Rate G & Rebates, Water Treatment Plants

Paul Hausmann - Eversource

SLOW SAND FILTRATION FACILTY AND WELL # 2

Maximum Contaminant Level or MCL: The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or MCLG: The level of contaminant in drinking water below, which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Contaminant	Date Tested	Unit	MCL	MCLG	Detected Level	Range	Major Sources
INORGANIC CONTAMINANTS - Water Treatment Plant and Well #2							
Barium	10/20/11	ppm	2	0	0053		Erosion of Natural Deposits
Copper	10/21/10	ppm	1.3	0	.0132		
Fluoride	11/14/11	ppm	4		.32		
Sodium	10/21/10	ppm	250		10.6		By-Product of Drinking Water Treatment Process
Sulfate	11/14/11	ppm	250		2.3		
Nitrate	11/14/11	ppm	10	0	.059		Run off from Fertilizer use
Nitrite	11/14/11	ppm	1	0	ND		
VOLATILE ORGANIC COMPOUNDS - Water Treatment Plant							
Chloroform	08/04/10	ppb	none set		33		By-Product of Drinking Water Chlorination
Xylene	08/05/10	ppb	10	0	1.1		
Bromodich-loromethane	09/03/10	ppb	none set		1.0		By-Product of Drinking Water Chlorination


kWh – like odometer
kW – like speedometer
ABS
×1000 RPM
MPH
FUEL DOOR

Rates for small commercial customers whose monthly demand does not exceed 100 kilowatts (kW) **Rate G**

Rates for customers whose demand does not exceed 1,000 kW **Rate GV**

Rates for customers whose demand is greater than 1,000 kW. **Rate LG**

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DBA EVERSOURCE ENERGY
Summary of Rates Effective July 1, 2016

Rate	Blocks	Distribution Charge	Transmission Charge	Stranded Cost Recovery Charge	System Benefits Charge	Electricity Consumption Tax	Total Delivery Service	Energy Service Charge	Total Rate
G	Single phase customer charge	$ 15.12					$ 15.12		$ 15.12
	Three phase customer charge	$ 30.23					$ 30.23		$ 30.23
	Load charge (over 5 KW)	$ 8.86	$ 6.17	$ 0.12			$ 15.15		$ 15.15
	First 500 KWH	$ 0.07097	$ 0.02227	$ 0.00056	$0.00330	$ 0.00055	$ 0.09765	$0.10950	$ 0.20715
	Next 1,000 KWH	$ 0.01758	$ 0.00838	$ 0.00056	$0.00330	$ 0.00055	$ 0.03037	$0.10950	$ 0.13987
	All additional KWH	$ 0.00622	$ 0.00449	$ 0.00056	$0.00330	$ 0.00055	$ 0.01512	$0.10950	$ 0.12462

Rate	Blocks	Total Delivery Service	Energy Service Charge	Total Rate
G	Single phase customer charge	$ 15.12		$ 15.12
	Three phase customer charge	$ 30.23		$ 30.23
	Load charge (over 5 KW)	$ 15.15		$ 15.15
	First 500 KWH	$ 0.09765	$0.10950	$ 0.20715
	Next 1,000 KWH	$ 0.03037	$0.10950	$ 0.13987
	All additional KWH	$ 0.01512	$0.10950	$ 0.12462

Eversource NH $0.10950/KWH

NEXTERA ENERGY SERVICES NH LLC
CONSTELLATION ENERGY SERVICES, INC

Rate	Blocks	Total Delivery Service
G	Single phase customer charge	$ 15.12
	Three phase customer charge	$ 30.23
	Load charge (over 5 KW)	$ 15.15
	First 500 KWH	$ 0.09765
	Next 1,000 KWH	$ 0.03037
	All additional KWH	$ 0.01512

