continue to meet with Staff and interested Parties to examine the design of the performance incentive and to consider whether the performance incentive could be better aligned with energy efficiency goals. At the time of this filing the final report detailing the results of this investigation had not yet been released. Furthermore, the independent study of energy efficiency and sustainable energy commissioned by the NHPUC and conducted by Vermont Energy Investment Corporation, is expected to offer suggestions for improving the shareholder incentive. However, this study too has yet to be released.

The Utilities believe that these studies might provide the basis for additional discussions of any recommendations to change the shareholder incentive. Accordingly, the Utilities are not proposing any changes until such time as these studies are finalized and all interested parties have had an opportunity to review and evaluate the studies' recommendations.

National Grid NH: In response to the PUC Staff's question regarding how National Grid NH would modify the performance incentive calculation with respect to any carryover of program funds from 2010 to 2011, National Grid NH notes that the performance incentive for each year should be calculated in accordance with the rules in effect for that year. Thus, the performance incentive for 2010 has been calculated according to the rules in effect in 2010. It should be noted that, because National Grid NH did not achieve its therm savings target for its commercial and industrial program in 2010, it did not collect any performance incentive for the commercial and industrial savings component share of the incentive calculation and the Company did not collect the maximum allowable performance incentive for that year. In other words, the Company did not earn an incentive on funds that carried over from a prior period.

National Grid NH agrees with the PUC that unspent funds that are carried forward should not receive a second performance incentive in the year to which the funds have been carried over. This is an issue that is specifically addressed in Commission Order No. 25,189 at page 23 issued in DE 10-188. Since a performance incentive has already been earned by National Grid NH on the \$380,888 from the 2010 residential program that it carried forward to 2011, National Grid NH will not seek to earn any performance incentive on those funds in 2011. With respect to unspent funds in the amount of \$1,343,234 from National Grid NH's 2010 commercial and industrial program, National Grid NH is currently discussing with various stakeholders whether or not those funds should be carried forward or returned to customers. If they are carried forward, the Company does not intend to seek to earn a second performance incentive on these funds. If these funds are returned to customers, then no adjustment will be required.

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⁸ Avoided Energy Supply Costs in New England, August 2011.

ATTACHMENT A: CORE/WXN COLLABORATION IMPLEMENTATION PLAN

2012 HEA Quarterly Production Schedule

		1st. Qtr.	2nd. Qtr.	3rd. Qtr.	4th. Qtr.
Utility	Total Jobs	21%	34%	29%	16%
Unitil	73	18	25	21	9
NGRID	54	11	18	17	8
NHEC	61	11	16	20	14
PSNH	760	159	262	220	119
TOTAL	948	199	321	278	150
Year-to-date TOTAL	L	199	520	798	948

2012 HEA Job Distribution By County and By Utility

	Ur	nitil	Natio	nalgrid	NF	IEC	PS	NH	To	tals	Grand
BY COUNTY	Shell	Baseload	Total								
	Α	В	Α	В	Α	В	Α	В	Α	В	
Belknap					1	8	30	58	31	66	97
Carroll					1	8	25	30	26	38	64
Cheshire			8	3			9	7	17	10	27
Coos					1	2	23	31	24	33	57
Grafton			14	3	7	15	12	20	33	38	71
Hillsborough			7	1			100	190	107	191	298
Merrimack	22	25			1	5	30	51	53	81	134
Rockingham	18	8	8	1	1	4	45	20	72	33	105
Strafford					0	0	25	38	25	38	63
Sullivan			7	2	1	6	9	7	17	15	32
•											
Program Totals	40	33	44	10	13	48	308	452	405	543	
Grand Totals	7	73	54		61		7	60	9	948	

A = Shell job - where Utility pays for conservation measures, ie wall insulation, air sealing, baseload etc. and DOE (or other programs) pays heating system, repairs (See Section on Project Funding)

Note: Quarterly numbers are benchmarks and not meant to be used to evaluate production on a monthly basis.

B =Baseload job - where Utility pays for baseload measures and DOE (or other programs) pays for non-baseload conservation measures, ie: wall insulation, air sealing, etc., H&S and repairs (See Section on Project Funding)

ATTACHMENT C: AVOIDED COSTS (UPDATED)

Summary of Avoided Electric Costs

In accordance with Commission Order No. 23,850, in DE 01-057, dated November 29, 2001, the NH Electric Utilities have based their avoided costs on the 2011 *Avoided-Energy-Supply Costs in New England:* 2011 Report ("2011 AESC"). Use of common avoided costs by the Utilities ensures that all New Hampshire customers will have access to the same programs and services.

The present value of avoided costs over the life of program measures was calculated using a discount rate of 3.25% and a general inflation rate of 2.05%. The use of the 15% adder to represent non-quantified benefits – including environmental and other benefits as recommended by the Energy Efficiency Working Group, originally authorized by the NHPUC in DR 96-150, Order No. 23,574, dated November 1, 2000, has been discontinued because the 2011 AESC avoided costs include market-based price proxies for power plant emissions of NOx, SO₂, Mercury and CO₂.

The 2011 AESC avoided costs also include a 9% generic wholesale risk premium adder to account for the expected differential between retail and wholesale market prices. In recognition of diversity among states and Utilities in energy service procurement and retail pricing policies, the contractor provided the sponsors the option to remove the adder from the avoided cost data. PSNH and NHEC have concluded that the 2011 AESC forecasted wholesale prices of energy and capacity represent a better approximation to the cost of energy service avoided by their retail customers than the prices which include a 9% increase to the wholesale prices.

Comparison of 2011 AESC and 2009 AESC Results

The differences between the 2011 and 2009 avoided costs are summarized as follows:

- 1. The 2011 New Hampshire 15-year levelized weighted average avoided electric energy costs are 15.7% lower than the 2009 results.
- 2. The 2011 New Hampshire 15-year levelized avoided electric capacity costs are 91% higher than the 2009 results.
- 3. The 2011 New Hampshire 15-year levelized average avoided retail gas costs are 30% lower than the 2009 results.
- 4. The 2011 New Hampshire 15-year levelized avoided residential oil costs are 9.1% higher than the 2009 results.

Avoided Transmission and Distribution Costs

In accordance with Commission Order No. 23,850, in DE 01-057, dated November 29, 2001, the NH Electric Utilities have based their avoided transmission and distribution costs on the weighted average of NH utility costs and have escalated them for inflation and put them in 2011 dollars. Use of common avoided costs by the Utilities ensures that all New Hampshire customers will have access to the same programs and services.

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The following table also includes an adjustment to reduce the energy and capacity line loss multipliers by the estimated losses that are accounted for in the 2011 forecast of energy and capacity prices.

Marginal T&D Costs and Line Loss Factors (\$2011)													
	Line Loss Multipliers												
	MDC (\$/k	:W-yr)	MTC	<u>Transmission</u>	Summer	Winter	On-Peak	Off-Peak					
	Res.(1)	<u>C&I(2)</u>	(\$/kW-yr)	<u>Capacity</u>	Capacity	Capacity	Energy	Energy					
Granite State	\$121.14	\$88.16	\$50.65	1.1220	1.1500	1.1350	1.0630	1.0890					
PSNH	\$31.37	\$31.37	\$1.70	1.0000	1.0820	1.0820	1.0820	1.0840					
Unitil	\$73.03	\$73.03	\$29.26	1.0000	1.1217	1.1217	1.1217	1.0152					
NHEC	\$106.93	\$106.93	\$87.88	1.0000	1.0917	1.0917	1.0917	1.0917					
MWh Sales to Ultimate Customers in 2010													
Granite State	604,429	5.80%											
PSNH	7,860,683	75.39%											
Unitil	1,223,100	11.73%											
NHEC	739,137	7.09%											
Total	10,427,349	100.00%											
Weighted Avera	age Marginal T	&D Costs a	ind Line Los	ss Factors									
(Energy Line Lo					nsmission l	osses.)							
	•		,			ss Multipl	iers						
	MDC (\$/k	:W-yr)	MTC	Transmission	Summer	Winter	On-Peak	Off-Peak					
	Res.(1)	C&I(2)	(\$/kW-yr)	Capacity	Capacity	Capacity	Energy	<u>Energy</u>					
2011\$	\$46.82	\$44.90	\$13.88	1.007	1.071	1.070	1.019	1.011					

Revised 12-2-2011

Summary of Avoided Natural Gas Costs

Avoided natural gas costs have decreased by approximately 35% making projects less cost effective.

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Program Cost-Effectiveness - 2012 PLAN

				Present V	/alu	е								
	Total Resource Benefit/Cost		Benefit		ility Costs		stomer Costs		reholder centive	Annual MWh	Lifetime MWh	Winter kW	Summer kW	Number of Customers
	Ratio		(\$000)	(\$000)			(\$000)		\$000)	Savings	Savings	Savings		Served
Residential Programs	Hatio		(4000)		(4000)		(4000)		7000	5411165	ourgo	ourgo	ou v go	30.704
ENERGY STAR Homes	4.37	\$	503.8	\$	104.6	\$	10.7			28	340	7	8	25
NH Home Performance with ENERGY STA	2.46	\$	367.5	\$	141.2	\$	7.9			332	4,622	30	15	145
ENERGY STAR Lighting *1	1.37	\$	165.2	\$	80.9	\$	39.6			495	2,519	147	39	14,507
ENERGY STAR Appliances	1.90	\$	250.5	\$	80.5	\$	51.3			124	1,260	17	18	875
Home Energy Assistance	2.23	\$	495.5	\$	222.0	\$	-			88	1,324	16	9	54
	2.41													
Subtotal Residential	2.26	\$	1,782.4	\$	629.3	\$	109.6	\$	50.3	1,068	10,065	218	89	15,606
Commercial/Industrial Programs														
New Construction / Major Renovation	2.66	\$	849.8	\$	250.0	\$	70.0			592	9,105	102	143	13
Large C&I Retrofit	3.32	\$	3,315.9	\$	405.6	Ś	592.8			3,041	39,537	385	528	26
Small C&I Retrofit	2.01	\$	690.3	\$	216.1	\$	127.1			713	7,843	92	164	33
	2.92	7		т.		*					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Subtotal C&I	2.80	\$	4,855.9	\$	871.7	\$	789.9	\$	69.7	4,347	56,484	579	835	72
Total	2.63	\$	6,638.3	\$	1,501.0	\$	899.5	\$	120.1	5,414	66,549	797	924	15,678

Note 1: National Grid plan estimates number of products rebated.

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Present Value Benefits - 2012 PLAN

			CAF	PACITY			ENER	GY		
	Total Benefits	Summer	Winter				Winter Off	Summer	Summer Off	Non Electric
	(\$000)	Generation	Generation	Transmission	Distribution	Winter Peak	Peak	Peak	Peak	Resource
Residential Programs										
ENERGY STAR Homes	\$504	\$11	\$0	\$2	\$7	\$6	\$8	\$4	\$4	\$462
Home Performance w/Energy Star	\$367	\$11	\$0	\$3	\$9	\$87	\$113	\$45	\$55	\$46
ENERGY STAR Lighting *1	\$165	\$7	\$0	\$3	\$9	\$42	\$55	\$22	\$27	\$0
ENERGY STAR Appliances	\$250	\$7	\$0	\$2	\$8	\$22	\$29	\$12	\$14	\$155
Home Energy Assistance	\$496	\$8	\$0	\$2	\$6	\$24	\$32	\$14	\$16	\$394
Subtotal Residential	\$1,782	\$44	\$0	\$12	\$38	\$182	\$236	\$97	\$116	\$1,057
Commercial/Industrial Programs										
New Construction / Major Renovation	\$850	\$117	\$0	\$28	\$93	\$267	\$133	\$145	\$65	\$0
Large C&I Retrofit	\$3,316	\$329	\$0	\$91	\$301	\$1,115	\$587	\$607	\$286	\$0
Small C&I Retrofit	\$690	\$73	\$0	\$24	\$80	\$263	\$72	\$144	\$35	\$0
Subtotal C&I	\$4,856	\$519	\$0	\$143	\$474	\$1,646	\$792	\$896	\$386	\$0
Total	\$6,638	\$563	\$0	\$155	\$513	\$1,828	\$1,028	\$993	\$502	\$1,057

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Shareholder Incentive Calculation 2012

	<u>Planned</u>	<u>Actual</u>
Commercial/Industrial Incentive		
1. Benefit/Cost Ratio	2.80	
2. Threshold Benefit / Cost Ratio ¹	1.00	
3. Lifetime kWh Savings	56,484,148	
4. Threshold Lifetime kWh Savings (65%) ²	36,714,696	
5. Budget	871,701	
6. Benefit / Cost Percentage of Budget	4.00%	
7. Lifetime kWh Percentage of Budget	4.00%	
8. C/I Shareholder Incentive	\$69,736	
9. Cap (12%)	\$104,604	
Residential Incentive		
10. Benefit / Cost Ratio	2.26	
11. Threshold Benefit / Cost Ratio ¹	1.00	
12. Lifetime kWh Savings	10,064,877	
13. Threshhold Lifetime kWh Savings (65%) ²	6,542,170	
14. Budget	\$629,253	
15. Benefit / Cost Percentage of Budget	0	
16. Lifetime kWh Percentage of Budget	0	
17. Residential Incentive	\$50,340	
18. Cap (12%)	\$75,510	
19. TOTAL INCENTIVE EARNED	\$ 120,076	

Notes

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

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2011 TRC BENEFIT COST TEST

Planned Versus Actual Benefit / Cost Ratio by Sector

2012

	<u> </u>	Planned	<u>Actual</u>
Commercial & Industrial:			
1. Benefits (Value) From Eligible Programs	\$	4,856	
2. Implementation Expenses	\$	872	
3. Customer Contribution	\$	790	
4. Total Costs Excluding Shareholder Incentive	\$	1,662	
5. Benefit/Cost Ratio - C&I Sector		2.92	
6. Benefit/Cost Ratio - C&I Sector including SI		2.80	
Residential:			
6. Benefits (Value) From Eligible Programs	\$	1,782	
7. Implementation Expenses	\$	629	
8. Customer Contribution	\$	110	
9. Total Costs Excluding Shareholder Incentive	\$	739	
10. Benefit/Cost Ratio - Residential Sector		2.41	
11. Benefit/Cost Ratio - Residential Sector including SI		2.26	

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Actual Lifetime Energy Savings by Sector and Program 2012

	Lifetime kW	/h Savings
Commercial & Industrial:	<u>Planned</u>	<u>Actual</u>
Commercial & Industrial:		
New Equipment & Construction	9,104,728	
Large C&I Retrofit	39,536,529	
Small Business Energy Solutions	7,842,891	
Total Commercial & Industrial Included for Incentive Calculation	56,484,148	
Residential:		
Home Energy Assistance Program	1,324,252	
NH Home Performance with ENERGY STAR	4,621,783	
ENERGY STAR Homes Program	340,042	
ENERGY STAR Appliance Program	1,259,794	
ENERGY STAR Lighting Program	2,519,006	
Total Residential Included for Incentive Calculation	10,064,877	
Total	66,549,024	

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NEW HAMPSHIRE ELECTRIC COOPERTIVE, INC.

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(Revised 12-2-2011)

Program Cost-Effectiveness - 2012 PLAN

			Pro	eser	nt Value								
	Total Resource Benefit/Cost			1.14:	lity Costs		lember Costs	Annua		Lifetime MWh	Winter kW	Summer kW	Number of Members
	Ratio	Ron	efit (\$000)		(\$000)		\$000)	Saving		Savings	Savings	Savings	Served
Residential Programs	Ratio	ben	ent (3000)		(3000)		Ş υυυ)	Saville	,5	Savings	Savings	Saviligs	Serveu
ENERGY STAR Homes	4.6	\$	1,307.4	Ś	160.9	\$	126.0	50	9.2	915.1	11.9	23.6	57
Home Performance w/Energy Star	2.5	\$	542.3		180.8	\$	31.9		2.1	5,474.4	115.3	115.3	59
ENERGY STAR Lighting *1	2.3	\$	405.2	\$	108.1	\$	64.3	1,28		6,791.2	298.1	79.2	39,467
ENERGY STAR Appliances	1.4	\$	396.0	\$	142.1	\$	140.9	360	0.3	3,674.5	49.6	44.5	1,914
Home Energy Assistance	2.2	\$	477.1	\$	215.6	\$	-	73	3.6	883.4	24.8	24.8	61
High Efficiency Heat Pump	<u>2.3</u>	\$	657.4	\$	138.4	\$	148.1	408	3.6	10,214.7	107.3	6.1	20
Subtotal Residential	2.6	\$	3,785.4	\$	946.0	\$	511.2	2,525	5.1	27,953.2	607.0	293.5	41,578
Commercial/Industrial Programs													
New Construction / Major Renovation	1.2	ć	480.1	\$	129.4	\$	265.7	386	- 0	5,803.3	49.3	75.6	14
Large C&I Retrofit	1.0	ې د	477.4	ç	148.0	ç	312.0	46:		6,004.8	56.3	75.0 86.2	23
Small C&I Retrofit	1.3	ب ذ	390.6	٠ د	165.0	ب خ	128.1	370		4,815.5	46.0	74.5	31
Other (Education)	0.0	ς ς	-	ς ς	35.6	ς ς	-	570	J. 4	4,813.3	-	-	-
Smart Start	<u>0.0</u>	\$	-	\$	13.4	\$	-	-		-	-	_	_
Subtotal C&I	1.1	' —	1,348.1	<u>-</u>	491.4	·	705.8	1,219	9.2	16,623.7	151.6	236.3	68
Total		\$	5,133.5	\$	1,437.3	\$	1,217.1	3,744	1.3	44,576.8	758.6	529.8	41,646

Note 1: Plan included 9,867 members purchasing a total of 39,467 lighting products (4 per member)

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Present Value Benefits - 2012 PLAN

			CAP	ACITY						
	Total Benefits (\$000)	Summer Generation	Winter Generation	Transmission	Distribution	Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak	Non Electric Resource
Residential Programs										
ENERGY STAR Homes	\$1,307	\$24,267	\$0	\$4,979	\$16,381	\$14,014	\$18,001	\$13,190	\$10,913	\$1,205,673
Home Performance w/Energy Star	\$542	\$113,798	\$0	\$24,000	\$78,965	\$94,196	\$122,401	\$49,046	\$59,883	\$0
ENERGY STAR Lighting *1	\$405	\$16,635	\$0	\$5,785	\$19,033	\$105,555	\$136,059	\$55,471	\$66,674	\$0
ENERGY STAR Appliances	\$396	\$18,414	\$0	\$5,953	\$19,586	\$59,366	\$77,453	\$32,447	\$38,104	\$144,663
Home Energy Assistance	\$477	\$14,086	\$0	\$3,962	\$13,036	\$14,612	\$19,069	\$7,676	\$9,288	\$395,405
High Efficiency Heat Pump	<u>\$657</u>	\$11,48 <u>5</u>	<u>\$0</u>	<u>\$1,871</u>	\$6,15 <u>5</u>	\$206,492	\$402,307	<u>\$15,790</u>	\$13,252	<u>\$0</u>
Subtotal Residential	\$3,785	\$198,684	\$0	\$46,549	\$153,156	\$494,236	\$775,289	\$173,619	\$198,114	\$1,745,741
Commercial/Industrial Programs										
New Construction / Major Renovation	\$480	\$66,604	\$0	\$14,835	\$48,811	\$98,094	\$91,379	\$91,362	\$69,036	\$0
Large C&I Retrofit	\$477	\$57,742	\$0	\$14,825	\$48,778	\$115,321	\$100,486	\$82,651	\$57,595	\$0
Small C&I Retrofit	\$391	\$49,901	\$0	\$12,812	\$42,154	\$103,461	\$81,063	\$59,766	\$41,434	\$0
Other (Education)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Smart Start	\$0	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Subtotal C&I	\$1,348	\$174,246	\$0	\$42,472	\$139,743	\$316,876	\$272,928	\$233,779		\$0
Total	\$5,133	\$372,930	\$0	\$89,022	\$292,898	\$811,112	\$1,048,217	\$407,398	\$366,179	\$1,745,741

NEW HAMPSHIRE ELECTRIC COOPERTIVE, INC.

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Shareholder Incentive Calculation 2012

	<u>Planned</u>	<u>Actual</u>
Commercial/Industrial Incentive		
1. Benefit/Cost Ratio	1.10	0.00
2. Threshold Benefit / Cost Ratio ¹	1.00	
3. Lifetime kWh Savings	16,623,664	0
4. Threshold Lifetime kWh Savings (65%) ²	10,805,382	
5. Budget	\$410,918	\$0
6. Benefit / Cost Percentage of Budget	4.00%	
7. Lifetime kWh Percentage of Budget	4.00%	
8. C/I Member Incentive	\$32,873	
9. Cap (12%)	\$49,310	
Residential Incentive		
10. Benefit / Cost Ratio	2.49	0.00
		0.00
11. Threshold Benefit / Cost Ratio ¹	1.00	0
12. Lifetime kWh Savings	27,953,151	0
13. Threshhold Lifetime kWh Savings (65%) ²	18,169,548	
14. Budget	\$826,387	
15. Benefit / Cost Percentage of Budget	4.00%	
16. Lifetime kWh Percentage of Budget	4.00%	
17. Residential Incentive	\$66,111	
18. Cap (12%)	\$99,166	
19. TOTAL INCENTIVE EARNED		

Notes

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

NEW HAMPSHIRE ELECTRIC COOPERTIVE, INC.

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Planned Versus Actual Benefit / Cost Ratio by Sector 2012

	<u>Planned</u>	<u>Actual</u>
Commercial & Industrial:		
1. Benefits (Value) From Eligible Programs	\$ 1,348,109	\$ -
2. Implementation Expenses ¹	\$ 410,918	\$ -
3. Customer Contribution	\$ 819,138	\$ -
4. Estimated Member Incentive	\$ 32,873	
5. Total Costs Including Member Incentive	\$ 1,230,056	\$ -
5. Benefit/Cost Ratio - C&I Sector	1.10	0.00
Residential:		
6. Benefits (Value) From Eligible Programs	\$ 3,785,389	\$ -
7. Implementation Expenses ¹	\$ 826,387	\$ -
8. Customer Contribution	\$ 696,904	\$ -
4. Estimated Member Incentive	\$ 66,111	
5. Total Costs Including Member Incentive	\$ 1,523,291	\$ -
10. Benefit/Cost Ratio - Residential Sector	2.49	0.00

^{1. \$119,563} residential and \$80,437 commercial carryover excluded from budget for purposes of the incentive calculation.

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Actual Lifetime Energy Savings by Sector and Program 2012

	Lifetime kW	h Savings
	<u>Planned</u>	<u>Actual</u>
Commercial & Industrial:		
New Equipment & Construction	5,803,325	0
Large C&I Retrofit	6,004,825	0
Small Business Energy Solutions	4,815,514	0
Education	0	0
Other	<u>0</u>	<u>0</u>
Total Commercial & Industrial Included for Incentive Calculation	16,623,664	0
Residential:		
Home Energy Assistance Program	883,391	0
Home Energy Solutions Program	5,474,363	0
ENERGY STAR Homes Program	915,068	0
ENERGY STAR Appliance Program	3,674,464	0
ENERGY STAR Lighting Program	6,791,203	0
High Efficiency Heat Pump Program	10,214,662	<u>0</u>
Total Residential Included for Incentive Calculation	27,953,151	0

Program Cost-Effectiveness - 2012 PLAN

Present Value												
	Total Resource Benefit/Cos t Ratio		Benefit (\$000)	Ut	ility Costs (\$000)		customer Costs (\$000)	Annual MWh Savings	Lifetime MWh Savings	Winter kW Savings	Summer kW Savings	Number of Customers Served
Residential Programs												
Home Energy Assistance	2.22	\$	4,838.6	\$	2,182.3	\$	-	767.4	10,469.5	88.4	81.3	760
Home Performance w/Energy Sta	2.10	\$	5,808.4	\$	1,660.1	\$	1,112.0	226.0	1,482.6	65.1	14.6	1,036
ENERGY STAR Homes	5.24	\$	6,770.1	\$	1,033.4	\$	257.7	534.8	9,627.6	142.6	101.1	384
ENERGY STAR Appliances	1.42	\$	2,280.2	\$	779.3	\$	827.7	2,012.7	20,632.0	285.3	269.2	13,783
ENERGY STAR Lighting	2.37	\$	2,291.1	\$	762.5	\$	204.1	7,204.7	38,397.0	1,659.6	441.0	64,826
EnergyStar Homes (Geothermal)	3.09	\$	2,076.6	\$	385.6	\$	285.7	1,317.6	32,939.2	354.4	7.1	66
Behavior Based Software	1.01	\$	251.4	\$	250.0	\$	-	4,050.0	4,050.0	425.3	462.3	25,000
Other		\$	-	\$		\$		0.0	-			
Subtotal Residential	2.50	\$	24,316.4	\$	7,053.1	\$	2,687.2	16,113.2	117,598.0	3,020.7	1,376.8	105,856
Commercial/Industrial Programs	S											
New Construction / Major Renova		\$	7,421.2	\$	1,704.4	\$	482.6	5,450.6	85,348.1	778.9	1,230.2	94
Large C&I Retrofit	1.51	\$	8,197.3	\$	2,260.1	\$	3,173.4	7,884.4	101,484.6	1,018.8	1,588.2	101
Small Business Energy Solutions	1.48	\$	7,803.7	\$	2,816.6	\$	2,467.6	7,300.4	94,040.7	906.2	1,570.1	1,047
C&I RFP Pilot	2.49	\$	2,370.8	\$	544.8	\$	407.3	2,538.7	30,184.8	332.2	491.4	10
Other (Education)	0.00	\$, <u>-</u>	\$	103.8	\$	-	, -	, -	-	-	-
CI Partnerships		\$	-	\$	30.7	\$	-	0.0	-	-	-	3
Subtotal C&I	1.84		25,793.0	\$	7,460.4	\$	6,530.8	23,174.1	311,058.2	3,036.1	4,880.0	1,255
Smart Start		\$	-	\$	35.0	\$	-	0.0	-	-	0	-
		\$	-	\$	35.0	\$	-	0.0	-	-	0	-
Total	2.11		50,109.4	\$	14,548.4	\$	9,218.0	39,287.2	428,656.2	6,056.8	6,256.8	107,111

Note 1: Energy Star Lighting Program plan includes 64,826 customers purchasing a total 222,352 lighting products.

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Present Value Benefits - 2012 PLAN

			CAPA	CITY			EN	ERGY		
	Total	Summer	Winter			Winter	Winter Off	Summer	Summer Off	Non Electric
	Benefits	Generation	Generation	Transmission	Distribution	Peak	Peak	Peak	Peak	Resource
Residential Programs										
Home Energy Assistance	\$4,838,587	\$57,483	\$0	\$14,338	\$47,176	\$178,464	\$246,298	\$83,808	\$101,671	\$4,109,348
Home Performance w/Energy Star	\$5,808,441	\$2,780	\$0	\$1,011	\$3,327	\$24,702	\$39,546	\$7,666	\$9,197	\$5,720,212
ENERGY STAR Homes	\$6,770,103	\$167,693	\$0	\$28,188	\$92,745	\$174,011	\$222,958	\$88,497	\$110,134	\$5,885,877
ENERGY STAR Appliances	\$2,280,168	\$111,364	\$0	\$35,926	\$118,205	\$328,372	\$428,376	\$194,338	\$215,787	\$847,799
ENERGY STAR Lighting	\$2,291,085	\$93,591	\$0	\$32,379	\$106,534	\$597,357	\$770,015	\$313,872	\$377,337	\$0
EnergyStar Homes (Geothermal)	\$2,076,583	\$13,564	\$0	\$2,209	\$7,270	\$673,825	\$1,333,919	\$24,972	\$20,823	\$0
Behavior Based Software	\$251,448	\$20,722	\$0	\$6,556	\$21,571	\$58,887	\$74,783	\$31,948	\$36,982	\$0
Other	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Subtotal Residential	\$24,316,416	\$467,197	\$0	\$120,609	\$396,828	\$2,035,618	\$3,115,895	\$745,101	\$871,932	\$16,563,236
Commercial/Industrial Programs										
New Construction / Major Renovation	\$7,421,238	\$1,168,422	\$0	\$250,922	\$825,586	\$739,445	\$941,715	\$1,909,241	\$1,585,906	\$0
Large C&I Retrofit	\$8,197,250	\$1,031,069	\$0	\$268,816	\$884,457	\$1,577,380	\$1,492,539	\$1,677,276	\$1,265,713	\$0
Small Business Energy Solutions	\$7,803,739	\$1,048,697	\$0	\$267,660	\$880,657	\$2,159,132	\$1,489,340	\$1,207,163	\$751,089	\$0
C&I RFP Pilot	\$2,370,756	\$273,155	\$0	\$77,287	\$254,290	\$405,466	\$437,707	\$518,577	\$404,275	
Other (Education)	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	
CI Partnerships	\$0	\$0	<u>\$0</u>		\$0	\$0	\$0	\$0	\$0	\$0
Subtotal C&I	\$25,792,984	\$3,521,343	\$0		\$2,844,990	\$4,881,424	\$4,361,302	\$5,312,2 <mark>57</mark>	\$4,006,983	
Total	\$50,109,399	\$3,988,540	\$0	\$985,294	\$3,241,818	\$6,917,042	\$7,477,197	\$6,057,358	\$4,878,914	\$16,563,236

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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Shareholder Incentive Calculation

2012

	Planned	<u>Actual</u>
Commercial/Industrial Incentive		
1. Benefit/Cost Ratio	1.77	0.00
2. Threshold Benefit / Cost Ratio ¹	1.00	
3. Lifetime kWh Savings	311,058,212	0
4. Threshold Lifetime kWh Savings (65%) ²	202,187,838	
5. Budget	\$7,460,377	\$0
6. Benefit / Cost Percentage of Budget	4.00%	
7. Lifetime kWh Percentage of Budget	4.00%	
8. C/I Shareholder Incentive	\$596,830	
9. Cap (12%)	\$895,245	
Residential Incentive		
10. Benefit / Cost Ratio	2.38	0.00
11. Threshold Benefit / Cost Ratio ¹	1.00	
12. Lifetime kWh Savings	117,597,977	0
13. Threshhold Lifetime kWh Savings (65%) ²	76,438,685	
14. Budget ³	\$5,791,392	\$0
15. Benefit / Cost Percentage of Budget	4.00%	
16. Lifetime kWh Percentage of Budget	4.00%	
17. Residential Incentive	\$463,311	
18. Cap (12%)	\$694,967	
19. TOTAL INCENTIVE EARNED		

Notes

- $1.\ Actual\ Benefit\ /\ Cost\ Ratio\ for\ each\ sector\ must\ be\ greater\ than\ or\ equal\ to\ 1.0.$
- 2. Actual Lifetime kWh Savings for each sector must be greater than or equal to 65% of projected savings.
- 3. Residential Budget excludes costs associated with fossil fuel energy efficiency measures.

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Planned Versus Actual Benefit / Cost Ratio by Sector 2012

	Planned	Actual
Commercial & Industrial:		
1. Benefits (Value) From Eligible Programs	\$ 25,792,984	\$ -
2. Implementation Expenses	\$ 7,460,377	\$ -
3. Customer Contribution	\$ 6,530,815	\$ -
4. Estimated Shareholder Incentive	\$ 596,830	
5. Total Costs (including shareholder incentive)	\$ 14,588,022	\$ -
6. Benefit/Cost Ratio - C&I Sector	1.77	0.00
Residential:		
7. Benefits (Value) From Eligible Programs	\$ 24,316,416	\$ -
8. Implementation Expenses	\$ 7,053,069	\$ -
9. Customer Contribution	\$ 2,687,188	\$ -
10. Estimated Shareholder Incentive	\$ 463,311	
11. Total Costs (including shareholder incentive)	\$ 10,203,568	\$ -
12. Benefit/Cost Ratio - Residential Sector	2.38	0.00

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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(Revised 12-15-2011)

Actual Lifetime Energy Savings by Sector and Program 2012

	Lifetime kWh Savings					
	Planned	Actual				
Commercial & Industrial:						
New Construction / Major Renovation	85,348,090	0				
Large C&I Retrofit	101,484,572	0				
Small Business Energy Solutions	94,040,728	0				
C&I RFP Pilot	30,184,822	0				
Other (Education)	0	0				
CI Partnerships	<u>0</u>	<u>0</u>				
Total Commercial & Industrial Included for Incentive Calculat	311,058,212	0				
Residential:						
Home Energy Assistance	10,469,536	0				
Home Performance w/Energy Star	1,482,626	0				
ENERGY STAR Homes	9,627,607	0				
ENERGY STAR Appliances	20,632,001	0				
ENERGY STAR Lighting	38,397,028	0				
EnergyStar Homes (Geothermal)	32,939,179	0				
Behavior Based Software	4,050,000	0				
Other	<u>0</u>	0				
Total Residential Included for Incentive Calculation	117,597,977	0				

Program Cost-Effectiveness - 2012 PLAN

	Total Resource Benefit/Cost Ratio	_	sent Value efit (\$000)	esent Value ility Costs ⁽¹⁾ (\$000)	C	esent Value Customer osts (\$000)	Annual MWh Savings	Lifetime MWh Savings	Winter kW Savings	Summer kW Savings	Number of Customers Served
Residential Programs											_
ENERGY STAR Homes	3.6	\$	1,037.3	\$ 217.3	\$	67.3	111.4	2,481.6	73.9	2.1	39
Home Performance with Energy Star	1.6	\$	652.7	\$ 251.8	\$	150.6	85.0	1,205.2	16.7	1.3	68
ENERGY STAR Lighting (2)	2.5	\$	618.4	\$ 188.8	\$	56.8	1,815.2	9,187.6	541.0	143.8	57,142
ENERGY STAR Appliances (2)	1.4	\$	459.0	\$ 143.8	\$	193.4	352.1	3,632.8	49.1	59.8	1,726
Home Energy Assistance	2.9	\$	1,127.8	\$ 388.2	\$	-	77.3	1,261.9	16.7	1.5	73
Res/K-12 Education	0.0	\$	-	\$ 33.0	\$	-	-	-	-	-	-
ISO-Related Expenses Res/LI	0.0	\$		\$ 5.0	\$	-					
Subtotal Residential	2.3	\$	3,895.0	\$ 1,227.923	\$	468.1	2,441.0	17,769.1	697.4	208.4	59,048
Commercial/Industrial Programs											
New Construction / Major Renovation	2.7	\$	826.7	\$ 257.1	\$	53.1	613.2	9,197.6	139.2	169.7	14
Large C&I Retrofit	1.9	\$	2,216.4	\$ 562.5	\$	628.1	2,172.7	28,244.5	313.0	432.6	26
Small C&I Retrofit	1.7	\$	1,255.3	\$ 452.8	\$	266.4	1,203.1	15,640.1	152.0	272.1	58
C&I Education	0.0	\$	-	\$ 24.5	\$	-	-	-	-	-	-
ISO-Related Expenses C&I	<u>0.0</u>	\$	-	\$ 7.5	\$	-					
Subtotal C&I	1.9		4,298.4	1,304.5		947.6	3,988.9	53,082.3	604.2	874.4	98
Total		\$	8,193.4	\$ 2,532.4	\$	1,415.7	6,429.9	70,851.4	1,301.6	1,082.8	59,146

⁽¹⁾ Utility Costs include direct program costs plus projected Shareholder Incentive.

⁽²⁾ Target number of products purchased.

UNITIL ENERGY SYSTEMS, INC. NHPUC Docket No. DE 10-188 Attachment G Page 2 of 5 (Revised 12-15-2011)

Present Value Benefits - 2012 PLAN

			CAF	PACITY			Non			
	Total Benefits (\$000)	Summer Generation	Winter Generation	Transmission	Distribution	Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak	Non Electric Resource
Residential Programs										
ENERGY STAR Homes	\$1,037,260	\$1,593	\$0	\$11,190	\$36,818	\$50,034	\$98,703	\$2,768	\$2,104	\$834,050
Home Performance w/Energy Star	\$652,700	\$368	\$0	\$1,495	\$4,919	\$22,519	\$40,613	\$3,596	\$4,338	\$574,853
ENERGY STAR Lighting *1	\$618,363	\$27,661	\$0	\$23,930	\$78,733	\$141,614	\$182,479	\$74,524	\$89,423	\$0
ENERGY STAR Appliances	\$458,960	\$25,215	\$0	\$7,349	\$24,178	\$58,729	\$76,631	\$31,987	\$37,661	\$197,210
Home Energy Assistance	<u>\$1,127,756</u>	<u>\$618</u>	<u>\$0</u>	<u>\$1,845</u>	<u>\$6,070</u>	<u>\$22,658</u>	<u>\$33,881</u>	<u>\$8,520</u>	<u>\$10,455</u>	\$1,043,711
Subtotal Residential	\$3,895,039	\$55,455	\$0	\$45,808	\$150,718	\$295,553	\$432,307	\$121,395	\$143,979	\$2,649,824
Commercial/Industrial Programs										
New Construction / Major Renovation	\$826,688	\$149,550	\$0	\$30,313	\$99,735	\$133,699	\$183,809	\$119,780	\$109,801	\$0
Large C&I Retrofit	\$2,216,395	\$289,819	\$0	\$64,128	\$210,994	\$403,024	\$555,180	\$362,549	\$330,700	\$0
Small C&I Retrofit	\$1,255,327	\$182,291	<u>\$0</u>	<u>\$36,477</u>	\$120,017	\$300,795	<u>\$307,426</u>	<u>\$158,493</u>	<u>\$149,827</u>	<u>\$0</u> \$0
Subtotal C&I	\$4,298,410	\$621,660	\$0	\$130,918	\$430,747	\$837,518	\$1,046,416	\$640,823	\$590,328	\$0
Total	\$8,193,449	\$677,115	\$0	\$176,726	\$581,465	\$1,133,071	\$1,478,723	\$762,218	\$734,308	\$2,649,824

UNITIL ENERGY SYSTEMS, INC. NHPUC Docket No. DE 10-188 Attachment G Page 3 of 5 (Revised 12-15-2011)

Shareholder Incentive Calculation 2012

	<u>Planned</u>	<u>Actual</u>
Commercial/Industrial Incentive		
Benefit/Cost Ratio	1.9	0.0
2. Threshold Benefit / Cost Ratio ¹	1.0	
3. Lifetime kWh Savings	53,082,260	0
4. Threshold Lifetime kWh Savings (65%) ²	34,503,469	
5. Budget	\$1,207,894	\$0
Benefit / Cost Percentage of Budget	4.00%	
7. Lifetime kWh Percentage of Budget	4.00%	
8. C/I Shareholder Incentive	\$96,632	
9. Cap (12%)	\$144,947	_
Residential Incentive		
10. Benefit / Cost Ratio	2.3	0.0
11. Threshold Benefit / Cost Ratio ¹	1.0	
12. Lifetime kWh Savings	17,769,098	0
13. Threshhold Lifetime kWh Savings (65%) ²	11,549,914	
14. Budget ³	\$926,968	
Benefit / Cost Percentage of Budget	4.00%	
16. Lifetime kWh Percentage of Budget	4.00%	
17. Residential Incentive	\$74,157	
18. Cap (12%)	\$111,236	
19. TOTAL PLANNED / EARNED INCENTIVE	\$ 170,789	

Notes

- 1. Actual Benefit / Cost Ratio for each sector must be greater than or equal to 1.0.
- 2. Actual Lifetime kWh Savings for each sector must be greater than or equal to 65% of projected savings.
- 3. Residential Budget excludes costs associated with fossil fuel energy efficiency measures.

UNITIL ENERGY SYSTEMS, INC. NHPUC Docket No. DE 10-188 Attachment G Page 4 of 5 (Revised 12-15-2011)

Planned Versus Actual Benefit / Cost Ratio by Sector 2012

		<u>Planned</u>			<u>Actual</u>		
Comi	nercial & Industrial:						
1.	Benefits (Value) From Eligible Programs	\$	4,298,410	\$	-		
2.	Implementation Expenses	\$	1,207,894	\$	-		
3.	Customer Contribution	\$	947,641	\$	-		
4.	Shareholder Incentive	\$	96,632	\$	-		
5.	Total Costs	\$	2,252,166	\$	-		
6.	Benefit/Cost Ratio - C&I Sector		1.9		0.0		
Resid	lential:						
6.	Benefits (Value) From Eligible Programs	\$	3,895,039	\$	-		
7.	Implementation Expenses	\$	1,153,766	\$	-		
8.	Customer Contribution	\$	468,067	\$	-		
9.	Shareholder Incentive	\$	74,157	\$			
10.	Total Costs	\$	1,695,991	\$	-		
11.	Benefit/Cost Ratio - Residential Sector		2.3		0.0		

UNITIL ENERGY SYSTEMS, INC. NHPUC Docket No. DE 10-188 Attachment G Page 5 of 5 (Revised 12-15-2011)

Actual Lifetime Energy Savings by Sector and Program 2012

	Lifetime kWh	Savings
	<u>Planned</u>	<u>Actual</u>
Commercial & Industrial:		
New Equipment & Construction	9,197,573	0
Large C&I Retrofit	28,244,540	0
Small Business Energy Solutions	15,640,147	0
Total Commercial & Industrial Included for Incentive Calculation	53,082,260	0
Residential:		
Home Energy Assistance Program	1,261,874	0
Home Energy Solutions Program	1,205,185	0
ENERGY STAR Homes Program	2,481,582	0
ENERGY STAR Appliance Program	3,632,826	0
ENERGY STAR Lighting Program	9,187,631	0
Total Residential Included for Incentive Calculation	17,769,098	0