Meter #	Read Date	KWH Use	Demand
S74515353	06/17/2016	16705	51.2
S74515353	05/10/2016	11570	51.2
S74515353	04/11/2016	1432	51.2
G56622518	04/07/2016	11220	51.0
G56622518	03/08/2016	12240	51.2
G56622518	02/09/2016	10480	51.2
G56622518	01/12/2016	12780	51.0
G56622518	12/09/2015	10160	51.0
G56622518	11/09/2015	9340	51.0
G56622518	10/13/2015	12080	51.0
G56622518	09/10/2015	14280	51.2
G56622518	08/13/2015	17520	51.2
G56622518	07/10/2015	14460	51.2
		154267	664.6
CONSTELLATION ENERGY SERVICES, INC			

Meter #	Read Date	KWH Use	Demand
S74515767	06/17/2016	4448	10.5
S74515767	05/18/2016	4701	10.4
S74515767	04/19/2016	5588	11.3
S74515767	03/18/2016	3184	12.4
S74515767	03/01/2016	4659	17.7
S74515767	02/01/2016	1359	9.3
D87802056	01/22/2016	2920	11.8
D87802056	01/04/2016	5160	10.4
D87802056	12/01/2015	3660	10.0
D87802056	11/02/2015	3860	8.2
D87802056	10/02/2015	3540	14.8
D87802056	09/02/2015	3540	15.0
D87802056	08/03/2015	3920	10.4
D87802056	07/01/2015	3740	11.8
		54279	164.0
CONSTELLATION ENERGY SERVICES, INC			

Small Business Energy Solutions

Program Focus: Assist small business customers in bridging the financial challenges of installing energy efficient equipment.

- Lighting, refrigeration, controls, HVAC, space heating, water heating, kitchen equipment, insulation and more.
- Fixed and custom **incentives** to help defray project costs.
- Provide direct install vendors to perform work.
- Primary targets – restaurant & food service, small office & retail, convenience & grocery stores.