NH CORE Energy Efficiency Program - 2012 Budget Details

RESIDENTIAL PROGRAMS	Internal Adm	External Adm	Cust Rebts/Services	Internal Impl.	Marketing	(see Note 1) Evaluation	Total
National Grid	\$3,542	\$11,642	\$81,692	\$5,247	\$1,637	\$846	\$104,606
NHEC	\$11,606	\$1,667	\$102,727	\$37,537	\$1,150	\$6,222	\$160,909
PSNH	\$25,960	\$0	\$875,412	\$80,000	\$10,384	\$41,636	\$1,033,392
Unitil	\$11,571	\$2,500	\$123,163	\$42,267	\$6,000	\$14,500	\$200.000
ENERGY STAR Homes	\$52,679	\$15,809	\$1,182,994	\$165,050	\$19,171	\$63,204	\$1,498,907
National Crid	¢1 050	¢1E 706	¢110 249	¢0.750	¢4 077	\$0.212	¢141 024
National Grid	\$1,858	\$15,786	\$110,348	\$2,753	\$1,277	\$9,212	\$141,234
NHEC	\$11,606	\$1,667	\$115,232	\$44,895	\$1,150	\$6,223	\$180,773
PSNH	\$44,503	\$37,000	\$1,299,420	\$190,000	\$17,801	\$71,377	\$1,660,101
Unitil	\$14,456	\$5,313	\$154,188	\$52,794	\$4,500	\$18,750	\$250,000
Home Performance w/ Energy Star	\$72,424	\$59,766	\$1,679,187	\$290,441	\$24,728	\$105,562	\$2,232,108
National Grid	\$8,811	\$11,796	\$40,531	\$13,051	\$3,921	\$2,367	\$80,477
NHEC	\$11,606	\$1,667	\$93,794	\$24,159	\$4,650	\$6,223	\$142,099
PSNH	\$19,732	\$0	\$685,005	\$35,000	\$7,893	\$31,647	\$779,277
Unitil	\$6,944	\$4,341	\$72,736	\$25,743	\$6,525	\$7,753	\$124,042
Energy Star Appliances	\$47,094	\$17,804	\$892,066	\$97,953	\$22,988	\$47,989	\$1,125,895
Life gy otal Appliances	Ψ-1,00-	Ψ17,004	ψ032,000	ψ57,555	ΨΖΖ,300	Ψ+1,505	ψ1,120,000
National Grid	\$6,456	\$9,964	\$190,636	\$9,563	\$912	\$4,511	\$222,043
NHEC	\$11,606	\$1,667	\$163,668	\$31,432	\$1,000	\$6,223	\$215,596
PSNH	\$54,557	\$22,000	\$1,842,208	\$160,000	\$16,000	\$87,502	\$2,182,267
Unitil	\$17,964	\$8,312	\$236,106	\$63,825	\$10,784	\$22,466	\$359,456
Home Energy Assistance	\$90,583	\$41,943	\$2,432,618	\$264,820	\$28,696	\$120,702	\$2,979,362
	****	* 11,010	 ,,	*====================================	V =0,000	V	*
National Grid	\$10,396	\$19,749	\$28,947	\$15,398	\$3,314	\$3,089	\$80,893
NHEC	\$11,606	\$1,667	\$54,490	\$24,159	\$10,000	\$6,223	\$108,145
PSNH	\$21,186	\$0	\$468,792	\$55,000	\$183,496	\$33,980	\$762,454
Unitil	\$9,330	\$20,007	\$74,328	\$34,426	\$17,000	\$10,339	\$165,431
ENERGY STAR Lighting	\$52,518	\$41,423	\$626,557	\$128,984	\$213,810	\$53,631	\$1,116,923
3 7 3	* - /	, ,	* /	*		* /	, , , , , , , , , , , , , , , , , , , ,
National Grid	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NHEC	\$11,606	\$1,667	\$80,395	\$37,537	\$1,000	\$6,223	\$138,428
PSNH	\$9,889	\$6,000	\$525,655	\$75,000	\$3,172	\$15,862	\$635,578
Unitil (Res. Website, ISO Expenses)	\$2,400	\$7,000	\$21,000	\$7,600	\$0	\$0	\$38,000
Other Residential Programs	\$23,895	\$14,667	\$627,050	\$120,137	\$4,172	\$22,085	\$812,006
Total Residential Programs	\$339,192	\$191,411	\$7,440,473	\$1,067,385	\$313,566	\$413,174	\$9,765,201
COMMERCIAL, INDUSTRIAL AND MUN	NICIPAL PROGR	AMS					
National Grid	\$28,021	\$5,743	\$146,704	\$53,324	\$573	\$15,601	\$249,966
NHEC	\$11,606	\$1,667	\$80,645	\$28,090	\$1,150	\$6,223	\$129,381
PSNH	\$43,124	\$0	\$1,277,557	\$289,500	\$8,000	\$86,248	\$1,704,429
Unitil	\$12,899	\$1,189	\$159,425	\$48,836	\$1,784	\$13,674	\$237,805
New Equipment & Construction	\$95,650	\$8,599	\$1,664,331	\$419,749	\$11,506	\$121,746	\$2,321,581
National Caid	POF 200	PE 40 E	¢204.004	#25.005	#0.004	#42.004	£40E COC
National Grid	\$25,200	\$5,165	\$324,684	\$35,285	\$2,291	\$13,001	\$405,626
NHEC	\$11,606	\$1,667	\$99,255	\$28,090	\$1,150	\$6,223	\$147,991
PSNH	\$56,951	\$0	\$1,656,979	\$424,500	\$8,000	\$113,628	\$2,260,058
Unitil	\$29,827	\$9,100	\$338,208	\$110,573	\$1,092	\$31,200	\$520,000
Large C&I Retrofit	\$123,584	\$15,932	\$2,419,126	\$598,448	\$12,533	\$164,052	\$3,333,675
National Grid	\$8,157	\$1,672	\$195,606	\$2,306	\$1,787	\$6,582	\$216,109
NHEC	\$11,606	\$1,666	\$99,256	\$45,046	\$1,152	\$6,223	\$164,949
PSNH	\$70,586	\$0	\$2,057,058	\$520,000	\$28,166	\$140,832	\$2,816,642
Unitil	\$22,933	\$8,277	\$266,399	\$85,951	\$10,451	\$24,038	\$418,049
Small Business Energy Solutions	\$113,282	\$11,615	\$2,618,318	\$653,303	\$41,556	\$177,675	\$3,615,749
	•		*-	* -	•	20	*-
N. 0. 1811		ደ በ	\$0	\$0	\$0	\$0	\$0
National Grid	\$0	\$0	_		ው ሰ	ው ስ	\$49,033
NHEC	\$4,352	\$0	\$31,017	\$13,664	\$0	\$0	
NHEC PSNH (Education, RFP, Smart Start)	\$4,352 \$16,896	\$0 \$0	\$558,896	\$98,000	\$6,743	\$33,713	\$714,248
NHEC PSNH (Education, RFP, Smart Start) itil (Education, C&I Web, ISO Expenses)	\$4,352 \$16,896 \$3,600	\$0 \$0 \$4,260	\$558,896 \$12,780	\$98,000 \$11,400	\$6,743 \$0	\$33,713 \$0	\$714,248 \$32,040
NHEC PSNH (Education, RFP, Smart Start) itil (Education, C&I Web, ISO Expenses)	\$4,352 \$16,896	\$0 \$0	\$558,896	\$98,000	\$6,743	\$33,713	\$714,248 \$32,040
NHEC PSNH (Education, RFP, Smart Start)	\$4,352 \$16,896 \$3,600	\$0 \$0 \$4,260	\$558,896 \$12,780	\$98,000 \$11,400	\$6,743 \$0	\$33,713 \$0	\$714,248 \$32,040 \$795,321 \$10,066,326

 $Note \ 1: \ Evaluation \ amounts \ are \ based \ on \ 5\% \ of \ total \ budgets. \ Actual \ program \ expenses \ will \ vary \ from \ numbers \ shown.$

(Revised 12-2-2011)

New Hampshire CORE Energy Efficiency Goals - 2012

	National Grid		NHEC		PSNH		UNITIL		TOTALS	
PROGRAMS										
Energy Star Homes										
Number of Homes / Lifetime kWh Savings B/C Ratio / Planned Budget	25 4.37	340,042 \$104,606	57 4.56	915,068 \$160,909	384 5.24	9,627,607 \$1,033,392	39 3.70	2,481,582 \$200,000	505	13,364,299 \$1,498,907
NH Home Performance with Energy Star										
Number of Units / Lifetime kWh Savings	145	4,621,783	59	5,474,363	1,036	1,482,626	68	1,205,185	1,308	12,783,957
B/C Ratio / Planned Budget	2.46	\$141,234	2.50	\$180,773	2.10	\$1,660,101	1.55	\$250,000		\$2,232,108
Energy Star Appliances										
Number of Rebates / Lifetime kWh Savings B/C Ratio / Planned Budget	875 1.90	1,259,794 \$80,477	1,914 1.40	3,674,464 \$142,099	13,783 1.42	20,632,001 \$779,277	1,617 1.40	3,401,933 \$124,042	18,189	28,968,192 \$1,125,895
Home Energy Assistance										
Number of Units / Lifetime kWh Savings	54	1,324,252	61	883,391	760	10,469,536	73	1,261,874	948	13,939,053
B/C Ratio / Planned Budget	2.23	\$222,043	2.21	\$215,596	2.22	\$2,182,267	2.90	\$359,456		\$2,979,362
Energy Star Lighting										
Number of Rebates / Lifetime kWh Savings	14,507	2,519,006	39,467	6,791,203	222,353	38,397,028	54,375	8,742,738	330,702	56,449,975
B/C Ratio / Planned Budget	1.37	\$80,893	2.35	\$108,145	2.37	\$762,454	2.52	\$165,431		\$1,116,923
C&I New Equipment & Construction										
Number of Participants / Lifetime kWh Savings	13	9,104,728	14	5,803,325	94	85,348,090	14	9,197,573	135	109,453,715
B/C Ratio / Planned Budget	2.66	\$249,966	1.22	\$129,381	3.39	\$1,704,429	2.70	\$237,805		\$2,321,581
Large C&I Retrofit										
Number of Participants / Lifetime kWh Savings	26	39,536,529	23	6,004,825	101	101,484,572	26	28,244,540	176	175,270,465
B/C Ratio / Planned Budget	3.32	\$405,626	1.04	\$147,991	1.51	\$2,260,058	1.90	\$520,000		\$3,333,675
Small Business Energy Solutions										
Number of Participants / Lifetime kWh Savings	33	7,842,891	31	4,815,514	1,047	94,040,728	58	15,640,147	1169	122,339,281
B/C Ratio / Planned Budget	2.01	\$216,109	1.33	\$164,949	1.48	\$2,816,642	1.70	\$418,049		\$3,615,749
Educational Programs (see Note 1)										
B/C Ratio / Planned Budget		\$9,496		\$35,609		\$103,793		\$0		\$139,402
Company Specific Programs										
Number of Participants / Lifetime kWh Savings			20	10,214,662	25,079	67,174,001				77,388,663
B/C Ratio / Planned Budget		\$0	2.29	\$138,428		\$1,211,033		\$70,040		\$1,419,501
Smart Start Program										
Number of Participants / Planned Budget		\$0		\$13,424		\$35,000		\$0		\$48,424
Utility Incentive										
B/C Ratio / Planned Budget		<u>\$120,076</u>		<u>\$98,984</u>		<u>\$1,161,076</u>		<u>\$187,586</u>		<u>\$1,567,721</u>
TOTAL PLANNED BUDGET		\$1,621,030		\$1,536,288		\$15,709,522		\$2,532,409		\$21,399,249

NOTES

⁽¹⁾ National Grid's Educational Program budget is included within other program budgets and therefore is not included in the total to avoid double counting.

NEW HAMPSHIRE CORE ENERGY EFFICIENCY PROGRAMS NHPUC Docket No. DE 10-188 Attachment H (2012) Page 3 of 3 (Revised 12-2-2011)

NH CORE Energy Efficiency Program Goals (January 1 - December 31, 2012)

NH CORE	EXPENSES	SAVINGS	NUMBER OF		
ENERGY EFFICIENCY PROGRAMS	(\$)	(Lifetime kWh)	CUSTOMERS		
RESIDENTIAL (nhsaves@home)					
ENERGY STAR Homes	\$1,498,907	13,364,300	505		
NH Home Performance w/Energy Star	\$2,232,108	12,783,957	1,308		
Home Energy Assistance	\$2,979,362	13,939,053	948		
ENERGY STAR Lighting ¹	\$1,116,923	56,449,975	330,702		
ENERGY STAR Appliances	\$1,125,895	28,968,192	<u>18,189</u>		
TOTAL RESIDENTIAL	\$8,953,195	125,505,477	351,652		
COMMERCIAL & INDUSTRIAL					
(nhsaves@work)					
Educational Programs	\$139,402				
Small Business Energy Solutions	\$3,615,749	122,339,281	1,169		
Large Business Energy Solutions	\$3,333,675	175,270,465	176		
New Equipment & Construction	<u>\$2,321,581</u>	<u>109,453,715</u>	<u>135</u>		
TOTAL COMMERICAL & INDUSTRIAL	\$9,410,407	407,063,461	1,481		
TOTAL	\$18,363,602	532,568,938	353,133		

¹ "Number of customers" is actually number of lighting products purchased.

Exhibit A: Projected Program Expenses

National Grid NH Gas Energy Efficiency Planned Budget New Hampshire Program Year TWO (January 1, 2012 - December 31, 2012)

		Internal	External	Rebates/	Internal	Marketing	Evaluation	Budget Total	Participant	Lifetime	Annual
		Admin	Admin	Services	Impl				Goal	MMBTU	MMBTU
Sector	BCR Activity									Savings	Savings
Resider	ntial										
	Low Income	\$49,054	\$133,744	\$615,079	\$34,536	\$3,486	\$0	\$835,899	360	98,244	4,912
	Residential High-Efficiency Heating, Water-Heating, Controls Program	\$15,119	\$164,621	\$492,054	\$30,284	\$29,847	\$874	\$732,798	1,487	292,719	16,290
	New Home Construction with Energy Star	\$1,824	\$29,998	\$49,850	\$3,661	\$3,213	\$0	\$88,546	34	23,120	925
	Res Building Practices and Demo	\$471	\$4,181	\$14,662	\$942	\$2,191	\$307	\$22,754	10	-	-
	Energy Audit with Home Performance and Weatherization	\$34,655	\$137,912	\$1,408,202	\$69,420	\$21,981	\$8,363	\$1,680,533	1,400	386,904	19,345
	Residential Total	\$101,123	\$470,455	\$2,579,846	\$138,843	\$60,717	\$9,544	\$3,360,529	3,291	800,987	41,473
Commo	ercial & Industrial										
	Large C & I Retrofit Program	\$61,672	\$101,701	\$1,472,589	123543.3	\$22,413	\$25,161	\$1,807,079	270	769,785	52,316
	New Equipment and Construction Program	\$103,868	\$152,552	\$790,548	208072.8	\$37,676	\$42,296	\$1,335,013	374	420,056	22,022
	Small Business Energy Solutions Program	\$19,027	\$44,712	\$238,953	38115.16	\$6,008	\$7,665	\$354,480	29	141,071	9,405
	Commercial & Industrial Total	\$184,567	\$298,965	\$2,502,090	\$369,731	\$66,097	\$75,122	\$3,496,571	673	1,330,911	83,743
Grand	Total	\$285,690	\$769,420	\$5,081,936	\$508,574	\$126,814	\$84,666	\$6,857,100	3,964	2,131,898	125,216

Exhibit B Total Resource Benefit Cost Analysis

January 1, 2012 - December 31, 2012 TRC BENEFIT COST TEST National Grid NH

Gas Energy Efficiency Programs

Shareholder Incentive

Subtotal: Commercial & Industrial

Grand Total

Summary of Benefit, Costs Program Year 2012 (January 1, 2012 - December 31, 2012)

\$7,959

\$13,761

Total Resource Cost Test TRC TRC Total Participant Participant **Total** PA Benefit/ Net Benefits Costs Costs Costs Goal Lifetime **BCR** Activity Benefits (\$000) (\$000) (\$000) (\$000) MMBTU Savings Cost Residential 1.00 \$832 \$0 360 98,244 Low Income \$836 \$836 \$840 386,904 Energy Audit with Home Performance and Weatherization 1.30 \$756 \$3,276 \$2,521 \$1,681 1,400 Residential High-Efficiency Heating, Water-Heating, Controls Program 1.18 \$356 \$2,368 \$2,013 \$733 \$1,280 1,487 292,719 New Home Construction with Energy Star 1.39 \$55 \$197 \$142 \$89 \$53 34 23,120 Res Building Practices and Demo (\$23 \$23 \$23 NA \$0 \$0 10 Shareholder Incentive \$269 Subtotal: Residential \$6,674 \$5,802 \$3,629 \$2,173 3,291 800,987 1.15 \$1,140 Commercial & Industrial \$3,032 270 Large C & I Retrofit Program 1.26 \$1,250 \$6,089 \$4.839 \$1.807 420,056 1.53 \$1,335 New Equipment and Construction Program \$1,185 \$3,419 \$2,234 \$899 374 769,785 Small Business Energy Solutions Program 1.84 \$511 \$1,117 \$606 \$354 \$251 29 141,071

\$2,946

\$4,086

1.34

1.26

\$10,625

\$17,298

38 15 December 2011

\$280

\$3,776

\$7,406

\$4,182

\$6,355

673

3,964

1,330,911

2,131,898

Exhibit D - Shareholder Incentive Page 1 of 2

National Grid NH Energy Efficiency

Target Shareholder Incentive Year TWO- January 1, 2012 - December 31, 2012

Commercial/Industrial Incentive

1. Target Benefit/Cost Ratio	1.34
2. Threshold Benefit/Cost Ratio	1.00
3. Target lifetime MMBTU	1,330,911
4. Threshold MMBTU	865,092
5. Budget	\$3,496,571
6. CE Percentage	4.00%
7. Lifetime MMBTU Percentage	4.00%

8. Target C/I Incentive \$279,726

9. Cap \$419,589

Residential Incentive

10. Target Benefit/Cost Ratio	1.15
11. Threshold Benefit/Cost Ratio	1.00
12. Target lifetime MMBTU	800,987
13. Threshold MMBTU	520,641
\$5.49/therm based on 50% of project cost	\$3,360,530
\$3.08/therm based on 50% of project cost.	4.00%
16. Lifetime MMBTU Percentage	4.00%

17. Target Residential Incentive \$268,842

18. Cap \$403,264

19. TOTAL TARGET INCENTIVE \$548,568

Line No. Notes:

1, 3, 5, 10, 12, and 14. See Exhibit B

2, 6, 7, 11, 15, and 16. Report to the New Hampshire Public Utilities Commission on Ratepayer-Funded Energy Efficiency Issues in New Hampshire, Docket No. DR 96-150, page 21.

- 4. 65% of line 3.
- 8. 8% of line 5.
- 9. 12% of line 5.
- 13. 65% of line 12.
- 17. 8% of line 14.
- 18. 12% of line 14.
- 19. Line 8 plus line 17.

update hehe

update HPWes 98% realization

Exhibit D - Shareholder Incentive Page 2 of 2

National Grid NH Energy Efficiency Target Benefit-Cost Ratio by Sector

Year TWO- January 1, 2012 - December 31, 2012

mmercial & Industrial:	Planned
Benefits (Value) From Eligible Programs	\$10,624,736
Implementation Expenses	\$3,496,571
Customer Contribution	\$4,182,231
Shareholder Incentive	\$279,726
Total Costs Including Shareholder Incentive	\$7,958,528
Benefit/Cost Ratio - C&I Sector	1.34
	Benefits (Value) From Eligible Programs Implementation Expenses Customer Contribution Shareholder Incentive Total Costs Including Shareholder Incentive

Residential:

Residential.	
7. Benefits (Value) From Eligible Programs	\$6,673,618
8. Implementation Expenses	\$3,360,530
9. Customer Contribution	\$2,173,008
10. Shareholder Incentive	\$268,842
11. Total Costs Including Shareholder Incentive	\$5,802,380
12. Benefit/Cost Ratio - Residential Sector	1.15

Line No. Notes:

- 1 4 and 7-11. See Exhibit B.
- 5. Sum of lines 2-4.
- 6. Line 1 divided by line 5. The shareholder incentive mechanism described by the New Hampshire Energy Efficiency Working Group and approved by the Commission in Order No. 23,574 includes a circular calculation. A portion of the earned shareholder incentive is related to the benefit/cost ratio (BCR). However, the shareholder incentive is supposed to be included as an EE cost in determining the BCR. For the purpose of calculating the shareholder incentive, the Company has calculated the planned BCR including the shareholder incentive for one iteration and will compare the actual BCR including the shareholder incentive to the planned BCR including shareholder incentives when determining the earned incentive.
- 11. Sum of lines 7 10.
- 12. Line 7 divided by line 11. The shareholder incentive mechanism described by the New Hampshire Energy Efficiency Working Group and approved by the Commission in Order No. 23,574 includes a circular calculation. A portion of the earned shareholder incentive is related to the benefit/cost ratio. However, the shareholder incentive is supposed to be included as an EE cost in determining the benefit/cost ratio. For the purpose of calculating the shareholder incentive, the Company has calculated the planned benefit/cost ratio including the shareholder incentive for one iteration and will compare the actual benefit/cost ratio including the shareholder incentive to the planned benefit/cost ratio including shareholder incentives when determining the earned shareholder incentive.