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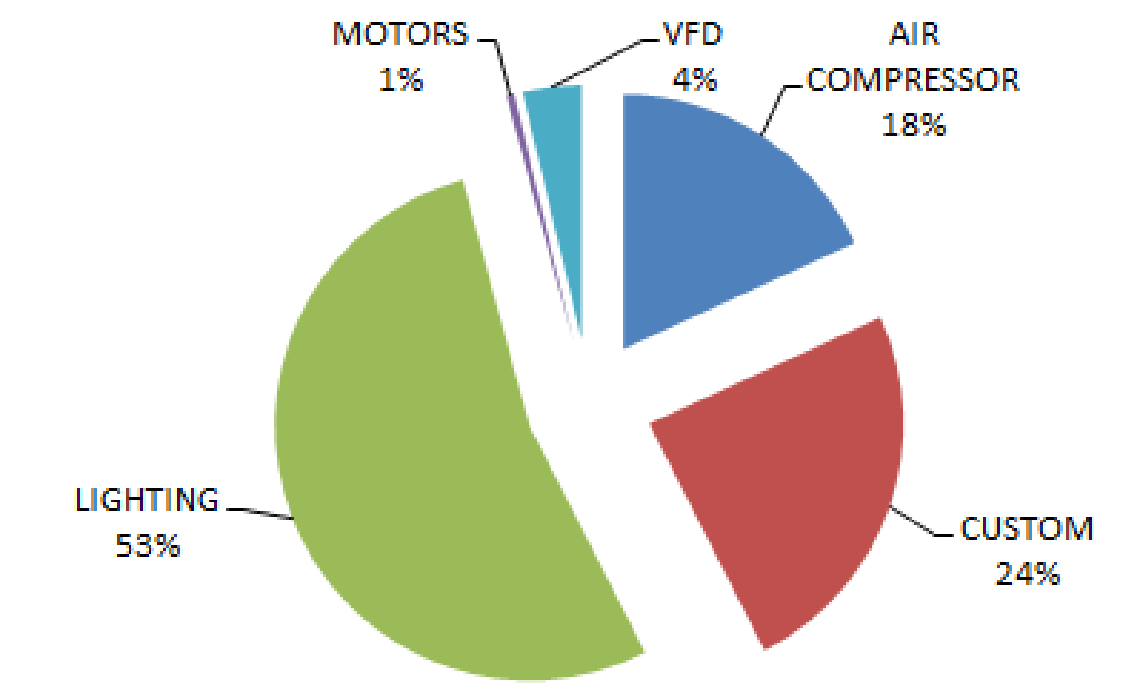
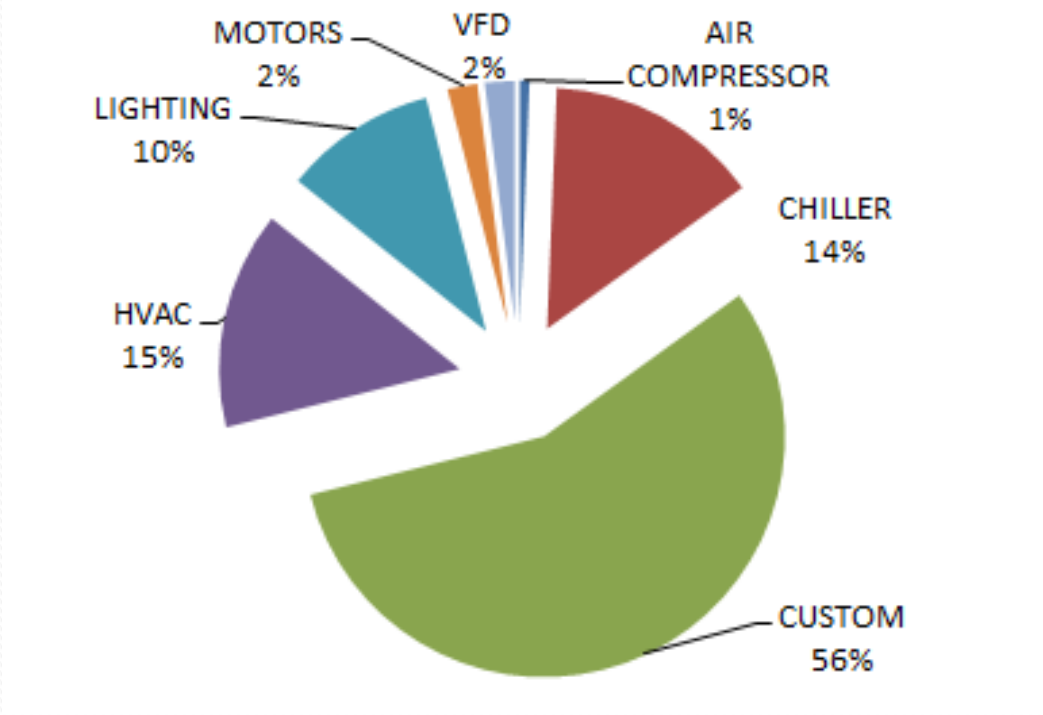
How are these EE programs funded?

The current charge is $0.0033 per kilowatt-hour (kWh) and supports energy efficiency and low income bill paying assistance.

Retrofit Program 2014



New Construction 2014



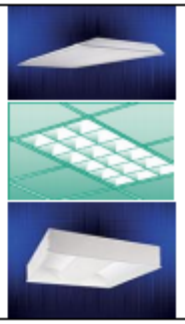
Lighting

Interior lighting

- ✓ LED light fixture replacement(s)
- ✓ Occupancy controls for single office, conference rooms and locker rooms

Exterior lighting

- ✓ Garage lighting with LED and high/low occupancy controls
- ✓ Wall packs with LED
- ✓ Walkway and parking lot lighting with LED

20L	LED High Efficiency Interior Fixtures & Retrofit Kits	**$60**	1x4, 2x2 and 2x4 Prismatic, Parabolic, Recessed Direct and Recessed Indirect fixtures Fixtures are required to be listed by Design Lights Consortium (for more information see www.designlights.org)	**32**	
50L	LED Down Light Fixtures & Retrofit Kits	**$25**	Eligible LED Down Lights are required to be less than 25 watts and hardwired or GU-24 (pin) base. Screw Base LED Down Light Retrofit Kits are also eligible. Replacement lamps not eligible. Fixtures are required to be listed by Design Lights Consortium (for more information see www.designlights.org)	**14**	