Exhibit A: Projected Program Expenses & Savings

Northern

Unitil Gas Energy Efficiency Planned Budget, Participation, Savings New Hampshire Program Year TWO (January 1, 2012 - December 31, 2012)

Sector	BCR Activity	Internal Admin	External Admin	Rebates/ Services	Internal Impl	Marketing	Evaluation	Budget Total	Participant Goal	Lifetime MMBTU	Annual MMBTU
Residentia	ıl										
	Low Income	\$7,602	\$2,096	\$102,495	\$8,382	\$1,625	\$7,800	\$130,000	25	963	19,301
	Residential High-Efficiency Heating, Water-Heating, Controls Program	\$13,532	\$5,527	\$202,296	\$22,109	\$9,976	\$16,177	\$269,617	375	6,140	110,622
	New Home Construction with ENERGY STAR	\$4,409	\$1,672	\$58,831	\$6,688	\$3,200	\$5,200	\$80,000	19	782	14,593
	Home Performance with ENERGY STAR	\$7,043	\$2,843	\$101,592	\$11,372	\$3,375	\$8,775	\$135,000	42	1,438	32,177
	Residential Total	\$32,586	\$12,138	\$465,214	\$48,551	\$18,176	\$37,952	\$614,617	461	9,323	176,693
Commerc	ial & Industrial										
	Large C & I Retrofit Program	\$7,069	\$0	\$77,081	\$0	\$900	\$4,950	\$90,000	8	5,209	93,755
	Small Business Energy Solutions Program	\$8,230	\$1,827	\$87,169	\$7,307	\$1,118	\$6,149	\$111,800	8	4,737	85,274
	C&I High Efficiency Heating, Water-Heating, Controls Program	\$5,244	\$995	\$80,316	\$3,980	\$475	\$3,990	\$95,000	67	2,336	44,969
	Multi-Family Program	\$10,446	\$2,449	\$102,386	\$9,795	\$1,338	\$7,357	\$133,771	6	3,820	66,856
	Commercial & Industrial Total	\$30,988	\$5,271	\$346,953	\$21,082	\$3,831	\$22,446	\$430,571	89	16,102	290,854
Grand Total		\$63,574	\$17,408	\$812,166	\$69,634	\$22,007	\$60,398	\$1,045,188	550	25,425	467,547

Exhibit B: Summary of Benefits

New Hampshire Program Year TWO (January 1, 2012- December 31, 2012)

Sector Program		TRC Benefit / Cost	Benefit / Benefits Co		Total Program Costs Implementation (\$000)		Evaluation (\$000)	Shareholder Incentive (\$000)	
A - Residential		1.3	\$1,375	\$1,072	\$454	\$549	\$30	\$39	
	ENERGY STAR Homes	1.3	\$177	\$132	\$75	\$45	\$5	\$6	
A03a	Home Performance w/ES	1.2	\$273	\$221	\$126	\$75	\$9	\$11	
A04a	Res GasNetworks	1.3	\$925	\$719	\$253	\$428	\$16	\$22	
B - Low Income B03a Low Income Retrofit 1-4		1.2 1.2	\$164 \$164	\$140 \$140	\$122 \$122	\$0 \$0	\$8 \$8	\$10 \$10	
C - Commercia	l & Industrial	2.9	\$2,440	\$853	\$408	\$388	\$22	\$34	
C03a I	Large C&I Custom	4.6	\$792	\$173	\$85	\$77	\$5	\$6	
C03b	Small C&I Custom	3.5	\$721	\$208	\$106	\$87	\$6	\$9	
C03C	Multifamily	2.2	\$565	\$252	\$126	\$102	\$7	\$16	
C04a	C&I GasNetworks	1.7	\$362	\$219	\$91	\$121	\$4	\$3	
Grand Total		1.9	\$3,979	\$2,065	\$985	\$936	\$60.398	\$84	

42 15 December 2011

Northern

Exhibit D - Shareholder Incentive Page 1 of 2

Northern

Unitil Gas Energy Efficiency

Target Shareholder Incentive Year TWO- January 1, 2012 - December 31, 2012

Commercial/Industrial Incentive

1. Target Benefit/Cost Ratio	2.86
2. Threshold Benefit/Cost Ratio	1.00
3. Target lifetime MMBTU	290,854
4. Threshold MMBTU	189,055
5. Budget	\$430,571
6. CE Percentage	4.00%
7. Lifetime MMBTU Percentage	4.00%

8. Target C/I Incentive

\$51,669

\$34,446

Residential Incentive

9. Cap

10. Target Benefit/Cost Ratio	1.27
11. Threshold Benefit/Cost Ratio	1.00
12. Target lifetime MMBTU	176,693
13. Threshold MMBTU	114,850
14. Budget	\$614,617
15. CE Percentage	4.00%
16. Lifetime MMBTU Percentage	4.00%

17. Target Residential Incentive

\$49,169

18. Cap

\$73,754

19. TOTAL TARGET INCENTIVE

\$83,615

Line No. Notes:

1, 3, 5, 10, 12, and 14. See Exhibit B

2, 6, 7, 11, 15, and 16. Report to the New Hampshire Public Utilities Commission on Ratepayer-Funded Energy Efficiency Issues in New Hampshire, Docket No. DR 96-150, page 21.

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- 13. 65% of line 12.
- 17. 8% of line 14.
- 18. 12% of line 14.
- 19. Line 8 plus line 17.

Exhibit D - Shareholder Incentive Page 2 of 2

Northern

Unitil Gas Energy Efficiency Target Benefit-Cost Ratio by Sector Year TWO- January 1, 2012 - December 31, 2012

Co	mmercial & Industrial:	Planned
1.	Benefits (Value) From Eligible Programs	\$2,440,280
2.	Implementation Expenses	\$408,125
3.	Customer Contribution	\$387,649
4.	Evaluation Expense	\$22,446
5.	Shareholder Incentive	\$34,446
6.	Total Costs Including Shareholder Incentive	\$852,666
7.	Benefit/Cost Ratio - C&I Sector	2.86
8.	Implementation Plus Evaluation Expense - C&I Sector	\$430,571
Res	sidential:	
9.	Benefits (Value) From Eligible Programs	\$1,538,731
10.	Implementation Expenses	\$576,666
11.	Customer Contribution	\$548,563
12.	Evaluation Expense	\$37,952
13.	Shareholder Incentive	\$49,169
14.	Total Costs Including Shareholder Incentive	\$1,212,350
15.	Benefit/Cost Ratio - Residential Sector	1.27
16.	Implementation Plus Evaluation Expense - Residential Sector	\$614,618

Line No. Notes:

- 1 5 and 9-13. See Exhibit B.
- 5. Sum of lines 2-5.
- 6. Line 1 divided by line 6. The shareholder incentive mechanism described by the New Hampshire Energy Efficiency Working Group and approved by the Commission in Order No. 23,574 includes a circular calculation. A portion of the earned shareholder incentive is related to the benefit/cost ratio (BCR). However, the shareholder incentive is supposed to be included as an EE cost in determining the BCR. For the purpose of calculating the shareholder incentive, the Company has calculated the planned BCR including the shareholder incentive for one iteration and will compare the actual BCR including the shareholder incentive to the planned BCR including shareholder incentives when determining the earned incentive.
- 7. Sum of lines 2 and 5. These are the C&I sector funds on which the Company may calculate its earned shareholder incentive.
- 14. Sum of lines 10 13.
- 15. Line 9 divided by line 14. The shareholder incentive mechanism described by the New Hampshire Energy Efficiency Working Group and approved by the Commission in Order No. 23,574 includes a circular calculation. A portion of the earned shareholder incentive is related to the benefit/cost ratio. However, the shareholder incentive is supposed to be included as an EE cost in determining the benefit/cost ratio. For the purpose of calculating the shareholder incentive, the Company has calculated the planned benefit/cost ratio including the shareholder incentive for one iteration and will compare the actual benefit/cost ratio including the shareholder incentive to the planned benefit/cost ratio including shareholder incentives when determining the earned shareholder incentive.
- 16. Sum of lines 10 and 13. These are the Residential sector funds on which the Company may calculate its earned shareholder incentive.

National Grid Home Energy Assistance Program

				Annua	l Savings p	er Unit				Install	ation or			Total	Annual M	мвти	Total L	ifetime N	1MBTU	
		Quantity		(kWh)			Measure Life		Realization Rate		Total Lifetime Savings (kWh)			Savings			Savings			
	2010	2010	2012	2010	2010	2012	2010	2010	2012			2010	2010		2010	2010	2012	2010	2010	2012
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	2012 Plan	Plan	Actual	Plan	Plan	Actual	Plan
HEA Baseload	45	50	54	206	206	206	13	13	13	100%	100%	20	133,900	144,612						
Electric Weatherization	2	2	2	595	595	595	20	20	20	100%	100%	24	23,800	23,800						
CFLs	260	252	312	63	63	63	8	8	8	100%	100%	131	127,008	157,248						
Fixtures	41	11	49	126	126	126	20	20	20	100%	100%	103	27,720	123,480						
Replacement Refrigerator	28	33	33	1,016	1,016	1,016	19	19	19	100%	100%	541	637,032	637,032						
DHWater Measure (elec)	20	27	25	419	419	419	15	15	15	100%	100%	126	169,695	157,125						
DHWater Measure (OIL)	11	51	13	0		0	15	15	15	100%	100%	0	0		80	187	96	1,200	2,800	1,440
Tstats	7	16	8	288	288	288	10	10	10	100%	100%	20	46,080	23,040	0					
HEA Oil Wx	23	46	27	143	143	143	20	20	15	100%	100%	66	131,560		805	1,610	945	16,100	24,150	14,175
Refrigerator Removal		35			136			5		100%	100%		23,800							
Freezers		1			726			19		100%	100%		13,794							

National Grid Home Performance with ENERGY STAR® 2012 Plan (Revised 12-2-2011)

National Grid Home Performance w/Energy Star

				Annu	al Savin	gs per				Installa	ation or				То	tal Ann	ual	Total	Lifetim	e MMBTU
		Quantit	у	U	Init (kWl	h)	M	easure L	.ife	Realizat	ion Rate	Total Lif	etime Savi	ngs (kWh)	MM	BTU Sav	vings		Savin	ngs
	2010	2010	2012	2010	2010	2012	2010	2010	2012			2010	2010		2010	2010	2012	2010	2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	2012 Plan	Plan	Actual	Plan	Plan	Actual	2012 Plan
HPw/ES SF Elec	9	18	16	1,737	1,680	1,680	12	18	12	104%	104%	199,435	566,034	335,462						
HPw/ES SF Non Elec	47	16	82	880	858	858	9	8	8	104%	104%	386,471	114,240	585,362						
HPw/ES Multi Electric Heat CFL	132		826	26		64	8		5	104%	104%	28,504	0	274,893						
HPw/ES Multi Electric Heat DHWs	7		47	76		80	15		15	104%	104%	8,770	0	58,656						
HPw/ES Multi Electric Heat FIXTURES	74	216	463	334	212	334	20	20	20	104%	104%	511,314	951,933	3,216,554						
HPw/ES Multi Electric Heat REFRIG	6		35	834		319	13		13	104%	104%	62,245		150,856						

National Grid ENERGY STAR® Homes Program 2012 Plan

National Grid ENERGY STAR® Homes Program

				Annu	al Savin	gs per				In-Ser	vice /			
		Quantity	/	U	nit (kWl	h)	M	easure L	ife	Realizat	ion Rate	Total Life	time Saving	gs (kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012			2010	2010	2012
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	Plan
RNC ES Homes (Heating), All Elec, Oil	69		25	106		286	25	25	25	100.00%	100.00%	181,993	523,581	178,563
RNC ES Homes (Cooling), All units	69		25	0		20	25	25	25	100.00%	100.00%	0	165,559	12,550
RNC ES Homes (Water Heating), All E	69		25	7		32	15	15	15	100.00%	100.00%	7,133	40,368	12,026
Refrigerators	69	38	25	107	107	107	13	13	12	100.00%	100.00%	95,979	52,858	32,100
Dishwashers	4	26	3	25	25	33	12	12	10	100.00%	100.00%	1,202	7,800	1,003
Indoor Fixture	138	717	50	107	107	106	20	20	8	104.40%	100.00%	308,318	1,601,911	42,360
Screw-in Bulb	598	253	300	51	51	39	8	8	5	83.83%	100.00%	204,540	86,536	58,635
Clothes Washer	46	8	17	27	27	15	14	14	11	100.00%	100.00%	17,169	3,024	2,805

National Grid Energy Star Lighting Program

					al Saving					In-Serv	rice &			
		Quantity	<u>'</u>	U	nit (kWl	ո)	M	easure L	ife	Realization	on Rate	Total Lif	etime Savings	(kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Catalog Sales: CFLs	184	104	51	51	51	40	5	5	5	84%	84%	39,335	22,233	8,413
Catalog Sales: Interior Fixtures	69	33	29	107	107	107	20	20	8	104%	104%	154,159	73,728	25,941
Catalog Sales: Exterior Fixtures	14	1	29	107	107	107	6	6	5	109%	109%	9,622	697	16,865
Catalog Sales: Torchieres	14	6	15	215	215	120	8	8	8	108%	108%	25,677	11,164	15,059
Retail Sales: CFLs	8,280	16,036	14,210	51	51	39	5	5	5	84%	84%	1,770,054	3,428,090	2,328,337
Retail Sales: Interior Fixture	322	113	73	106	106	106	20	20	8	104%	104%	712,684	250,104	64,125
Retail Sales: Exterior Fixture	28	3	73	106	106	106	6	6	5	109%	109%	19,063	2,072	41,690
Retail Sales: Torchieres	23	0	15	215	215	104	8	8	8	108%	108%	42,796	0	13,101
Retail Sales: LEDs		0	15			47			8	95%	100%	0	0	5,475
												0	0	0
												0	0	0
												0	0	0

Planning Assumptions

In Service & Realization Rate includes spillover from Process and Impact Evaluation of the New Hampshire Residential Lighting Program, 11/9/2003, Nexus Market Research, Inc. and RLW Analytics, Inc.

Measure life was reduced to 5 years on CFLs.

Exterior Fixture measure life reduced from 15 to 5 years.

National Grid ENERGY STAR® Appliance Program

				Annu	al Savin	gs per				In-Sei	vice /			
	(Quantity	/	U	Init (kW	h)	M	easure L	.ife	Realizat	ion Rate	Total Lif	etime Savii	ngs (kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012				2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
Clothes Washer Tier 1 Electric DHW	31	32	19	98	126	126	14	14	11	100%	100%	42,887	56,448	26,334
Clothes Washer Tier 1 Gas DHW	10	10	7				14	14	11	100%	100%	0	0	0
Clothes Washer Tier 1 Oil DHW	51	53	24				14	14	11	100%	100%	0	0	0
Clothes Washer Tier 1 Electric Dryer	84	78	49	94	63	63	14	14	11	100%	100%	110,340	68,796	33,957
Clothes Washer Tier 1 Other Dryer	9	17	2				14	14	11	100%	100%	0	0	0
Clothes Washer Tier 2 Electric DHW	24	7	12	124	141	141	14	14	11	100%	100%	41,459	13,818	18,612
Clothes Washer Tier 2 Gas DHW	8	1	4				14	14	11	100%	100%	0	0	0
Clothes Washer Tier 2 Oil DHW	39	17	15				14	14	11	100%	100%	0	0	0
Clothes Washer Tier 2 Electric Dryer	64	23	31	103	84	84	14	14	11	100%	100%	92,860	27,048	28,644
Clothes Washer Tier 2 Other Dryer	6	2	1				14	14	11	100%	100%	0	0	0
Clothes Washer Tier 3 Electric DHW	126	140	84	172	200	200	14	14	11	100%	100%	303,587	392,000	184,800
Clothes Washer Tier 3 Gas DHW	41	45	30				14	14	11	100%	100%	0	0	0
Clothes Washer Tier 3 Oil DHW	203	349	105				14	14	11	100%	100%	0	0	0
Clothes Washer Tier 3 Electric Dryer	335	458	210	135	115	115	14	14	11	100%	100%	632,094	737,380	265,650
Clothes Washer Tier 3 Other Dryer	35	76	7				14	14	11	100%	100%	0	0	0
Room AC	46	165	85	26	18	20	13	13	9	100%	100%	15,548	39,275	15,002
Smart Strip	46	88	85	175	175	57	5	5	5	75%	100%	30,188	57,750	24,225
Ref Frez recycle			80			413			8		100%			264,320
Air Cleaner			25			58			9		100%			13,050
Refrigerator Rebate			300			107			12		100%			385,200

Planning Assumptions

CW savings assumptions based on actual CWs rebated in 2010 for savings over federal standard. Room AC savings based on actual 2010 room Acs rebated for savings over federal standard. Smart strip savings based on ECOS consulting presentation.

C&I New Equipment & Construction Program National Grid 2012 Plan

National Grid C&I New Equipment & Construction Program

										2010 pla	an values	2012 pla	an values
	Total Lifet	time Savin	gs (MWh)	Rek	oate Split	: (\$)		Incentive (\$)		on tw	st based o-year of costs	on tw	st based o-year of costs
		2010		2010	2010	2012							
	2010 Plan	Actual	2012 Plan	Plan	Actual	Plan	2010 Plan	2010 Actual	2012 Plan	\$/kW Yr	\$/LMWh	\$/kW Yr	\$/LMWh
CAIR	754	1,648	1,576	15.3%		18.3%	\$11,459	\$26,466	\$26,833	\$59	\$14.69	\$61.73	\$17.14
Cool Choice	240	871	517	6.4%		7.0%	\$4,828	\$15,345	\$10,271	\$36	\$20.08	\$36.16	\$19.49
CUSTA	2,578	1,250	4,773	58.2%		51.7%	\$43,653	53218.25	\$75,860	\$84	\$16.21	\$80.31	\$15.77
LIGHT	743	11,930	1,658	16.6%		18.8%	\$12,429	\$68,455	\$27,530	\$61	\$16.35	\$63.74	\$17.17
VSD	273		581	3.5%		3.5%	\$2,632		\$5,183	\$43	\$8.56	\$45.14	\$8.99
Motors		340		•				\$2,757				·	
TOTAL	4,588		9,105	100.0%		100.0%	\$75,000	\$163,484	\$145,676			·	

National Grid Large C&I Retrofit Program 2012 Plan

National Grid Large C&I Retrofit Program

										2010 pla	n values	2012 pla	n values
										Plan cost	based on	Plan cost	based on
										two-year a	verage of	two-year a	average of
			4							cos	sts	CO	sts
	Total Lit	fetime Savings	s (MWh)	Rel	oate Split	(\$)		ncentive (\$)					
				2010	2010	2012		2010					
	2010 Plan	2010 Actual	2012 Plan	Plan	Actual	Plan	2010 Plan	Actual	2012 Plan	\$/kW Yr	\$/LMWh	\$/kW Yr	\$/LMWh
CAIR	1,400		515	5.3%		3.0%	\$21,256	\$9,725	\$9,854	\$101.05	\$15.19	\$111.58	\$19.12
CUSTA	9,648	1,035	6,600	36.9%		31.6%	\$147,177		\$102,496	\$175.62	\$15.62	\$173.49	\$15.87
LIGHT	36,753	38,693	31,625	56.0%		64.0%	\$223,527	284575	\$207,678	\$31.91	\$6.30	\$35.78	\$6.77
VSD	2,525	3,099	796	1.8%		1.4%	\$7,039	\$17,050	\$4,657	\$23.71	\$2.79	\$24.90	\$5.85
TOTAL	50,325	42,827	39,537	100.0%		100.0%	\$398,999	\$311,350	\$324,684				

National Grid Small Business Energy Solutions Program 2012 Plan

National Grid Small Business Energy Solutions Program

Small Business Energy Solutions

	To	tal Incentiv	es	Total Life	time Saving	gs (MWh)	2010 pla	n values	2012 pla	n values
		2010			2010			based on	Plan cost	
	2010 Plan	Actual	2012 Plan	2010 Plan	Actual	2012 Plan	two-year a	average of	two-year a	average of
							\$/kW Yr	\$/LMWh	\$/kW Yr	\$/LMWh
SBS	\$200,000	\$131,321	\$195,606	5,992	2,983	7,843	\$151.26	\$34.57	\$137.87	\$31.06

NHEC Home Energy Assistance 2012 Plan

	(Quantity	/	Annual	Savings (kWh)	per Unit	M	easure L	ife	Installa Realizat		Total Life	time Savin	gs (kWh)	Total /	Annual M Savings		Total	Lifetime N Savings	_
Measure	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Dlan	2010	2012	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan
HEA - ELECTRIC	Pidii	Actual	Pidii	Pidii	Actual	Pidii	Pidii	Actual	Pidii	2010	2012	ZUIU Piali	Actual	ZUIZ PIdII	Pidii	Actual	Pidii	Pidii	Actual	Pidii
Airsealing	25	21		462.0	151.0		25	25		88.80%	88.80%	256,410	70,396	0						
Insulation	22	17		442.0	296.0		25	25		88.80%	88.80%	215,873	111,710							
Hot Water	21	54		335.0	356.0		7	7		88.80%	88.80%	43,730	119,496							
Refrigerators	15	43		830.0	794.0		19	19		88.80%	88.80%	210,056	576,044	0						
CFL	25	60		296.0	428.0		8	8		88.80%	88.80%	52,570	182,431	0						
Fixtures	10	14		203.0	253.0		6	6		88.8070	00.0070	02,370	102,431	0						
Thermostats	10	7		474.0	292.0		10	10		88.80%	88.80%	42,091	18,151	0						
	10	,		474.0	232.0		10	10		00.0070	00.0070	42,031	10,131	J						
Baseload																				
Hot Water	37			166.0			7.0	7.0		88.80%	88.80%	38,179	0	0						
CFL	35			384.0			8.0	8.0		88.80%	88.80%	95,478	0	0						
Fixtures	2			105.0			6.0	6.0		88.80%	88.80%	1,119	0	0						
Refrigerators	21			760.0			17.0	17.0		88.80%	88.80%	240,932	0	0						
Fossil Fuel Savings	37	70					25.0	25.0		88.80%	88.80%				24.24	27.17		19,911	42,222	
Average Home			61			1,360.0			12.0	88.80%	88.80%	0	0	884,022			22.87	0	0	14,866

NHEC Home Performance with ENERGY STAR® 2012 Plan (Revised 12-2-2011)

				Annual	Savings p	per Unit				Installa	tion or				То	tal Annı	ıal	Total I	Lifetime	MMBTU
	1	Quantity	1		(kWh)		Me	easure Li	ife	Realizat	ion Rate	Total Li	fetime Saving	s (kWh)	MM	BTU Sav	ings		Saving	s
	2010	2010	2012	2010	2010	2012	2010	2010	2012						2010	2010	2012	2010	2010	2012
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan	Plan	Actual	Plan	Plan	Actual	Plan
HES - ELECTRIC																				
Airsealing	26			1,661			15.0			100.00%	100.00%	647,790	0	0						
Insulation	25			3,300			25.0			100.00%	100.00%	2,062,500	0	0						
Hot Water	26			1,135			7.0			100.00%	100.00%	206,570	0	0						
Thermostats	8			1,946			10.0			100.00%	100.00%	155,680	0	0						
CFLs	22			365			8.0			100.00%	100.00%	64,240	0	0						
Fossil Fuel Savings	31	27								100.00%	100.00%				7.21	0.00		224	0	
Average Electric Home		27	59		5,808	5,787		16	16	100.00%	100.00%	0	2,509,056	5,474,363						

NHEC ENERGY STAR® Homes Program 2012 Plan

				Annua	Savings p	er Unit				In-Sei	vice /			
		Quantity	1		(kWh)		M	easure L	ife	Realizat	ion Rate	Total Life	etime Savir	ngs (kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012				2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
Heating	31	29		41.00	487.86		25.0	25.0		100.00%	100.00%	31,775	353,700	0
Cooling	31	29		106.90	81.03		12.0	12.0		100.00%	100.00%	39,767	28,200	0
Liquid Propane Heated Homes			34			506.00	25	25	25	100.00%	100.00%	0	0	430,100
GSHP Heated Homes			23			0.00	25	25	25	100.00%	100.00%	0	0	0
ES Thermostats	31			0.00	0.00	0.00	12	12	12	100.00%	100.00%	0	0	0
ES Central AC			34	0.00	0.00	263.00	14	14	14	100.00%	100.00%	0	0	125,188
ES Clothes Washer	24	17	40	119.00	119.00	223.00	14	14	11	100.00%	100.00%	39,984	28,322	98,120
ES Dishwasher	31	27	57	43.00	43.00	33.00	11	11	10	100.00%	100.00%	14,663	12,771	18,810
ES Refrigerator	27	28	49	85.00	85.00	107.00	13	13	12	100.00%	100.00%	29,835	30,940	62,916
ES Light Fixture	31	148	57	106.00	106.00	105.86	20	20	20	100.00%	100.00%	65,720	313,760	120,677
ES CFL Lights	183	56	343	50.80	50.80	39.09	8	8	5	80.30%	80.30%	59,720	18,275	53,835

NHEC ENERGY STAR® Lighting Program 2012 Plan

				Annua	Savings	er Unit				In-Service &	Realization			
		Quantity			(kWh)		М	easure L	.ife	Ra	ite	Total Lif	etime Saving	s (kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Catalog Sales: CFLs	505	711	908	51.61	51.61	39.55	8	8	5	80.30%	80.30%	167,413	235,705	144,189
Retail Sales: CFLs	23,723	3,898	4,499	50.63	50.63	39.09	5	5	5	80.30%	80.30%	4,822,665	792,427	706,129
Retail Sales: CFL Multipacks		13,846	33,152		50.63	39.09		5	5	80.30%	80.30%	0	2,814,763	5,203,285
Retail Sales: Interior Fixture	757	221	395	107.10	107.10	105.86	8	8	8	96.40%	96.40%	625,248	182,536	322,467
Retail Sales: Exterior Fixture	252	10	118	107.10	107.10	105.86	15	15	5	100.00%	100.00%	404,838	16,065	62,456
Retail Sales: Torchieres		4			104.37			8		93.50%	93.50%	0	3,123	0
Retail Sales: LEDs			395			47.03			20	95.00%	95.00%	0	0	352,989

NHEC ENERGY STAR® Appliance Program 2012 Plan

				Annual	Savings p	er Unit				In-Ser	vice /			
	1	Quantity	/		(kWh)		M	easure L	ife	Realizat	ion Rate	Total Li	fetime Saving	gs (kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Energy Star Clothes Washer	719	723	823	151.00	151.00	223.00	14	14	11	100.00%	100.00%	1,519,966	1,528,422	2,018,828
Energy Star Room A/C	300	278	191	26.00	26.00	16.16	9	9	9	100.00%	100.00%	70,200	65,052	27,773
Smartstrip Power Strip	180	31	57	175.20	175.20	75.04	5	5	5	100.00%	100.00%	157,680	27,156	21,386
Energy Star Refrigerator			574			107.00			12	100.00%	100.00%	0	0	737,016
Energy Star Room Air Cleaners & Purifiers			19			268.00			9	100.00%	100.00%	0	0	45,828
2nd Refrigerator/Freezer Pickup			249			413.00			8	100.00%	100.00%	0	0	822,696

NHEC High Efficiency Heat Pump Program 2012 Plan

				Annual	Savings p	er Unit				In-Ser	vice or			
		Quantity	/		(kWh)		M	easure L	ife	Realizat	ion Rate	Total L	ifetime Saving	s (kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
GSHP (Heating)	14	8	20	20,554	20,895	18,232	25	25	25	100.00%	100.00%	7,193,900	4,179,000	9,116,000
GSHP (Cooling)	14	8	20	458	122	286	25	25	25	100.00%	100.00%	160,300	24,400	143,000
GSHP (Hot Water)	14	8	20	2,238	929	1,811	25	25	25	100.00%	100.00%	783,300	185,800	905,500

NHEC C&I New Equipment & Construction Program 2012 Plan

		Quantity	ı	Annual	Savings pe	er Unit	М	easure L	ife	In-Serv Realization		Total Life	etime Savings	(kWh)
	2010	2010	2012		2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	2010 Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Snowmaking	5			187,585			15			100.0%		14,068,875	0	0
HVAC		1	10		384	3,432		15		100.0%	100.0%	0	5,760	34,320
Lighting	9	3	14	29,460	3,739	16,349	15	15		100.0%	100.0%	3,977,100	168,255	228,886
VFD		1	5		32,407	19,807		15	15	100.0%	100.0%	0	486,105	99,035
Compressed Air			3			5,992			15		100.0%	0	0	269,640

NHEC Large C&I Retrofit Program 2012 Plan

				Annual Savings per Unit (kWh)						In-Serv	ice or			
	(Quantity	1	Annual S	avings per	Unit (kWh)	M	easure L	ife	Realizat	on Rate	Total Li	ifetime Saving	s (kWh)
	2010	2010	2012	2010	2010		2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	2012 Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Lighting	12	3	17	29,702	42,727	21,720	13	13	13	89.0%	89.0%	4,123,826	1,483,054	4,272,107
Motors		1			64,912			13		89.0%	89.0%	0	751,032	0
VFD	4			44,780			13			89.0%	89.0%	2,072,418	0	0
Process			5			20,677			13		89.0%			1,196,164
Snowmaking		1	1		500,000	321,194		13	13	89.0%	89.0%	0	5,785,000	3,716,215

NHEC Small Business Energy Solutions 2012 Plan

		Quantity	1	Annual	Savings p	er Unit	M	easure L	ife	In-Serv Installati		Total L	ifetime Saving	gs (kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Lighting	22	5	28	4,273	12,505	11,042	13	13	13	98.70%	98.70%	1,206,191	802,258	3,967,037
Refrigeration	5	1	2	22,555	20,569	20,357	13	13	13	98.70%	98.70%	1,447,016	263,921	522,401
Lighting Catalog		5			2,122		8	8	8	98.70%	98.70%	0	83,777	0
Insulation		1			4,303		13	13	13	98.70%	98.70%	0	55,212	0
VFD		1	1		35,870	20,677	13	13	13	98.70%	98.70%	0	0	0

PSNH Home Energy Assistance Program

				Annual	Savings p	er Unit				Installa	tion or				Tota	l Annual MM	BTU	Total	Lifetime	MMBTU
		Quantity	y		(kWh)		N	/leasure	Life	Realizati	on Rate	Total Lif	etime Savings	(kWh)		Savings			Saving	s
	2010	2010	2012	2010	2010	2012	2010	2010	2012						2010		2012	2010	2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan	Plan	2010 Actual	Plan	Plan	Actual	2012 Plan
Weatherization - Kerosene Heated		144	111.0					20.88	20.88	86.20%	86.20%	0	0	0		25.26	15.00	0	65,849	29,967
Weatherization - LP Heated	179.1	73	59.2				18.0	19.33	19.33	86.20%	86.20%	0	0	0	8.62	21.82	15.00	23,948	26,090	14,796
Weatherization - NG Heated	286.7	289	229.4				14.0	17.20	17.20	86.20%	86.20%	0	0	0	14.65	26.26	15.00	50,703	111,199	51,017
Weatherization - Oil Heated	350.4	418	325.6				19.0	18.91	18.91	86.20%	86.20%	0	0	0	18.96	28.24	15.00	108,838	193,339	79,610
Weatherization - Wood Heated		15	14.8					20.33	20.30	86.20%	86.20%	0	0	0		29.61	15.00	0	7,657	3,885
Weatherization - Baseload		74			1,530.5			14.82	14.82	86.20%	86.20%	0	1,446,460	0		-0.02		0	-20	0
Weatherizaton - Electric Heat		21	20.0		3,187.2	3,187.0		17.43	17.43	86.20%	86.20%	0	1,005,566	957,672				0	0	0
Electric Savings for Fossil Heated Homes	816.2	939	740.0	1,250.0	1,117.1	1,117.0	13.0	13.35	13.35	86.20%	86.20%	11,432,655	12,075,923	9,511,865						

Planning Assumptions

^{1.} MMBTU savings for 2012 only include savings resulting from SBC funded weatherization, projected to be 15 MMBTUs per home (WAP/ARRA collaboration funding is expected to pay for other additional MMBTU Savings).

PSNH Home Performance with ENERGY STAR®

			Annual Savings per Unit (kWh)						ation or				_	tal Annu	-	Total	Lifetime N	_		
		Quantity						easure L		Realizat	tion Rate	Total Life	etime Savings	s (kWh)		BTU Sav	_		Savings	
		2010	2012	2010	2010	2012	2010		2012						2010			2010	2010	2012
Measure	2010 Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan	Plan	Actual	Plan	Plan	Actual	Plan
HES - ELECTRIC																				
Weatherizaton-Baseload: Electric Heat/Lighting		7			7,024.2			14.4		96.67%	100.00%	0	683,348	0				0	0	0
Weatherizaton-Baseload: LP Heat/Lighting		1			9,681.3			15.2		96.67%	100.00%	0	142,525	0				0	0	0
Weatherizaton-Baseload: Oil Heat/Lighting	114.2	1		1,056.0	420.6		13.7	8.0		96.67%	100.00%	1,597,248	3,253	0	4.10			6,201	0	0
Weatherizaton-Baseload: Electric Savings	1,717.6	1,404		268.1	512.4		7.0	12.3		96.67%	100.00%	3,115,596	8,567,727	0				0	0	0
Weathization-HVAC: Electric/Wood Heat		7						18.6		96.67%	100.00%	0	0	0		10.63		0	1,367	0
Weatherization-HVAC: LP Heat		1						15.5		96.67%	100.00%	0	0	0		13.70		0	199	0
Weatherization-HVAC: Oil Heat		1						23.9		96.67%	100.00%	0	0	0		93.50		0	2,169	0
Weatherization-HVAC: Elecw/LP Backup		1,404						4.0		96.67%	100.00%	0	0	0		0.02				
Electric Baseload: Single Family			51.3			186.3			5.0	96.67%	100.00%	0	0	47,773						
Electric Baseload: Multi-Family			402.7			186.3			5.0	96.67%	100.00%	0	0	375,000						
												0	0	0						
FUEL-NEUTRAL PILOT ELECTRIC SAVINGS												0	0	0						
Pilot Wxn - Electric Heat Savings		4			9,638.0			14.6		96.67%	100.00%	0	545,857	0				0	0	0
Fuel Neutral Pilot (Kerosene)		1			315.5			8.0		96.67%	100.00%	0	2,440	0				0	0	0
Fuel Neutral Pilot (LP)		36			578.9			11.6		96.67%	100.00%	0	233,598	0				0	0	0
Fuel Neutral Pilot (Gas)		6			177.3			9.8		96.67%	100.00%	0	10,072	0				0	0	0
Fuel Neutral Pilot (Oil)		208			443.0			8.9		96.67%	100.00%	0	795,098	0				0	0	0
Fuel Neutral Pilot (Wood)		1			5,216.3			16.3		96.67%	100.00%	0	82,428	0				0	0	0
Fuel Neutral Pilot (ElecBaseload)		43			946.0			12.6		96.67%	100.00%	0	495,855	0				0	0	0
, , , , , , , , , , , , , , , , , , , ,												0	0	0				0	0	0
FUEL NEUTRAL HPWES												0	0	0				0	0	0
SF, Electric, CFLs			562.185			186.3			5.0	96.67%	100.00%	0	0	523,561						-
Wxn Electrically Heated Homes			5.62			6,533.8			14.6	96.67%	100.00%	0	0	536,291						
Wxn Kerosene Heated Homes		1	11.2437		0.0	-,		16.91	16.9	96.67%	100.00%	0	0	0		8 89	22.30	0	146	4,239
Wxn LP Heated Homes		36	112.437		0.0			21.15	21.2	96.67%	100.00%	0	0	0			22.30	0	18,401	53,031
Wxn Gas Heated Homes		6	16.8655		0.0			20.19	20.2	96.67%	100.00%	0	0	0			22.30	0	3,499	7,595
Wxn Oil Heated Homes	287.9657	208	314.824	373.8	0.0		13.7		21.0	96.67%	100.00%	1,425,582	0	0	17.03			64 965	152,406	147,238
Wxn Wood Heated Homes	_33037	299	101.193	3.3.0	0.0			21.62	21.6	96.67%	100.00%	1, 123,302	n	n	17.00		22.30	0.,555	28,923	48,793
Pilot - Fossil - Audits & CFLs	200.0	0	101.133	268.1	3.0		8.0	02		96.67%	100.00%	414,614	n	n		1.55	50	n	0	.5,755
Pilot - Heating System Replacements	20.0	0	20	200.1		0.0	20.0	20.0	20.0	96.67%	100.00%	11-,514	0	0			11.36	0	0	4,544
	20.0	Ĭ				0.0		20.0		20.0770	_00.0070		Ü					Ü		.,5 .4

Planning Assumptions

^{1.} For CFL savings, we assumed EISA was fully in place for 2012 and our contractors installed 6 CFLs per home audited/weatherized (2.7 hrs/day x 365 days/year x (49.9-18.4)/1,000) x 6 = 186.3 kWhs/year.

^{2.} Plan to audit and install electric measures (Light Fixtures, CFLs, and Refrigerator Replacement) at 51 SF and 403 MF homes, and provide weatherization & electric measures at 475 fuel neutral homes. Used average energy savings from the 2011 Cadmus Impact Evaluation, Table 16, page 30.

PSNH ENERGY STAR® Homes Program

				Annua	l Savings	per Unit				In-Se	rvice /			
		Quantity			(kWh)		М	easure L	ife	Realizat	ion Rate	Total L	ifetime Saving	gs (kWh)
	2010	2010	2012	2010	2010		2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	2012 Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Oil Heated Homes	87.5	6.0	19.2	40.0	136.0	519.8	25	25	25	100.00%	100.00%	87,475	20,400	249,747
Natural Gas Heated Homes	192.4	92.0	211.4	40.0	347.5	481.5	25	25	25	100.00%	100.00%	192,445	799,250	2,544,606
Liquid Propane Heated Homes	70.0	111.0	134.5	40.0	682.0	506.0	25	25	25	100.00%	100.00%	69,980	1,892,550	1,701,754
Wood Heated Homes		4.0			694.5		25	25	25	100.00%	100.00%	0	69,450	0
Electric Baseboard Heated Home		114.0	19.2		4,857.5	3,077.0	25	25	25	100.00%	100.00%	0	13,843,875	1,478,345
ASHP Heated Home		41.0			5,375.2	1,600.0	25	25	25	100.00%	100.00%	0	5,509,580	0
GSHP Heated Homes		41.0			5,311.8		25	25	25	100.00%	100.00%	0	5,444,595	0
GSHP/NG Heated Homes		34.0			2,203.5		25	25	25	100.00%	100.00%	0	1,872,975	0
ES Thermostats	87.5	304.0	288.3		0.0	0.0	12	12	12	100.00%	100.00%	0	0	0
ES Room AC		0.0	0.0	37.0	0.0	16.2	12	12	9	100.00%	100.00%	0	0	0
ES Central AC			0.0	1,108.0	0.0	263.0	14	14	14	100.00%	100.00%	0	0	0
ES Clothes Washer	52.5	94.0	57.7	118.7	118.7	223.0	14	14	11	100.00%	100.00%	87,197	156,170	141,426
ES Dishwasher	140.0	358.0	230.6	43.1	43.1	33.0	12	12	10	100.00%	100.00%	72,387	185,158	76,103
ES Refrigerator	209.9	393.0	307.5	84.9	84.9	106.0	13	13	12	100.00%	100.00%	231,602	433,550	391,125
ES Light Fixture	1,050	2,400	1,153	105.9	105.9	105.9	20	20	20	100.00%	100.00%	2,222,367	5,081,150	2,441,239
ES CFL Lights	3,499	5,594	3,844	50.6	50.6	39.1	8	8	5	80.30%	80.30%	1,138,102	1,819,533	603,262

Planning Assumptions

- 1. Planned participation 384 homes. Expect a fewer number of electric heated homes (multi-family) than in 2010) (The 2010 Air Source Heat Pumps were the result of a large development that will have been completed in 2011.)
- 2. Appliance Measure Life Changes
 - > ES Room AC reduced from 12 to 8 years.

> Dishwasher reduced form 12 to 10 years.

> Clothes Washer reduced from 14 to 11 years.

> Refrigerator reduced form 13 to 12 years.

- 3. Lighting Changes: Measure life was reduced.
 - > CFL reduced from 8 to 5 years (Eg. 6500 hour bulb / 3.44 hours/day = 5.18 years)
 - > Annual kWH Savings reduced due to the new standards from the Energy Independence & Securities Act that reduces base bulb wattage between 2012-2014.

PSNH ENERGY STAR® Lighting Program

				Annua	l Savings	per Unit				In-Serv	rice &			
		Quantity			(kWh)		M	easure L	.ife	Realizati	on Rate	Total Lif	etime Savings	(kWh)
		2010		2010	2010	2012	2010	2010	2012					
Measure	2010 Plan	Actual	2012 Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Catalog Sales: CFLs	3,651	4,996	3,851	51.6	51.61	39.55	8	8	5	80.30%	80.30%	1,210,455	1,656,232	611,479
Catalog Sales: Interior Fixtures	340	2,159	1,685	107.1	107.10	107.10	8	8	8	96.40%	96.40%	280,549	1,783,282	1,392,158
Catalog Sales: Exterior Fixtures	170	256	194	107.1	107.10	107.10	15	15	5	100.00%	100.00%	272,837	411,274	104,145
Catalog Sales: Torchieres	42	46	39	120.0	119.98	119.98	8	8	8	93.50%	93.50%	38,102	41,281	34,905
Catalog Sales: LED Fixtures			65			47.03			20	95.00%	95.00%			57,931
Catalog Sales: LEDs	42	0	648	47.2	47.16	47.03	22	22	20	95.00%	95.00%	41,846	0	579,312
Retail Sales: CFLs	95,408	3,804	3,355	50.6	50.63	39.09	5	5	5	80.30%	80.30%	19,395,647	773,318	526,534
Retail Sales: CFL Multipacks	137,278	295,623	210,036	50.6	50.63	39.09	5	5	5	80.30%	80.30%	27,907,405	60,097,404	32,965,588
Retail Sales: Interior Fixture	4,118	993	583	105.9	105.86	105.86	8	8	8	96.40%	96.40%	3,362,103	810,657	476,298
Retail Sales: Exterior Fixture	1,373	176	117	105.9	105.86	105.86	15	15	5	100.00%	100.00%	2,179,787	279,463	61,761
Retail Sales: Torchieres	1,373	6	29	104.4	104.37	104.37	8	8	8	93.50%	93.50%	1,071,733	4,684	22,774
Retail Sales: LED Fixtures			583			47.03			20	95.00%	95.00%			521,381
Retail Sales: LEDs	686	0	1,167	47.2	47.16	47.03	22	22	20	95.00%	95.00%	676,509	0	1,042,762

Planning Assumptions

- 1. Assumed the Energy Indepence and Security Act of 2007 was <u>fully</u> in place in 2012 (e.g., Used 72W halogen as base rather than 100W incandescent) This reduces the kWH savings for all CFLs the largest rebated product by nearly 1/3.
- 2. Measure life was reduced to 5 years on CFLs and Exterior Fixtures, further reducing the savings.

PSNH ENERGY STAR® Appliance Program

				Annua	Savings	per Unit				In-Sei	rvice /			
		Quantity	1		(kWh)		M	easure L	.ife	Realizat	ion Rate	Total Li	fetime Savings	(kWh)
	2010	2010		2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	2012 Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Energy Star Clothes Washer	4,131.2	10,270.0	4,824.2	223.01	223.01	223.00	14	14	11	100.00%	100.00%	12,897,846	32,063,659	11,833,821
Energy Star Room A/C	5,651.6	2,662.0	3,308.0	26.00	26.00	16.16	9	9	9	100.00%	100.00%	1,322,472	622,908	481,014
Smartstrip Power Strip	407.6	820.0	1,102.7	175.20	175.20	75.04	5	5	5	100.00%	100.00%	357,071	718,320	413,746
Energy Star Dishwasher			0.0			33.00			10	100.00%	100.00%	0	0	0
Energy Star Refrigerator			3,445.9			106.00			12	100.00%	100.00%	0	0	4,383,133
Energy Star Room Air Cleaners & Purifiers			137.8			268.00			9	100.00%	100.00%	0	0	332,456
2nd Refrigerator/Freezer Pickup			964.8			413.00			8	100.00%	100.00%	0	0	3,187,831
Energy Star Dehumidifiers						213.00			12	100.00%	100.00%	0	0	0
Energy Star Water Coolers						361.00			10	100.00%	100.00%	0	0	0
												0	0	0
												0	0	0
												0	0	0

Planning Assumptions

- 1. Measure lives for clothes washers and room air conditioner has been lowered by more than 20% per EnergyStar calculators.
- 2. Rebate level for clother washers reduced from \$50 to \$30 is expected to result in a lower number of rebates processed.
- 3. Room air conditioner annual energy savings was reduced per a recent evaluation.
- 4. Smart Power Strips annual energy savings were reduced as well.
- 5. Will include rebates for these 3 appliances (Refrigerators, Room Air Cleaners, 2nd Refrigerator/Freezer pickup).