80L	LED Exterior Wall, Post, Ground, and Arm Mount Floods and Fixtures& Retrofit Kits	**$75**	Wattage range is 25 watts to 99 watts Must be automatically controlled to avoid daylight operation. Fixtures are required to be listed by Design Lights Consortium (for more information see www.designlights.org).	**60**	
81L	LED Exterior Wall, Post, Ground, and Arm Mount Floods and Fixtures & Retrofit Kits	**$100**	Minimum wattage is 100 watts Must be automatically controlled to avoid daylight operation. Fixtures are required to be listed by Design Lights Consortium (for more information see www.designlights.org).	**100**	

90L	LED Pole Mounted Parking, or Roadway Fixtures & Retrofit Kits	**$150**	Wattage range is 45 watts to 149 watts Must be automatically controlled to avoid daylight operation. Fixtures are required to be listed by Design Lights Consortium (for more information see www.designlights.org).	**100**	
91L	LED Pole Mounted Parking, or Roadway Fixtures & Retrofit Kits	**$200**	Minimum wattage is 150 watts Must be automatically controlled to avoid daylight operation. Fixtures are required to be listed by Design Lights Consortium (for more information see www.designlights.org).	**150**	
2	Wall mounted Occupancy/Vacancy Sensors	**$20 per control**	Occupancy Sensors must operate as Automatic On, and Automatic Off or Manual On and Off. Sensors are wall mounted devices only. Not recommended in multi stall restrooms, locker rooms, stairwells or rooms of greater than 250 square feet.	**45** **(total)**	

HVAC

MINIMUM EFFICIENCY LEVELS & INCENTIVES					
		Tier 1		Tier 2	
Tons	BTUH	Minimum Efficiency for Incentive	Tier 1 Incentive $/ton	Minimum Efficiency for Incentive	Tier 2 Incentive $/ton
Unitary AC and Split Systems (new condenser and new coil)					
< 5.4	< 65,000 Split System Packaged System	14.0 SEER or 12.0 EER 14.0 SEER or 11.6 EER	$70	15.0 SEER or 12.5 EER 15.0 SEER or 12.0 EER	$125
≥ 5.4 to < 11.25	≥ 65,000 to < 135,000	11.5 EER and 12.8 IEER	$50	12.0 EER and 13.8 IEER	$80
≥ 11.25 to < 20	≥ 135,000 to < 240,000	11.5 EER and 12.3 IEER	$50	12.0 EER and 13.0 IEER	$80
≥ 20 to < 63	≥ 240,000 to < 760,000	10.3 EER and 11.1 IEER	$30	10.6 EER and 12.1 IEER	$50
≥ 63	≥ 760,000	10.2 EER and 11.4 IEER	$50	N/A	N/A

MOTORS

OPEN DRIP PROOF (ODP)				
HP	Minimum Efficiency			Incentive ($)
	1200 RPM	1800 RPM	3600 RPM	
1	82.5%	85.5%	77.0%	$75
1.5	86.5%	86.5%	84.0%	$95
2	87.5%	86.5%	85.5%	$105
3	88.5%	89.5%	85.5%	$105
5	89.5%	89.5%	86.5%	$110
7.5	90.2%	91.0%	88.5%	$150
10	91.7%	91.7%	89.5%	$175
15	91.7%	93.0%	90.2%	$225
20	92.4%	93.0%	91.0%	$290
25	93.0%	93.6%	91.7%	$320
30	93.6%	94.1%	91.7%	$365
40	94.1%	94.1%	92.4%	$475
50	94.1%	94.5%	93.0%	$570
60	94.5%	95.0%	93.6%	$655
75	94.5%	95.0%	93.6%	$820
100	95.0%	95.4%	93.6%	$1,025
125	95.0%	95.4%	94.1%	$1,300
150	95.4%	95.8%	94.1%	$1,810
200	95.4%	95.8%	95.0%	$2,110