PSNH C&I New Equipment & Construction Program 2012 Plan

PSNH C&I New Equipment & Construction Program

										In-Serv	ice or			
		Quantity	1	Annual Sa	avings per U	nit (kWh)	M	leasure L	ife	Realizati	on Rate	Total	Lifetime Saving	s (kWh)
	2010	2010	2012		2010		2010	2010	2012					
Measure	Plan	Actual	Plan	2010 Plan	Actual	2012 Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Lighting	48.8	22.0	21.8	42,000.0	59,614.5	59,615.0	13.0	15.0	15.0	92.5%	92.5%	24,633,875	18,197,326	18,001,326
Process	86.2	40.0	29.0	35,000.0	78,123.5	78,123.0	13.0	15.9	15.9	92.5%	92.5%	36,266,538	45,951,360	33,346,123
Cooling	38.5	60.0	43.6	24,000.0	53,314.5	53,314.5	15.0	15.8	15.8	92.5%	92.5%	12,825,058	46,763,321	34,000,641
Heating		3.0			95,819.3	48,790.0		11.9	15.0	92.5%	92.5%	0	3,161,535	0
Other		4.0			105,100.0			16.2		92.5%	92.5%	0	6,281,028	0
										92.5%	92.5%	0	0	0
										92.5%	92.5%	0	0	0

Planning Assumptions

PSNH Large C&I Retrofit Program

				Annua	l Savings p	er Unit				In-Serv	ice or			
		Quantity			(kWh)		М	easure L	ife	Realizat	on Rate	Total Lif	fetime Savings	(kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
						0.85								
Lighting	121.2	65.0	46.5	70,000	108,354	91,962	12.2	12.7	12.7	94.0%	94.0%	97,294,529	83,751,080	51,030,709
Process	49.5	35.0	29.5	60,000	154,416	85,195	13.0	13.4	13.4	94.0%	94.0%	36,259,577	68,259,744	31,725,812
Cooling	12.7	18.0	15.4	50,000	74,299	74,299	12.3	12.8	12.8	94.0%	94.0%	7,300,786	16,082,832	13,727,971
Lighting - LED	28.3	6.0	4.0	17,400	72,862	72,862	13.0	13.0	13.0	94.0%	94.0%	6,016,984	5,342,242	3,564,701
Lighting - Occ Sensors o	nly	4.0	5.9		28,951	28,951		10.0	9.0	94.0%	94.0%	0	1,088,558	1,435,380
Heating		3.0			97,761	0		13.1	13.0	94.0%	94.0%	0	3,618,793	0
Other		3.0			38,205			14.3	13.0	94.0%	94.0%	0	1,545,341	0

Planning Assumptions

Process Annual Savings in 2010 had 4 outlier projects that drove the average higher. Corrected for this in the 2012 Plan. Lighting savings adjusted for more T8 -> HPT8 retrofits (resulting in lower savings)

Need to explain why total savings is going down for 2012 (increase in Audit \$, more INIMP)

- 1. From prior Staff Response (Q-STAFF-042): The lower planned lifetime kWh savings are the result of lower assumed savings associated with cooling and process measures, and an increase in the average lighting rebate which results in fewer projects.
- 2. The 2009 GDS Technical Potential Study highlighted the following Maximum Achievable/Cost Effective measures by enduse: lighting, refrigeration, HVAC controls, lighting controls, and ventilation. All of these non lighting measures, while cost effective, will be more expensive to implement and yield less savings than the typical lighting measures.
- 3. In 2009, PSNH reallocated technical assistance funds and applied it to rebates for additional customer projects.
- 4. The Lifetime kWh Savings per Lighting Project for 2011 Plan is planned to be between 2009 Plan and 2009 Actuals, higher than 2009 Actuals despite the measure life going down.
- 5. Lower annual energy savings are being seen in Cooling and Process projects and has incorporated for this in the plan.

PSNH Small Business Energy Solutions

				Annual	Savings p	er Unit				In-Serv	ice or			
		Quantity	,		(kWh)		M	easure L	ife	Installati	ion Rate	Total Lif	fetime Savings	(kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2011	2010 Plan	2010 Actual	2012 Plan
Lighting	464.9	530.0	448.0	14,550	14,704	17,000	13.5	12.8	13.1	92.90%	92.90%	84,843,464	92,769,481	92,827,665
Lighting - Catalog Sale	es	134.0	534.2		440	440		5.4	5.4	92.90%	92.90%	0	297,986	1,179,172
SmartStrips		14.0	64.6		113	113		5.0	5.0	92.90%	92.90%	0	7,320	33,891

2012 Planning Assumptions

- 1. PSNH has seen the annual kWhs per job going down in recent years. For 2012, we expect this to be offset by larger projects associated with expanding this program to customers in the in the 100-200 kW range.
- 2. We are updating the catalog with some lighting products, such as MR16 replacements, to assist customers like Inns, Restaurants, Barbershops/Salons, etc. to assist them with do-it-yourself retrofits. This is expected to result in more catalog sales.
- 3. The utilities will be watching the impact the increased cost of Phosphurs has on customer projects.

PSNH Company Specific Programs

- A. Energy Star Homes Geothermal
- B. Energy Rewards RFP Program

				Annual Savings per Unit						In-Service o	r Realization				
	Quantity			(kWh)			Measure Life				ite	Total Lifetime Savings (kWh)			
	2010 2010 2012		2012	2010 2010		2012	2010	2010 2012							
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan	
A. GSHP (Heating)			52			21,499	25	25	25	100.00%	100.00%	0	0	27,772,054	
A. GSHP (Cooling)			52			158	25	25	25	100.00%	100.00%	0	0	204,356	
A. GSHP (Hot Water)			52			1,155	25	25	25	100.00%	100.00%	0	0	1,491,458	
A. GSHP (Lights & Appliances)			52			-177	25	25	25	100.00%	100.00%	0	0	-228,065	
A. GSHP (HVAC: All-in-1)	31	53		21,135	25,510		25	25	25	100.00%	100.00%	16,431,406	33,800,300	0	
A. ASHP (Heating)			15			9,671	25	25	25	100.00%	100.00%	0	0	3,513,615	
A. ASHP (Cooling)			15			71	25	25	25	100.00%	100.00%	0	0	25,864	
A. ASHP (Hot Water)			15			520	25	25	25	100.00%	100.00%	0	0	188,763	
A. ASHP (Lights & Appliances)			15			-79	25	25	25	100.00%	100.00%	0	0	-28,865	
A. ASHP (HVAC: All-in-1)	17	1		9,511	18,344		25	25	25	100.00%	100.00%	4,159,200	458,600	0	
A. Split Sys HP (Heating)			0			9,671	25	25	25	100.00%	100.00%	0	0	0	
A. Split Sys HP (Cooling)			0			71	25	25	25	100.00%	100.00%	0	0	0	
A. Split Sys HP (Hot Water)			0			520	25	25	25	100.00%	100.00%	0	0	0	
A. Split Sys HP (Lights & Appliances)			0			-79	25	25	25	100.00%	100.00%	0	0	0	
B. C&I RFP: Lighting	2	1	2.5	400,000	769,917	392,000	13	13	13.0	100.00%	100.00%	10,400,000	10,008,921	12,623,686	
B. C&I RFP: Process	5	6	5.2	280,000	143,841	212,000	12	13	11.5	100.00%	100.00%	16,800,000	11,219,611	12,663,160	
B. C&I RFP: Cooling	3	1	2.4	28,000	224,527	197,000	10	10	10.5	100.00%	100.00%	840,000	2,245,270	4,897,976	
B. C&I RFP: Heating		3	0.0		74,513			10		100.00%	100.00%	0	2,232,407	0	
B. C&I RFP: Lighting (Occ Senso	rs Onl	1	0.0		107,001	30,767		10	10	100.00%	100.00%	0	1,070,010	0	

Planning Assumptions

A. Energy Star Homes - Geothermal & Air Source Heat Pump

- 1. GSHP = Ground Source (Geothermal) Heat Pump; ASHP = Air Source Heat Pump; Split System Heat Pump (ex. Mitsubishi "Mr. Slim")
- 2. Home Energy Raters incorporating a new Heat Pump COP calculation for the rated home to more accurately account for pumping power requirements. This will reduce savings by 8%.
- 3. The User Defined Reference Home for New Hampshire continues to be updated to reflect code changes. Revisions will include a change to the efficiency of the reference heating system efficiency, resulting in a 5% reduction in savings.
- 4. Planning for additional homes to have Air Source Heat Pumps installed in 2012 due to their cold climate heating improvements. (Some may choose to go through the ENERGY STAR Homes program.)

B. C&I RFP Program

1. PSNH estimated smaller Lighting and Cooling projects and larger Process projects in 2012 than were done in 2010.

Low Income Retrofit (HEA)

	Quantity			Annual Savings per Unit (kWh)			Annual Savings per Unit (mmbtu)			Measure Life			In-Service / Realization Rate							
															Total Lifetime Savings (kWh)			Total Lifetime Savings (mmbtu)		
	2010	2010	2012	2010	2010	2012	2010	2010	2012	2010	2010	2012				2010				
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan
	22						47		22	25		20	040/	040/				42.402		2.542
HEA Insulation, Gas	32	-	8	-	-	-	17	-	22	25	-	20	91%	91%	-	-	0	12,102	-	3,513
HEA Insulation, Oil	32	-	32	-	-	-	21	-	29	25	-	20	91%	91%	-	-	0	-	-	18,310
HEA Hot Water, Gas	16	-	7	-	-	-	11	-	11	7	-	7	91%	91%	-	-	0	1,276.76	-	540
HEA Hot Water, Oil	16	-	26	-	-	-	2	-	2	7	-	7	91%	91%	-	-	0	259	-	423
HEA Refrigerator	6	-	58	781	-	781	-	-	-	19	-	19	91%	91%	87,068	-	787,648	-	-	-
HEA Lighting	643	-	437	51	-	51	-	-	-	8	-	8	91%	91%	238,455	-	161,787	-	-	-
HEA Insulation, Electric	21	-	7	2,355	-	2,355	-	-	-	25	-	20	91%	91%	1,151,251	-	312,440	-	-	-
HEA Wx, Propane	-	-	25	-	-	-	-	-	33	20	-	20	91%	91%	-	-	-	-	-	16,704
HEA HVAC, Air Sealing	-	1	-	-	4,142	-	-	898	-	-	15	-	91%	91%	-	56,663	-	-	13,467.59	-
HEA HVAC, Insulation	-	1	-	-	8,320	-	-	1,767	-	-	25	-	91%	91%	-	189,690	-	-	44,168.43	-
HEA Hot Water	-	1	-	-	11,791	-	-	66	-	-	7	-	91%	91%	-	75,272	-	-	461.59	-
HEA Thermostats (21 total)	-	1	-	-	1,508	-	-	42	-	-	10	-	91%	91%	-	13,753	-	-	422.15	-
HEA Refrigerator	-	54	-	-	917	-	-	-	-	-	19	-	91%	91%	-	858,446	-	-	-	-
HEA Lighting	-	420	-	-	75	-	-	-	-	-	8	-	91%	91%	-	230,487	-	-	-	-
HEA HVAC Distribution	-	1	-	-	-	-	-	20	-	-	20	-	91%	91%	-	-	-	-	401.30	-

2012 Plan (Revised 12-02-2011)

								Annua	Savings p	er Unit				In-Serv	ice /						
			Quantity		Annual Sa	vings per L	nit (kwh)		(mmbtu)		N	/leasure Li	fe	Realizatio	n Rate	Total Life	time Savi	ings (kwh)	Total Lif	etime Saving	s (mmbtu)
		2010	2010	2012	2010	2010	2012	2010	2010	2012	2010	2010	2012				2010				
Measure	Notes	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan
HES Air Sealing, Electric				6			3,061.8		_		15	15	15	100%	100%			266,785			1
G,		-	-	6	-	-	3,533.0			-					100%	-	-	,	-	-	- '
HES Insulation, Electric		-	-	-	-	-	3,533.0	-	-	10.5	25	25	25	100%		-	-	513,061	-	-	- 0.404.03
HES Air Sealing, Non-electric		-	-	52	-	-	-	-	-	10.5	15	15	15	100%	100%	-	-	-	-	-	8,194.83
HES Insulation, Non-electric		-	-	52	-	-	-	-	-	12.1	25	25	25	100%	100%	-	-	-	-	-	15,759.69
HES Program T-Stats, Non-electric		-	-	5	-	-	-	-	-	3.8	10	10	10	100%	100%	-	-	-	-	-	198.66
HES DHW Pipe Wrap		-	-	8	-	-	-	-	-	0.3	7	7	7	100%	100%	-	-	-	-	-	13.72
HES DHW ISMs package		-	-	8	-	-	-	-	-	1.9	7	7	7	100%	100%	-	-	-	-	-	106.49
HES Non-Energy Savings Measures		-	-	29	-	-	-	-	-	-	8	8	1	100%	100%	-	-	-	-	-	- '
HES CFL's (direct install)		-	-	349	-	-	50.8	-	-	-	8	8	8	100%	100%	-	-	141,643	-	-	ı - '
HES Baseload (lights & audit)		-	-	10	-	-	304.8	-	-	-	8	8	8	100%	100%	-	-	24,996	-	-	- '
HES Audits that follow through		-	-	58	-	-	-	-	-	-	1	1	1	100%	100%	-	-	-	-	-	'
HES Program T-Stats electric		-	-	23	-	-	1,113.4	-	-	-	10	10	10	100%	100%	-	-	258,700	-	-	- '
HES Insulation, Electric		10	1	-	1,702	1,702.0	-	-	-	-	25	25	-	100%	100%	413,520	42,550	-	-	-	- '
HES Air Sealing, Electric		10	1	-	971	971.0	-	-	-	-	15	15	-	100%	100%	141,549	14,565	-	-	-	- '
HES DHW, Electric		5	1	-	500	9,537.5	-	-	-	-	7	7	-	100%	100%	17,007	66,763	-	-	-	- '
HES Thermostats, Electric		24	1	-	251	244.0	-	-	-	-	10	10	-	100%	100%	60,983	2,440	-	-	-	l - '
HES Lighting		583	155	-	51	50.8	-	-	-	-	8	8	-	100%	100%	236,975	62,992	-	_	-	l - '
HES Insulation, Non-Electric		51	32	-	-	-	-	17	65.6	-	25	25	-	100%	100%			-	21,723	52,511	l - '
HES Air Sealing, Non-Electric		-	37	-	-	-	-	-	12.4	-	15	15	-	100%	100%	-	-	-		6,894	l - '
HES DHW, Non-Electric		15	32	-	-	-	-	-	2.7	-	7	7	-	100%	100%	-	-	-	_	595	l - '
HES Thermostats, Non-Electric		51	10	-	-	-	-	8	17.4	-	10	10	-	100%	100%	-	-	-	3,929	1,742	l - '
HES Interior Fixtures		-	8	-	-	105.9	-	-	0.0	-	20	20	-	100%	100%	-	16,944	-		-	l - '
HES HES HE Boiler FHW 85 AFUE		-	1	_	-	-	_	-	8.0	-	20	20	-	100%	100%	-	-	-	_	160	l - '
HES On-demand Water Heater		-	1	-	-	-	-	-	6.8	-	15	15	-	100%	100%	-	-	-	-	103	l - '
HES Duct Sealing, Non-electric		-	12	_	-	_	-	-	11.8	-	18	18	-	100%	100%	-	-	-	-	2,554	l - '
HES Pipe Wrap, Non-Electric		-	1	-	-	-	-	-	40.6	-	15	15	-	100%	100%	-	-	-	-	609	- '
• •																					

ENERGY STAR® Homes Program

				Annı	ual Savings	per Unit				In-Ser	/ice /			
	(Quantity			(kWh)		M	easure L	ife	Realizati	on Rate	Total L	ifetime Savings	(kWh)
	2010	2010	2012	2010	2010		2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	2012 Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
E-STAR Homes - Heating	67	35	35	-	1,785	1,200	25	25	25	100%	100%	-	1,561,678	1,046,098
E-STAR Homes - Cooling	-	19	9	-	214	131	25	25	25	100%	100%	-	101,825	28,550
E-STAR Homes - Water Heating	67	38	35	-	392	-	15	15	15	100%	100%	-	223,455	-
E-STAR Homes - CFLs	1,007	1,122	299	51	51	39	8	8	7	100%	100%	409,087	455,594	81,836
E-STAR Homes - Fixtures	-	773	35	-	106	-	20	20	20	100%	100%	-	1,636,554	-
E-STAR Homes - Dishwashers, elec	-	-	30	-	-	74	10	10	10	100%	100%	-	-	22,313
E-STAR Homes - Dishwashers, non-elec	34	86	9	25	25	33	10	10	10	100%	100%	8,538	21,864	2,877
E-STAR Homes - Refrigerators	34	100	39	107	107	107	12	12	12	100%	100%	43,120	128,400	49,909
E-STAR Homes - Clotheswashers	-	30	-	146	146	223	14	14	11	100%	100%	-	61,320	-
E-STAR Homes - Thermostats	-	39	35	-	11	-	10	10	10	100%	100%	-	4,255	-
E-STAR Homes - Geothermal	-	5	4	-	20,363	12,500	25	25	25	100%	100%	-	2,545,400	1,250,000
E-STAR Homes - MF Heating	-	46	-	-	328	-	-	25	-	100%	100%	-	377,024	-
E-STAR Homes - MF Cooling	-	33	-	-	80	-	-	25	-	100%	100%	-	66,390	-
E-STAR Homes - MF Water Heating	-	46	-	-	224	-	-	15	-	100%	100%	-	154,800	-

ENERGY STAR® Lighting Program

										In-Service &	Realization			
		Quantity		Annual Sa	vings per l	Jnit (kWh)	М	easure Life		Ra	ite	Total Life	etime Savings	(kWh)
	2010	2010	2012		2010			2010	2012					
Measure	Plan	Actual	Plan	2010 Plan	Actual	2012 Plan	2010 Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
E-STAR Light Retail CFLs	22,428	45,039	12,261	50.8	50.8	39.1	5	5	5	80.3%	80.3%	4,570,493	9,178,451	1,924,460
E-STAR Light Catalog Sales	2,691	0	0	51.6	51.6	51.6	8	8	7	80.3%	80.3%	892,200	-	-
E-STAR Light Interior Fixtures	3,398	157	284	105.9	105.9	105.9	9	9	8	96.4%	96.4%	3,120,892	144,192	232,140
E-STAR Light Exterior Fixtures	2,039	4	0	105.9	105.9	105.9	5	5	5	100.0%	100.0%	1,079,147	2,117	-
E-STAR Light Torchieres	680	2	0	104.4	104.4	104.4	8	8	8	93.5%	93.5%	530,583	1,561	-
E-STAR Light LEDs	680	9	28	65.8	65.8	47.2	22	22	20	95.0%	95.0%	934,248	12,372	25,478
E-STAR Light Multi-Packs	30,583	0	41,800	50.8	50.8	39.1	5	5	5	80.3%	80.3%	6,232,490	-	6,560,660

ENERGY STAR® Appliance Program

		Quantity				gs per n)	М	easure L	ife	In-Ser Realizat	vice / ion Rate	Total Lit	fetime Savings	(kWh)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					, ,
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
E-STAR Appl. Clothes Washer	1,983	1,634	1,051	146	146	223	14	14	11	100%	100%	4,040,553	3,329,831	2,577,804
E-STAR Appl. Room A/C	397	470	162	26	26	16	9	9	9	100%	100%	92,793	109,980	23,508
E-STAR Appl Smart Strips	132	30	65	175	175	75	5	5	5	100%	100%	115,793	26,280	24,250
E-STAR Appl Refrigerator Rebate	-	-	162	-	-	107	-	-	12	100%	100%	-	-	207,584
E-STAR Appl Room Air Cleaners	-	-	16	-	-	238	-	-	9	100%	100%	-	-	34,630
E-STAR Appl Second RF Pickup	-	-	162	-	-	413	-	-	8	100%	100%	-	-	534,157

Large Business New Construction

										In-Ser	vice or			
	(Quantity	/	Annual Sa	vings per Uni	t (kWh)	M	easure L	.ife	Installat	tion Rate	Total Lif	etime Savings	(kWh)
	2010	2010	2012				2010	2010	2012					
Measure	Plan	Actual	Plan	2010 Plan	2010 Actual	2012 Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
LCI NC - Custom	-	-	14	-	-	43,798	15	-	15	100%	100%	-	-	9,197,573
LCI NC - Custom	13	-	-	52,382.31	-	-	13	-	15	100%	100%	8,852,610	-	0
LCI NC - HVAC	-	4	-	-	46,352	-	-	15	-	100%	100%	-	2,781,105	-
LCI NC - Lighting	-	5	-	-	48,984	-	-	15	-	100%	100%	-	3,673,800	-
LCI NC - Motors/Drives	-	3	-	-	84,052	-	-	20	-	100%	100%	-	5,043,140	-

Large Business Energy Solutions Program

											rvice or			
		Quantity			avings per Un	it (kWh)	M	easure L	_		tion Rate	Total Li	fetime Savings (I	(Wh)
	2010	2010	2012				2010	2010	2012					
Measure	Plan	Actual	Plan	2010 Plan	2010 Actual	2012 Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
LCI Retrofit - Lighting	-	-	16	-	-	118,930	13	-	13	89%	89%	-	-	21,465,850
LCI Retrofit - Non-Lighting	-	-	10	-	-	56,335	13	-	13	89%	89%	-	-	6,778,689
LCI Retrofit - Custom	19	-	-	102,233	-	-	13	13	-	89%	89%	22,473,855	-	-
LCI Retrofit - Compressed Air	-	2	-	-	331,382	-	-	13	-	89%	89%	-	7,668,179	-
LCI Retrofit - HVAC	-	1	-	-	62,816	-	-	13	-	89%	89%	-	726,781	-
LCI Retrofit - Lighting	-	7	-	-	704,442	-	-	13	-	89%	89%	-	57,052,758	-
LCI Retrofit - Motors/Drives	-	4	-	-	147,499	-	-	20	-	89%	89%	-	10,501,929	-
LCI Retrofit - Process	-	1	-		288,186		-	13		89%	89%		3,334,312	-