TOTALLY ENCLOSED FAN COOLED (TEFC)				
HP	Minimum Efficiency			Incentive ($)
	1200 RPM	1800 RPM	3600 RPM	
1	82.5%	85.5%	77.0%	$85
1.5	87.5%	86.5%	84.0%	$95
2	88.5%	86.5%	85.5%	$100
3	89.5%	89.5%	86.5%	$110
5	89.5%	89.5%	88.5%	$125
7.5	91.0%	91.7%	89.5%	$170
10	91.0%	91.7%	90.2%	$205
15	91.7%	92.4%	91.0%	$270
20	91.7%	93.0%	91.0%	$340
25	93.0%	93.6%	91.7%	$405
30	93.0%	93.6%	91.7%	$465
40	94.1%	94.1%	92.4%	$640
50	94.1%	94.5%	93.0%	$780
60	94.5%	95.0%	93.6%	$1,125
75	94.5%	95.4%	93.6%	$1,335
100	95.0%	95.4%	94.1%	$1,690
125	95.0%	95.4%	95.0%	$2,200
150	95.8%	95.8%	95.0%	$2,625
200	95.8%	96.2%	95.4%	$3,295

Variable frequency drives (VFDs)

[4] INCENTIVES	
HP Controlled by Each VFD	**Maximum Incentives ($)**
3	$650
5	$1,050
7.5	$1,150
10	$1,350
15	$1,500
20	$1,700
25	$2,050
30	$2,250
40	$2,800
50	$3,100
60	$3,300
75	$4,200
100	$4,400

[4] INCENTIVES	
HP Controlled by Each VFD	**Maximum Incentives ($)**
3	$500
5	$800
7.5	$900
10	$1,000
15	$1,125
20	$1,575

Smart Start Financing

- Eversource applies rebates for all eligible retrofit measures.
- Eversource finances the remaining costs associated with the purchase and installation of approved measures.
- A Smart Start Purchase and Installation Charge, calculated to be less than the monthly savings, is added to your monthly electric bill until all costs are repaid.
- The new energy efficient, environmentally friendly equipment you install through this program pays for itself over time.

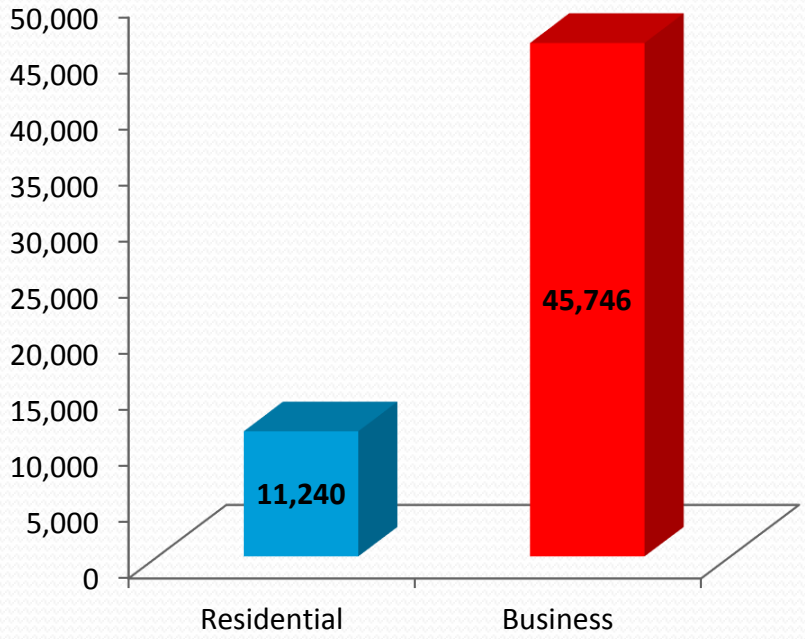
50/50 Program

- A qualified energy contractor audits your facility free of charge, and provides you with a written proposal detailing the recommended energy-efficient improvements.
- Eversource reviews the proposal to ensure that the proposed project is cost-effective and appropriate for your facility.
- We pay up to 50 percent* of project costs for installation of identified energy-efficient measures.
- The qualified energy contractor installs the measures, disposes of your old lamps and ballasts, and provides warranty service.
- Eversource inspects the project to verify that the equipment was installed and is working, and that the job was done to your satisfaction.

2013 Annual Savings

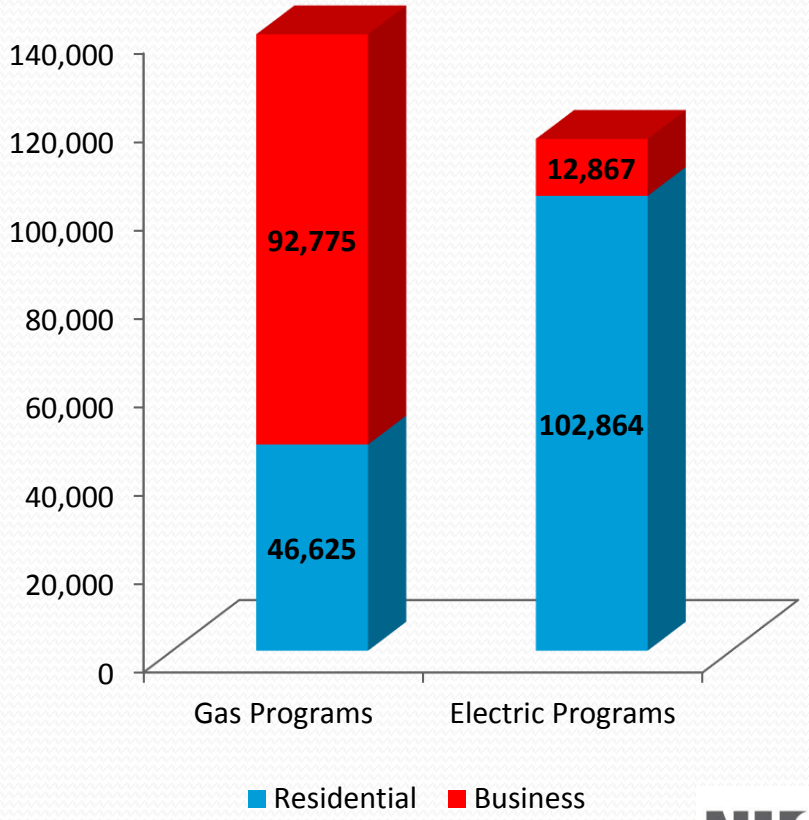
Electric – MWH

Total = 56,986
Dollars Saved = $8.0 Million*



Gas & Electric - MMBTU

Gas Programs = 139,400; Electric Programs = 115,731
Total Dollars Saved (Gas Programs) = $1.3 Million*
Total Dollars Saved (Electric Programs) = $2.9 Million*



*Based on NH OEP's July 1, 2013 average electricity price of $0.1399/kWh and average natural gas price (Tier 2) of $0.96/therm and oil, liquid propane, kerosene and wood.