Small Business Energy Solutions Program

		Quantity	,	Annual Savings per Unit (kWh)			M	easure L	ife		vice or tion Rate	Total Li	fetime Savings (kWh)
	2010		2012		armge per er	(,	2010		2012				, and the second of the second	,
Measure	Plan	Actual	Plan	2010 Plan	2010 Actual	2012 Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
SCI Retrofit - Lighting	50	_	46	21,404	-	18,520	13	_	13	112%	112%	15,706,452	-	12,512,118
SCI Retrofit - Non-Lighting	6	-	6	42,807	-	37,041	13	-	13	112%	112%	3,926,613	-	3,128,029
SCI Retrofit - ComprAir	-	4	-	-	10,325	-	-	13	-	100%	100%	-	536,887	-
SCI Retrofit - HVAC	-	5	-	-	9,982	-	-	13	-	100%	100%	-	648,843	-
SCI Retrofit - Lighting	-	42	-	-	22,819	-	-	13	-	112%	112%	-	13,954,377	-
SCI Retrofit - Motors/Drives	-	1	-	-	4,467	-	-	13	-	100%	100%	-	58,071	-
SCI Retrofit - Process	-	1	-	-	51,840	-	-	13	-	100%	100%	-	673,920	-

National Grid NH Income Eligible Program 2012 Plan (Revised 12-2-2011)

National Grid Income Eligible Program

		Quantity	/		ual Savin nit (mmk		N	1easure	Life		llation or ation Rate	Total	Lifetime Sa (mmbtu)	vings
	2010	2010		2010	2010	2012	2010	2010	2012			2010	2010	2012
Measure	Plan	lan Actual Plan		Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	Plan
Low Income	260	336	360	32	12	14	20	20	20	100%	100%	165,360	81,600	98,244

National Grid NH Building Operator Certification Program 2012 Plan

National Grid Building Operator Certification Program

		Quantity	,		al Savings it (mmbt	•	M	easure Li	ife		llation or ation Rate		ifetime : (mmbtu	_
	2010				2010	2012	2010	2010	2012				2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
Building Operator Certification	60	0		0	0		1	1		100%		0	0	

National Grid NH Commercial Energy Analysis: Internet Audit Program 2012 Plan

National Grid Commercial Energy Analysis: Internet Audit Program

		Quantity	y		al Savin	•		easure L	ife		ation or tion Rate	Total Lifeti	me Savings	(mmbtu)
	2010	2010		2010			2010		2012				2010	2012
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	Plan
Low Income	60	68		0	0		1	1		100%		0	0	

National Grid NH Commercial Building Practices and Demo Program 2012 Plan

National Grid Commercial Building Practices and Demo Program

		Quantity	1		al Saving t (mmbt	•	M	easure L	ife	Installation Realization			fetime S mmbtu)	•
	2010						2010		2012				2010	
Measure	Plan			Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
Low Income	3	0		1,770			15			100%		79,633		

National Grid New Equipment and Construction Program National Grid Commmercial High Efficiency Heating Program

				Annu	al Savin	gs per				Installa	ntion or			
	(Quantity	,	Un	it (mmb	tu)	М	easure I	.ife	Realizat	ion Rate	Total Lifeti	me Savin	gs (mmbtu)
	2010	2010	2012	2010	2010	2012	2010	2010	2012				2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
Comm High Efficiency Heating	160	129		106	77		20	20		100%		340,348	199,415	
Furnace 95+ AFUE (<150) w/ECM Motor			46			18			18		100%			14,904
New Equipment Custom			8			634			18		100%			91,315
Condensing boiler <= 300 mbh			48			22			25		100%			26,520
Infrared			70			74			17		100%			88,536
On demand, Tankless Water Heater >=.82,			15			7			20		100%			2,130
Indirect Water Heaters (Combined appliance efficiency rating >=85% (EF=.82)			57			30			15		100%			25,992
Condensing Stand Alone >95% TE, >75000 btu			10			25			15		100%			3,750
Integrated water heater/condensing boiler (0.9 EF, 0.9 AFUE)			7			25			20		100%			3,438
Boiler >=96% AFUE, <= 300 mbh			7			22			25		100%			3,868
Condensing boiler 301-499 mbh			48			42			25		100%			50,760
Condensing boiler 500-999 mbh			14			77			25		100%			26,985
Condensing boiler 1000-1700 mbh			9			143			25		100%			32,085
Condensing boiler 1701+ mbh			4			249			25		100%			24,900
Condensing Unit Heaters			5			41			18		100%			3,683
Fryers			12			59			12		100%			8,438
High Efficiency Gas Steamer (Energy Star >=38% efficiency)			3			154			10		100%			4,608
High Efficiency Gas Convection Oven (>=40% efficiency)			3			25			12		100%			893
High Efficiency Gas Combination Oven (>=40% efficiency)			3			40			12		100%			1,451
High Efficiency Gas Conveyer Oven (>=40% efficiency)			3			85			12		100%			3,042
High Efficiency Gas Rack Oven (>=50% efficiency)			1			211			12		100%			2,536
High Efficiency Gas Griddle			1			19			12		100%			222

National Grid Large C&I Retrofit Program National Grid Commercial Energy Efficiency Program

				Annu	al Savin	gs per				Installa	ition or			
	•	Quantity	/	Un	it (mmb	tu)	M	easure L	ife	Realizat	ion Rate	Total Life	etime Savings	(mmbtu)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Comm Energy Efficiency Program	227			177			15			100%		602,932		
Multifamily Housing Program	20			446			15			100%		133,878		
Economic Redevelopment	10			531			15			100%		79,612		
CEEP		83			304			19		100%			478,730	
Large C & I Retrofit Program Custom			191			266			15		100%			762,541
Pre Rinse Spray Valve			15			34			5		100%			2,520
Boiler Reset Controls (retrofit only)			4			36			20		100%			2,840
Steam Traps			30			25			1		100%			759
Thermostat			30			3			15		100%			1,125

National Grid Residential High-Efficiency Heating, Water-Heating, Controls ProgramENERGY STAR® Appliance Program

				Δnnı	al Savin	gs ner				In-Sei	vice /			
		Quantity	,		nit (mmb	.	М	easure Li	ife	Realizat	•	Total Lifet	ime Savin	gs (mmbtu)
	2010	2010	2012	2010	•	2012	2010	2010	2012				2010	, ,
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
High Efficiency Gas Furnace (AFUE >= 92%)	331	124		21	22		18	18		100%		125,562	48,994	
High Efficiency Gas Hot Water Boiler	55	55		9	9		20	20		100%		9,808	9,790	
Condensing Boiler	28	133		11	11		20	20		100%		6,281	30,324	
High Efficiency Gas Steam Boiler	28	26		13	13		25	20		100%		8,885	8,385	
ECM 92%	110	257		20	20		18	18		100%		38,879	90,670	
Indirect Water Heater	86	175		8	8		20	20		100%		13,535	27,300	
Tankless Natural Gas Water Heater	171	84		8	8		20	20		100%		26,728	13,272	
ES Thermostats	650	505		8	8		10	10		100%		48,738	37,875	
Boiler Reset Controls	54	2		8	8		15	15		100%		6,417	237	
Tank WH		21			2			13		100%			519	
Tankless Water Heaters (EF 0.82)			114			10			20		100%			22,116
Indirect Water Heater (attached to gas Energy Star FHW boiler)			209			8			20		100%			33,440
Stand Alone Storage Water Heater (EF 0.67)			3			4			13		100%			144
Combo condensing boiler w/ On-Demand DWH 90%			43			21			20		100%			18,146
Furnace (forced hot air) 95% AFUE w/ECM			209			18			18		100%			67,716
Furnace (forced hot air) 96% AFUE w/ECM			21			21			18		100%			7,825
Boiler (forced hot water) 96% AFUE			10			21			20		100%			4,260
Boiler (forced hot water) 90% AFUE			229			14			20		100%			62,746
7-Day Programmable Thermostats			629			8			15		100%			72,650
Boiler Reset Controls			7			8			15		100%			830
Tankless Water Heater (EF 0.95)			12			10.30			20		100%			2,472
Condensing Gas Water Heater (EF 0.94)			1			25.00			15		100%			375

National Grid New Home Construction with Energy Star

		Quantity	1		al Savinę it (mmb	•	Me	easure L	ife	In-Ser Realizat	vice / ion Rate		ifetime S mmbtu)	•
Measure	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010 Plan		2012 Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
ES Homes	30	9	34	22	22	27	25	25	25	100%	100.00%	16,594	4,978	23,120

National Grid Residential Building Practices and Demo

		Quantity	/		al Savin _i it (mmb	•		easure L			Realization ate	Total	Lifetime (mmbt	
	2010	2010	2012	2010	2010	2012	2010	2010	2012			2010	2010	2012
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	Plan
Res Building Practices and Demo	20	0	10	0		0	1			100%		0		0

National Grid NH Energy Audit with Home Performance and Weatherization 2012 Plan

National Grid Energy Audit with Home Performance and Weatherization

				Annu	al Savin	gs per				Installa	tion or	Total	Lifetime Sa	avings
	(Quantity		Un	it (mmb	tu)	Me	asure Lif	e	Realizati	on Rate		(mmbtu)	
	2010	2010	2012	2010	2010	2012	2010	2010	2012			2010	2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	2012 Plan
Single Family (1-4 Units)	733	1,224	1,400	19	19	14	20	20	20	100%	98%	280,218	467,568	386,904
Multi-Family (5+ Units)	367			19			20	20		100%		140,109		
Res Energy Analysis: Internet Audit	1,053			0			1	1		100%		0		

National Grid NH Small Business Energy Solutions Program 2012 Plan

National Grid Small Business Energy Solutions Program

		Quantity		Annual	Savings (mmbtu	per Unit)		easure L	.ife	In-Ser Realizatı	vice & ion Rate		ifetime ((mmbtu	_
	2010	2010	2012	2010	2010	2012	2010	2010	2012			2010	2010	2012
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	Plan
Small Business Custom			29			324			15		100%	0		141,071

Low Income Retrofit

				Annu	al Saving	s per				In-Serv	ice /			
		Quantity	<u> </u>	Ur	nit (mmbt	u)	M	easure L	.ife	Realizatio	n Rate	Total Life	time Savin	gs (mmbtu)
	2010	2010	2012	2010	2010	2012	2010	2010	2012				2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
Air Sealing	-	-	24.9	-	-	19.2	15	15	15	100%	100%	-	-	7,175
Insulation	-	-	24.9	-	-	19.5	25	25	25	100%	100%	-	-	12,126
Weatherization	80	-	-	26	-	-	15	25	25	100%	100%	31,567	-	-
SF Air Sealing	-	4	-	-	19.2	-	-	15	-	100%	100%	-	1,151	-
SF Insulation	-	4	-	-	19.5	-	-	25	-	100%	100%	-	1,946	-
SF Condensing Boiler	-	1	-	-	45.7	-	-	20	-	100%	100%	-	914	-
SF Furnace	-	2	-	-	31.0	-	-	18	-	100%	100%	-	1,116	-
SF Thermostats	-	1	-	-	1.3	-	-	10	-	100%	100%	-	13	-
SF Water Measures	-	3	-	-	3.3	-	-	7	-	100%	100%	-	68	-
MF Air Sealing (Sunset Arms 24 units)	-	1	-	-	185.4	-	-	15	-	100%	100%	-	2,780	-
MF Insulation	-	1	-	-	163.0	-	-	25	-	100%	100%	-	4,076	-
MF Boiler	-	2	-	-	101.0	-	-	20	-	100%	100%	-	4,040	-
MF Indirect Water Heat	-	2	-	-	34.2	-	-	15	-	100%	100%	-	1,025	-
MF Thermostats	-	1	-	-	41.0	-	-	10	-	100%	100%	-	410	-
MF DHW	-	1	-	-	80.1	-	-	7	-	100%	100%	-	560	-

Home Performance w/ Energy Star

		0			ual Savin	•			• •	In-Serv	•	T. 1. 1.1.5		
		Quantity			nit (mml			easure L		Realizatio	n Kate	Total Life		gs (mmbtu)
	2010	2010	2012	2010	2010	2012	2010	2010	2012				2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
Weatherization	27	-	-	36.6	-	-	20	20	20	100%	100%	19,764	-	-
Air Sealing	-	20	36	-	16.1	10.5	15	15	15	100%	100%	-	4,835	5,661.87
Attic Insulation	-	19	36	-	16.5	8.8	25	25	25	100%	100%	-	7,857	7,946.48
Basement Insulation	-	18	14	-	10.1	9.6	25	25	25	100%	100%	-	4,523	3,467.55
Wall Insulation	-	11	25	-	56.7	23.7	25	25	25	100%	100%	-	15,597	14,993.56
Rim & Joist	-	-	2	-	-	2.4	25	25	25	100%	100%	-	-	107.91
Duct Sealing	-	9	-	-	5.8	-	20	20	20	100%	100%	-	1,035	-
DHW Pipe Wrap	-	1	-	-	3.0	-	7	7	7	100%	100%	-	21	-
Gas Furnace	-	1	-	-	9.7	-	20	20	20	100%	100%	-	194	-
Thermostats	-	3	-	-	5.9	-	10	10	10	100%	100%	-	178	-

ENERGY STAR® Homes Program

				Annu	al Savin	gs per				In-Ser	vice /	Tota	Lifetime S	Savings
		Quantity	/	Un	it (mmb	tu)	M	easure L	.ife	Realizati	on Rate		(mmbtu	
	2010	2010	2012	2010	2010	2012	2010	2010	2012			2010	2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	2012 Plan
ES Homes SF Heating	25.0	2.0	19.4	22.5	13.1	22.5	25	25	25	100%	100%	14,245	654	10,890
ES Homes SF Water Heating	25.0	3.0	19.4	2.5	3.1	2.5	15	15	15	100%	100%	950	141	726
ES Homes Dishwashers	-	3.0	19.4	-	0.2	1.9	11	11	10	100%	100%	-	5	368
ES Homes Thermostats	13.0	5.0	33.9	7.7	7.7	7.7	10	10	10	100%	100%	975	385	2,609
ES Homes MF Heating	-	32.0	-	-	149.3	-	25	25	25	100%	100%		119,472	-

				Annu	al Savin	gs per				In-Ser	vice /	Tota	Lifetime	Savings
		Quantit	у	Un	it (mmb	tu)	Me	easure L	ife	Realizat	ion Rate		(mmbtu	1)
	2010	2010	2012	2010	2010	2012	2010	2010	2012			2010	2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	2012 Plan
On-Demand Tankless Water Heaters (EF 0.82)	-	53.0	11.2	-	7.9	9.7	-	13	20	100.00%	100.00%	0	5,443	2,182
Indirect Water Heater (attached to gas Energy Star FHW boiler) 2010	-	4.0	11.2	-	4.0	8.0	-	20	20	100.00%	100.00%	0	320	1,800
Stand Alone Storage Water Heater (EF 0.67)	-	-	-	-	-	3.7	-	-	13	100.00%	100.00%	0	0	0
Combo condensing boiler w/ On-Demand DWH 90%	-	-	-	-	-	21.1	-	-	20	100.00%	100.00%	0	0	0
Furnace (forced hot air) 95% AFUE w/ECM	-	-	225.0	-	-	18.0	-	-	18	100.00%	100.00%	0	0	72,894
Furnace (forced hot air) 96% AFUE w/ECM	-	-	37.5	-	-	20.7	-	-	18	100.00%	100.00%	0	0	13,971
Boiler (forced hot water) 96% AFUE	-	-	7.5	-	-	21.3	-	-	20	100.00%	100.00%	0	0	3,195
Boiler (forced hot water) 90% AFUE	-	-	30.0	-	-	13.7	-	-	20	100.00%	100.00%	0	0	8,219
7-Day Programmable Thermostats	61.9	211.0	37.5	7.7	7.7	7.7	10	10	15	100.00%	100.00%	4,763	16,247	4,331
Boiler Reset Controls	-	1.0	3.7	-	7.9	7.9	-	15	15	100.00%	100.00%	0	119	444
On-Demand Tankless Water Heater (EF 0.95)	-	-	3.7	-	-	10.3	-	-	20	100.00%	100.00%	0	0	772
Condensing Gas Water Heater (EF 0.94)	-	-	7.5	-	-	25.0	-	-	15	100.00%	100.00%	0	0	2,812
Boiler (forced hot water) 90% AFUE	-	122.0	-	-	11.4	14.2	-	20	20	100.00%	100.00%	0	27,816	0
Furnace (forced hot air) 92% AFUE w/ECM	6.1	72.0	-	19.6	19.6	11.8	18	18	18	100.00%	100.00%	2,146	25,337	0
Furnace (forced hot air) 94% AFUE w/ECM	-	4.0	-	-	23.6	14.2	-	18	18	100.00%	100.00%	0	1,699	0
Integrated water heating/condensing boiler	-	3.0	-	-	21.1	21.1	-	20	20	100.00%	100.00%	0	1,266	0
Stand Alone Storage Water Heater (EF 0.62)	-	5.0	-	-	1.9	1.9	-	13	13	100.00%	100.00%	0	124	0
Boiler HW >=85% AFUE	11.3	17.0	-	11.4	11.4	-	20	20	-	100.00%	100.00%	2,582	3,876	0
Steam Boiler >= 82% AFUE	0.9	9.0	-	12.9	12.3	-	20	25	-	100.00%	100.00%	225	2,768	0
Warm Air Furnace 90% or > AFUE	22.7	-	-	21.5	-	-	18	_	-	100.00%	100.00%	8,767	0	0
Windows	104.6	212.0	-	0.2	0.2	-	20	20	-	100.00%	100.00%	481	975	0
HE Gas Water Heater	4.4	-	-	1.0	-	-	13	-	-	100.00%	100.00%	55	0	0
Instantaneous Wall Mounted Boiler	47.9	-	-	12.9	-	-	15	_	-	100.00%	100.00%	9,272	0	0
Furnace (forced hot air) 92% or > AFUE	-	34.0	-	-	21.1	-	-	18	-	100.00%	100.00%	0	12,883	0
Water Heater On-demand	-	1.0	-	-	7.8	-	-	20.0	-	100.00%	100.00%	0	156	0
Integrated water heating/non-condensing boiler	-	16.0	-	-	21.1	-	-	20.0	-	100.00%	100.00%	0	6,752	0
Indirect Water Heater	27.0	57.0	_	7.9	7.9	-	15	15.0	-	100.00%	100.00%	3,200	6,755	0
Warm Air Furnace w/out ECM 92%>	-	5.0	-	-	21.1	-	-	18.0	-	100.00%	100.00%	0	1,899	0

Large C&I Retrofit

					Savings p	er Unit				In-Sei	•			<i>(</i>
		Quantity	/		(Therms)		M	easure L	ite	Realizat	ion Rate	Total Lif	etime Savings	(Therms)
	2010	2010	2012	2010	2010	2012	2010	2010	2012					
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Large C&I Custom	4	-	5	84,532	-	10,417	13	-	18	100%	100%	1,115,818	-	937,545
Boilers	-	1	-	-	31,117	-	-	20	-	100%	100%	-	622,340	-
Burners & Controls	-	2	-	-	34,255	-	-	15	-	100%	100%	-	1,027,650	-

Small C&I Retrofit

				Annua	Savings p	er Unit				In-Serv	ice /			
		Quantity	/		(Therms)		M	easure L	.ife	Realizatio	n Rate	Total Life	etime Saving	s (Therms)
	2010	2010	2012	2010	2010	2012	2010	2010	2012				2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
Small C&I Custom	15	-	11	55,131	-	4,307	16	-	18	100%	100%	865,557	-	852,744
SCI Boiler	-	1	-	-	1,583	-	-	20	-	100%	100%	-	31,660	-
SCI Insulation	-	1	-	-	1,589	-	-	25	-	100%	100%	-	39,725	-
SCI Windows	-	1	-	-	136	-	-	20	-	100%	100%	-	2,720	-
Custom Boiler	-	1	-	-	8,500	-	-	20	-	100%	100%	-	170,000	-