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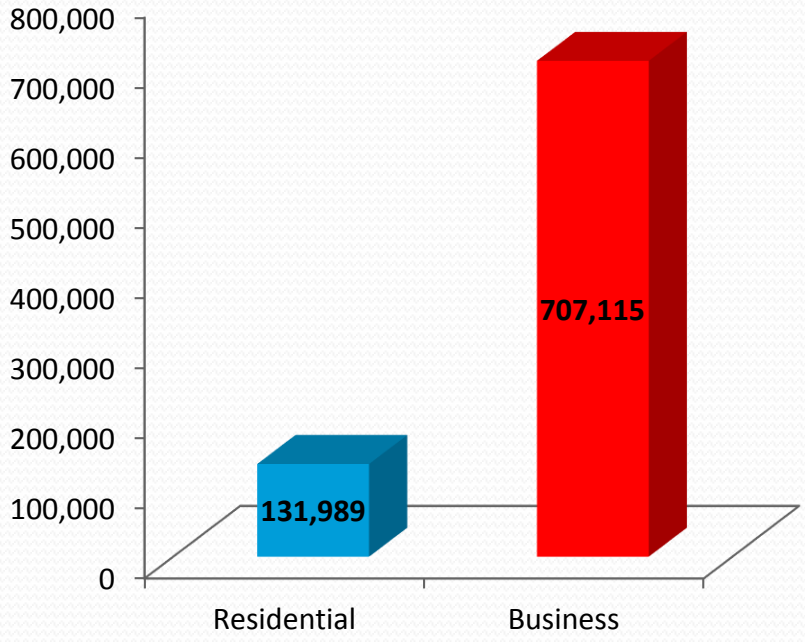
2013 Lifetime Savings

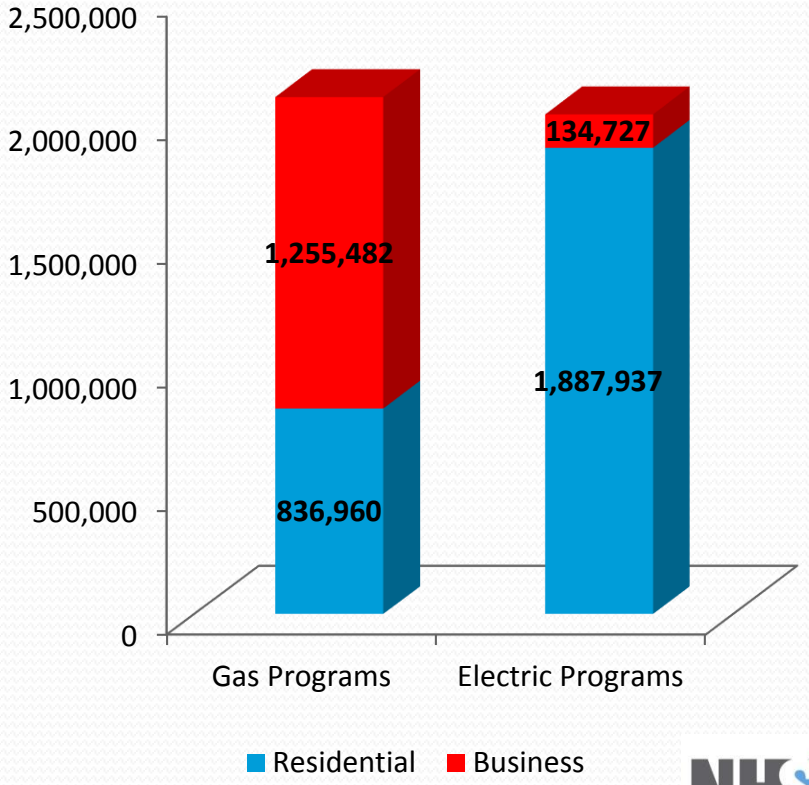
Electric – MWH

Total = 839,104
Dollars Saved = $117.4 Million*



Gas & Electric - MMBTU

Gas Programs = 2.1 Million; Electric Programs = 2.0 Million
Total Dollars Saved (Gas Programs) = $20.1 Million*
Total Dollars Saved (Electric Programs) = $50.0 Million*



*Based on NH OEP's July 1, 2013 average electricity price of $0.1399/kWh and average natural gas price (Tier 2) of $0.96/therm and oil, liquid propane, kerosene and wood.

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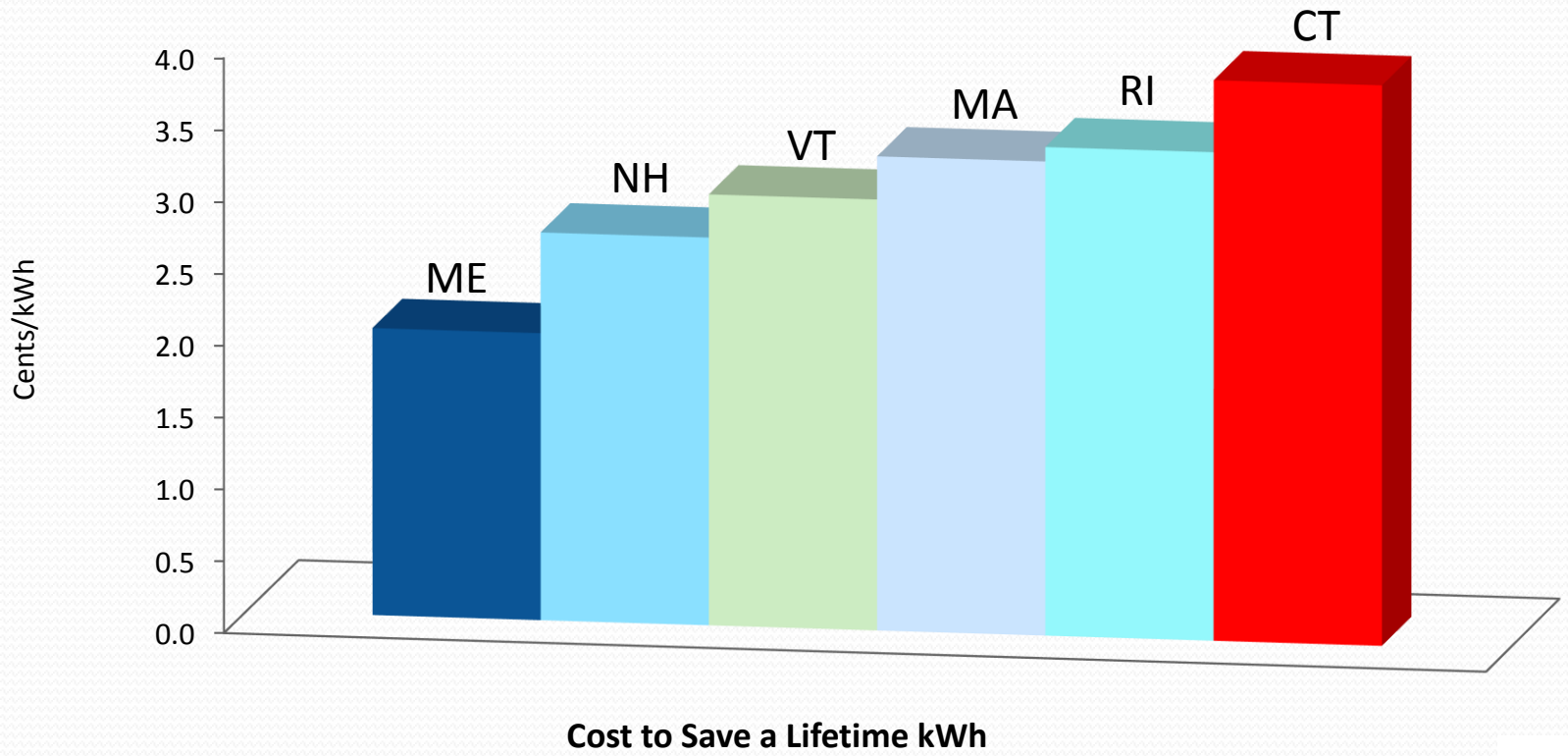
Overall Energy Efficiency Program Cost Effectiveness by State

NH's energy efficiency program has attained more kilowatt-hour savings for every dollar spent than most of the New England states.



Source: Three-year average (2010-2012) based on information provided by Program Administrators for ISO-NE's Draft Final Energy Efficiency Forecast 2018-2023 dated March 31, 2014.

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