C&I Multi-Family Retrofit

					Savings						rvice /			
		Quantity	/		(Therms)		M	easure L	ife	Realizat	tion Rate	Total Lifeti	me Saving	s (Therms)
	2010	2010	2012	2010	2010	2012	2010	2010	2012				2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	2010 Plan	Actual	2012 Plan
MF Custom	29		7	2,966	-	5,458	18	-	18	100%	100%	1,505,447	-	668,564
MF Water Heaters	-	3	-	-	880	-	-	15	-	100%	100%	-	39,600	-
MF Boilers	-	3	-	-	4,119	-	-	20	-	100%	100%	_	247,160	-

					ual Savin	• •					rvice /	Tot	al Lifetim	e Savings
		Quantit		Uı	nit (mmb			easure Li		Realizat	ion Rate		(mmbt	:u)
	2010	2010	2012	2010	2010	2012	2010	2010	2012			2010	2010	
Measure	Plan	Actual	Plan	Plan	Actual	Plan	Plan	Actual	Plan	2010	2012	Plan	Actual	2012 Plan
Furnace 92+ AFUE (<150) w/ECM Motor (DROP)	_	_	_	_	_	19.6	_	_	18	100%	100%	_	_	_
Furnace 94+ AFUE (<150) w/ECM Motor (DROP)	_	_	_	_	_	23.6	_	_	18	100%	100%	_	_	_
Furnace 95+ AFUE (<150) w/ECM Motor	_	_	3.7	_	_	18.0	_	_	18	100%	100%	_	_	1,210
Furnace 96% AFUE w/ ECM Motor	_	_	J.,	_	_	20.7	_	_	18	100%	100%	_	_	1,210
Free Standing Water Heater (EF 0.62) (DROP)	_	_	_	_	_	1.9	_	_	10	100%	100%	_	_	_
Free Standing Water Heater (EF 0.67)	_	_	_	_	_	3.0	_	_	10	100%	100%	_	_	_
On demand, Tankless Water Heater >=.95	_	_	14.9	_	_	9.6	_	_	20	100%	100%	_	_	2,866
On demand, Tankless Water Heater >=.82	_	_	3.7	_	_	7.1	_	_	20	100%	100%	_	_	530
Indirect Water Heaters	_	_	7.5	_	_	30.4	_	_	15	100%	100%	_	_	3,407
Condensing Stand Alone Water Heater (75-300 mbh) =>95%	_	_	3.7	_	_	25.0	_	_	15	100%	100%	_	_	1,401
Integrated water heater/condensing boiler (0.9 EF, 0.9 AFUE)	_	_	J.,	_	_	24.6	_	_	25	100%	100%	_	_	-,-01
Integrated water heater/condensing boiler (0.86 EF, 0.85 AFUE) (DROP)		_	_	_	_	20.0	_	_	20	100%	100%		_	_
Condensing boiler 301-499 mbh	_	_	7.5	_	_	42.3	_	_	25	100%	100%	_	_	7,901
Condensing boiler 500-999 mbh	_	_	3.7	_	_	77.1	_	_	25	100%	100%	_	_	7,200
Condensing boiler 1000-1700 mbh	_	_	J.,	_	_	142.6	_	_	25	100%	100%	_	_	7,200
Condensing boiler 1700 1700 mbh					_	249.0	_	_	25	100%	100%	_	_	
Condensing boiler <=300 mbh >90% AFUE					_	22.1	_	_	25	100%	100%		_	
Condensing boiler <=300 mbh >96% AFUE	_	_	_		_	22.1	_	_	25	100%	100%	_	_	_
Condensing Unit Heater <= 300 mbh 90%	_	_	11.2		_	40.9	_	_	18	100%	100%	_	_	8,251
Infrared Heater	_	_	3.7		_	74.4	_	_	25	100%	100%	_	_	6,948
Boiler Reset Controls	_	_	J.,		_	35.5	_	_	20	100%	100%	_	_	0,540
Food Service Fryers	_	_	7.5		_	58.6	_	_	12	100%	100%	_	_	5,254
Food Service High Efficiency Gas Steamer (Energy Star >=38% efficiency)	_	_	-		_	51.2	_	_	10	100%	100%	_	_	3,231
Food Service High Efficiency Gas Sconvection Oven (>=40% efficiency)	_	_	_		_	110.3	_	_	12	100%	100%	_	_	_
Food Service High Efficiency Gas Combination Oven (>=40% efficiency)	_	_	_		_	24.8	_	_	12	100%	100%	_	_	_
Food Service High Efficiency Gas Conveyer Oven (>=40% efficiency)	_	_	_		_	84.5	_	_	12	100%	100%	_	_	_
Food Service High Efficiency Gas Rack Oven (>=50% efficiency)	_	_	_		_	211.3	_	_	12	100%	100%	_	_	_
Food Service High Efficiency Gas Griddle	_	_	_		_	18.5	_	_	12	100%	100%	_	_	_
Furnace w/ ECM	3	4.0	_	19.6	19.6	-	18	18.0	-	100%	100%	961	1408	
Infrared Heaters	2	2.0	_	61.2	61.2	_	17	17.0	_	100%	100%	2130	2081	_
Programmable Thermostats	27	15.0	_	7.7	7.7	_	10	10.0	_	100%	100%	2102	1,155.0	_
Food Services Equipment	4	5.0	_	55.9	54.5	_	10	10.0	_	100%	100%	2236	2724	_
Boiler - HW >=85	3	9.0	_	8.0	8.0	_	20	20.0	_	100%	100%	546	1,440.0	_
Boiler - HW >=90	25	28.0	_	12.9	12.9	_	20	20.0	_	100%	100%	6536	7,246.4	
Boiler/WH Combo>=90 AFUE	10	15.0	_	11.4	11.4	_	20.0	20.0	_	100%	100%	2334	3420	_
Indirect Water Heaters	_	5.0	_	-	7.9	_	15.0	15.0	_	100%	100%	-	592.5	_
Furnace 92+ AFUE (<150) w/ECM Motor (DROP)	_	1.0	_	_	21.5	_	-	18.0	_	100%	100%	_	387.0	
Water Heater On Demand	_	2.0	_	_	1.0	_	_	13.0	_	100%	100%	_	25.2	
		5						25.0		20070	200,0		_3. _	

Public Service Company of New Hampshire Customer Engagement Pilot Program Description

Primary Objective

PSNH's Customer Engagement Pilot Program will be utilized as a tool to evaluate the effectiveness of utilizing a behavioral-based energy-efficiency program in New Hampshire before expanding the program to a larger audience of customers.

Typical Customer Engagement Programs

There are a number of utilities that offer behavior-based energy efficiency programs that target residential and small business utility customers and may include the following elements:

1) Customers receive personalized print and email energy savings reports.

The energy savings reports offer personalized information about energy usage in the home or small business and offer tailored tips and recommendations for energy savings without a survey or audit. Attachment 1 contains examples of energy savings reports from three vendors.

2) Customers have access to a program website.

A website containing energy savings tips is available to all customers. Program participants receive additional targeted feedback on energy and bill savings and have the option of setting individual goals and tracking their progress. Emails tracking customers' progress in lowering their energy bills can be sent to the participating customers on a regular basis.

3) Customers receive rewards points for saving energy.

Some programs offer rewards points or other tailored incentives that can be issued to customers based on how much energy they save. If rewards points are issued, they can then be redeemed for discounts at either national or local stores.

4) <u>Customers can collaborate within their community or organization to save energy</u>.

Participating communities or organizations can create "teams" that track participation and energy savings. Teams could include schools, environmental groups and community energy groups.

Program Benefits

By receiving personalized recommendations and suggestions, participating customers benefit from the program by making smarter energy purchase decisions which result in lower electric bills. Some simple, low or no cost changes in behavior can result in energy savings and lower bills. If the pilot program is successful, an expanded program could be offered to all residential customers as a cost effective addition to the current energy-efficiency programs.

Typical Customer Engagement Program Results

Vendor websites indicate the energy savings reports and related websites and incentives generate between 1.5% and 3.5% energy savings, increased customer engagement and satisfaction and participating customers are more likely to participate in other energy-efficiency programs.

Public Service Company of New Hampshire Customer Engagement Pilot Program Description

PSNH's Customer Engagement Pilot Program

PSNH is in the process of evaluating behavior-based energy efficiency programs and approaches that have been utilized by various utilities. PSNH has not committed to a particular style, methodology or approach or any vendor. Based on PSNH's research-to-date, PSNH's Customer Engagement Pilot Program will likely include, at a minimum, the following elements:

- o A random, representative sample of residential customers ("pilot program participants") will receive a personalized print energy savings report, as described above.
- An outreach effort, which may include letters, bill stuffers, email and social media, will be incorporated to apprise the pilot program participants of their current energy usage and to advise them of energy savings opportunities targeted to their usage patterns and interests.
- o A program website offering energy saving advice and incentives for utilizing the website on a regular basis.
- o A way to have interested customers form "energy saver teams", including the means to motivate the teams to save energy.

Planned Pilot Program Scope

Number of participants: 25,000 randomly selected residential customers

Budget: \$250,000 Projected kWh Savings: 4,050,000 Projected Benefit/Cost Ratio: 1.01

Duration: Twelve months

Pilot Program Evaluation

The evaluation of the program's effectiveness will be based on:

- Verifiable kilowatt-hour savings that are certified by an independent third party;
- Energy savings results which are cost effective (a benefit/cost ratio of at least 1.01);
 and
- o Results which indicate the program is expandable to PSNH's general residential population, which will be accomplished by utilizing a randomly selected representative sample of residential customers in the pilot program.
- o A high level of satisfaction with the program by customers participating in the program.

PSNH will base the pilot on a randomly selected representative sample of its residential customer population so that costs and energy savings are scalable to the entire residential customer population. The Pilot Program Evaluation will serve to inform any future proposal to expand to a full scale program.



save energy, save money, save 10%

Dear Gabriel,

Thank you for joining the PUD Energy Challenge! You are one of 3,300 residential customers that have joined the PUD Energy Challenge and pledged to reduce their electricity use by 10%. If every home meets the

goal, we'll save 4,950,000 kWh each year, enough to power almost 400 homes!

Energy Challenge Report :: January 2010 - May 2011

Date Pledged: September 27, 2009

Name Provided: Jane Doe
Account #: 123456789
Name on Account: Jane Doe
Service Address: 123 Main Street

Marysville, WA 98270-7262

Type of Home: single family home
Most used heat source: natural gas furnace/stove

Water heater fuel: natural gas

As an Energy Challenge participant, you are receiving this report to help you track your progress towards your 10% savings goal and give you insight into your electric use. In future we plan to provide these reports to you twice each year.

Compared to 2009, you reduced your energy use by 8.4% in 2010.

The chart below shows your energy consumption in kilowatt-hours (kWh) per day for each billing period and the change in your consumption from year to year. It is the same information that appears on your bi-monthly PUD bill.

2009	kWh/day	2010	kWh/day	Change	2011	kWh/day	Chan
11/7/08 - 1/13/09	27.4	11/13/09 - 1/13/10	23.3	₩ 15%	11/10/10 - 1/11/11	19.9	¥ 15
1/14 - 3/16/09	21.4	1/14 - 3/15/10	17.8	₩ 17%	1/12 - 3/14/11	19.3	+ 8
3/17 - 5/13/09	18.0	3/16 - 5/12/10	18.7	+ 1%	3/15 - 5/11/2011	18.1	# 3
5/14 - 7/15/09	15.0	5/13 - 7/13/10	15.8	+ 5%			
7/16 - 9/11/09	16.0	7/14 - 9/10/10	15.9	₩ 1%			
9/12 - 11/12/09	18.1	9/11 - 11/9/10	15.5	4 14%			
2009 Full Year	19.5	2010 Full Year	17.9	₩ 8%	2011 Full Year	59	

A kWh is a basic measurement of electrical energy use and is equal to the electricity used by a 100-watt bulb on for 10 hours.

We measure changes with kWh per day instead of total kWh because billing periods can vary in length from year to year.

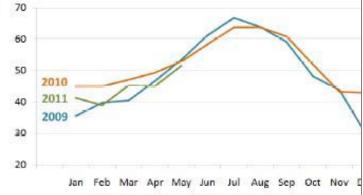
Wondering what contributed to your results? In addition to your efforts to use less energy, many other factors influence electric consumption, including the number of people living in your home, new appliances or new electronics. Weather can also be an important factor in how much energy your lighting, heating and cooling systems use. The graph below shows temperature data for each year - it may be useful as you evaluate changes in your energy use.

Learn more about your home's energy with our online Energy Advisor at www.snopud.com/energyadvisor. Or, round up four or more like-minded friends or family and get a FREE Home Energy Assessment through our Community Power! program. Available for a limited time to qualifying groups of 5 or more PUD customers applying together, your assessment will include a report of energy-saving recommendations unique to your home. Get all the details at www.snopud.com/cpassessment.

Thank you for being a Conservation Sensation

Cathy Anderson

Energy Challenge Program Manager (425) 783-1798 :: challenge@snopud.com



Everett Average Daily Temperature by Month



ENERGY SAVINGS REPORT

Report Period: 11/1/10 - 2/1/11

James Frank 919 Ellynwood Drive Ludlow, MA 01056

والمرابط الماطول المالط الماطول المراكب

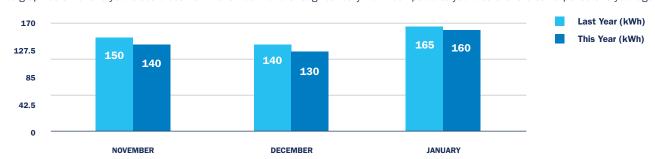
Your Energy Savings Report helps you understand your home's electric use and shows you how to save money on your electric bill.

Sign up with your account number to learn more! www.WesternMassSaves.com

WMECO account number: 1234567890

Electric use compared to last year

The graph below shows your electric use from November 2010 through January 2011 compared to your use over the same period one year ago.



Follow these personalized recommendations to save energy and money

Hang on your refrigerator & check off when complete



Replace light bulbs with compact fluorescent lights. Save up to \$14 / year

CFLs use 75% less energy and last four times as long as traditional light bulbs.

123 neighbors are doing this | Pays for itself in 3 months

Learn more or shop for this product at: www.WesternMassSaves.com/CFL



Lower your thermostat two degrees this winter. Save up to \$14 / year

Studies show that most people don't even notice a two degree difference.

123 neighbors are doing this | Pays for itself in 3 months



Buy and install a low flow showerhead. Save up to \$14 / year

For \$20 you can find a great low flow showerhead that doesn't sacrifice water pressure and takes only a few minutes to install.

123 neighbors are doing this | Pays for itself in 3 months

Learn more or shop for this product at: www.WesternMassSaves.com/LowFlow

Go to www.WesternMassSaves.com to find more ways to save energy.

Do you want to save even more?

Western Mass Saves is a FREE program that gives you personalized recommendations to save on your electric bill and rewards you based on how much you save.

Join WesternMassSaves.com



1. We connect to your WMECO account to track your electric use — all you need to provide is your account number: 123456789



3. We send you email messages when a new bill arrives to track your progress and give you rewards points for any savings.



2. You act on personalized recommendations to lower your electric bill.



4. You use your points for great discounts while helping the environment, your community, and your wallet.

Just for signing up at **WesternMassSaves.com** you'll earn 100 rewards points and can get the discounts below immediately.

You'll need your WMECO account number to sign up: 1234567890



\$10 OFF \$50 or more (100 Points)

footlocker.com

15% OFF \$75 or More (75 Points)



\$10 OFF \$50 or more online (100 Points)

Community Update:

When you join online, your energy savings directly impact Ludlow's position in the community standings.

12th

Huntington is currently in 12th place out of 59 Western Mass communities!



Go to WesternMassSaves.com today!

You'll need your WMECO account number to signup.

WMECO account number: 89934653098





Home Energy Report

Account number:

Report period: 04/28/11 - 07/27/11

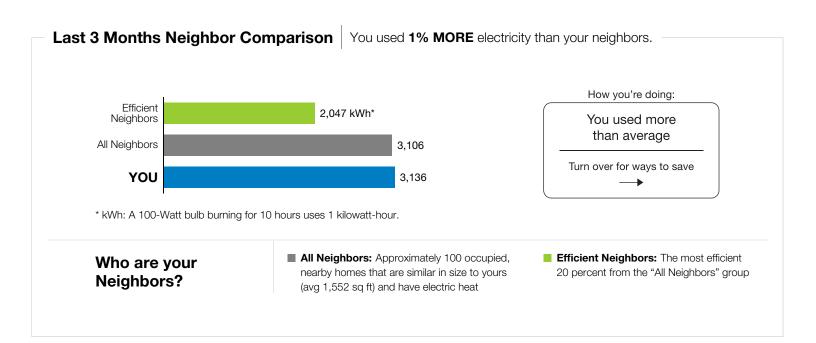
We are pleased to provide this personalized report to help save you energy.

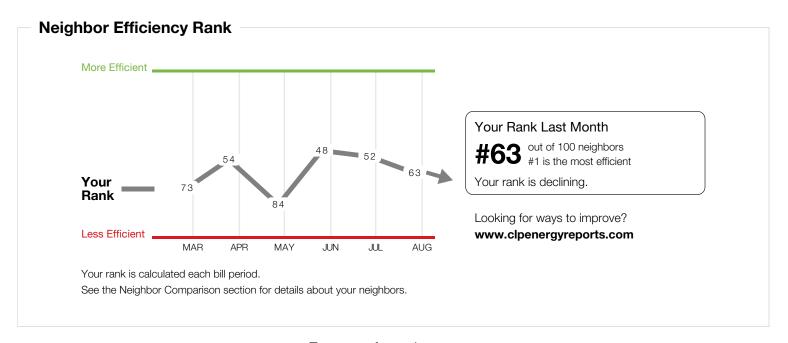
The purpose of the report is to:

- Provide information
- Help you track your progress
- Share energy efficiency tips

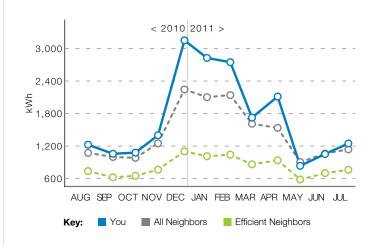


This information and much more available at **www.clpenergyreports.com**





Last 12 Months Neighbor Comparison



You used **20% more electricity** than your neighbors. This costs you about **\$546 extra** per year.



Great way to save this summer

Use AC wisely. Raise your thermostat 2° when you're home and 10° when you're away. Use fans to stay cool and comfortable.

Action Steps | Personalized tips chosen for you based on your energy use and housing profile

Quick Fix

Something you can do right now

Use computer power-saving modes

Most people do not realize how much energy computers use when left on all the time.

You can save energy and money by putting your computer and monitor in "sleep" or "hibernate" mode when not in use. If your computer has this feature, make sure it is enabled.

You will save the most energy by turning the computer off entirely when it's not being used.

\$100 PER YEAR

Smart Purchase

Save a lot by spending a little

☐ Spotlight your work spaces

Whether you're preparing dinner, writing at a desk or reading a book, light is important. Instead of spreading it around the room, focus light where you need it most.

Using desk lamps or over-the-counter lighting for specific tasks brightens important spaces, and it can significantly reduce your energy consumption.

You can find discounted ENERGY STAR® qualified light fixtures in our online SmartLiving Catalog - find it at www.cl-p.com.

SAVE UP TO

PER YEAR

Smart Purchase

Save a lot by spending a little

☐ Choose efficient light fixtures

Compact fluorescent lights (CFL) offer an easy and affordable way to save energy and money, but screw-in CFL bulbs may not operate as efficiently as possible with light fixtures you already have.

Look for ENERGY STAR® qualified fixtures to ensure you receive the best performance and most energy savings possible from CFL bulbs.

You can find discounted CFLs and efficient light fixtures in our online SmartLiving Catalog - find it at www.cl-p.com.

\$135 OVER BULB LIFE

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runs on OP@WER®

DE 10-188
Calculation of 2010 Unspent Amounts
Based on 2010 PI Calculations, as filed by each company in 2011

						2010
		Budget		Actual		Unspent
NGRID-GAS:						
Residential	\$	2,575,126	\$	2,443,244	\$	(131,882)
C&I	Ś	2,411,290	\$	1,140,304		(1,270,986)
Total	\$ \$	4,986,416	\$	3,583,548	_	(1,402,868)
		,,	<u> </u>	-,,-		(, - ,,
Northern Utilities -GAS:						
Residential	\$	594,148	\$	802,273	\$	208,125
C&I	\$ \$ \$	664,713	\$	502,234	\$	(162,479)
Total	\$	1,258,861	\$	1,304,507	\$	45,646
NGRID-Electric:						
Residential	\$	556,172	\$	564,945	\$	8,773
C&I	\$ \$ \$	829,063	\$	876,925	\$	47,862
Total	\$	1,385,235	\$	1,441,870	\$	56,635
NHEC:						
Residential	\$ \$	890,978	\$	747,111	\$	(143,867)
C&I		439,426	\$	217,907	\$	(221,519)
Total	\$	1,330,404	\$	965,018	\$	(365,386)
PSNH:						
Residential	\$	5,619,676	\$	5,968,081	\$	348,405
C&I	\$ \$	7,279,216	\$	6,832,160	\$	(447,056)
Total	\$	12,898,892	\$	12,800,241	\$	(98,651)
			_			
Unitil:						
Residential	\$	1,315,287	\$	1,330,710	\$	15,423
C&I	\$	1,256,907	\$	1,116,561	\$	(140,346)
Total	\$	2,572,194	\$	2,447,271	\$	(124,923)

Attachment D

National Grid NH Activities Currently in Progress:

- Telemarketing outreach to all 10,437 C&I gas customers, with targeted messaging by customer type. The Company first launched this campaign in October 2011 and has generated over 450 energy efficiency leads to date.
- Periodic direct mail outreach to all 10,437 C&I gas customers, with targeted messaging by customer type.
- Periodic email blasts to all C&I gas customers where the Company has an active email address account (est. 1,325), with targeted messaging by customer type. The Company will also be actively trying to increase its email address database.
- Street canvassing of select urban hubs to meet directly with local businesses to promote the Company's gas energy efficiency programs. After the first two weeks of activities, the Company produced 43 installs of qualifying product savings measures to local restaurants and food service businesses.
- More aggressive presence at customer events. Over the past two months the Company has participated in six customer events supporting our gas territory. The Company's goal is to participate in at least two customer events per month across its gas customer service territory.
- The Company is currently working in collaboration with The Jordan Institute on qualifying projects that the institute is either currently involved with or aware of.

Additional Activities Planned:

- The Company will be more aggressively partnering with various regional business and trade associations, builders, contractors, installers and architects and engineers. The Company has established a goal of meeting with at least one new association, trade or business development contact every two weeks to offer a presentation and provide materials describing the Company's gas efficiency programs and the ways in which those programs can benefit their industries.
- The Company will be evaluating the potential effect of offering an "accelerator" incentive during the first half of 2012 in order to drive customer commitments earlier in the calendar year. The Company is also considering offering an enhanced incentive for customers who install multiple measures at once in order to encourage deeper savings investments.
- The Company will be performing periodic employee "call days" to specifically perform follow-up on past energy efficiency project leads that did not materialize, as well speak with past program participants where there may be additional efficiency project opportunities.
- As part of the Company's customer service, gas conversion and other external outreach, we will be more prominently including the Company's energy efficiency program information and the benefits to customers of participating in these programs. Also, the Company will be training all gas field personnel to recognize opportunities for implementing energy efficiency measures at the various locations and will help in promoting our programs to our C&I customers.

Northern Activities Planned for 2012:

- Direct mail outreach to heating trade allies to promote the High-Efficiency Heating and Hot Water program. Training will be conducted as well.
- Direct contact to home builders to promote the New Home Construction with Energy Star program with a focus on individually metered multi-family buildings.
- The Company will be evaluating offering a bonus incentive during the first half of 2012 in order to drive customer commitments earlier in the calendar year, as well as providing an enhanced incentive for customers who install multiple measures (i.e. weatherization and new heating equipment) at once in order to encourage deeper savings investments.
- For new connections, the Company will continue to send customers information regarding the energy efficiency programs encouraging participation in the High-Efficiency Heating and Water Heating Equipment program.
- Utilize direct mail, website, and newsletters for advertising the HPwES program.
- The Company will conduct follow-up on past energy efficiency project leads that did not materialize (customers that received audits).