

An Overview of the NHSaves Energy Efficiency Programs

Presented to the Energy Efficiency & Sustainable Energy Board
by the NH Electric and Gas Utilities
March 18, 2016



WHEN NEW HAMPSHIRE SAVES, *we all win.*

Programs for ALL Customers



Adaptable and Responsive to Market Needs

- Incentives for installing qualified energy savings products



- Turnkey solutions to identify savings opportunities and perform work

- Education and workforce training



Engage with Key Market Influencers

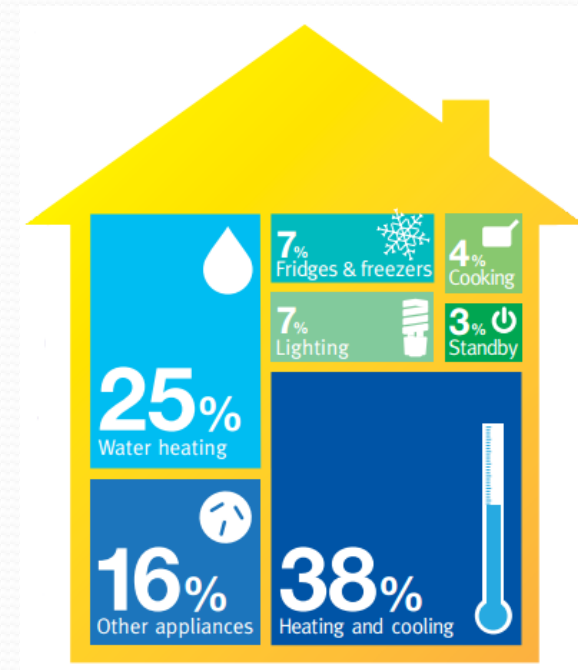
- Architects
- Builders
- Contractors
- Electricians
- Manufacturers/Suppliers
- Retailers



Research & Support of Emerging Technologies



Quality Assurance & Post Installation Inspections to Validate Savings Achieved



High Standards of Accountability

- Annual Financial audits by NH PUC
- Annual Certification audits by ISO-NE of peak demand reductions for forward capacity market participation
- Quarterly reporting to NH PUC and stakeholders of actual program results versus planned results
- Process and impact evaluations performed by third party evaluators to verify energy savings

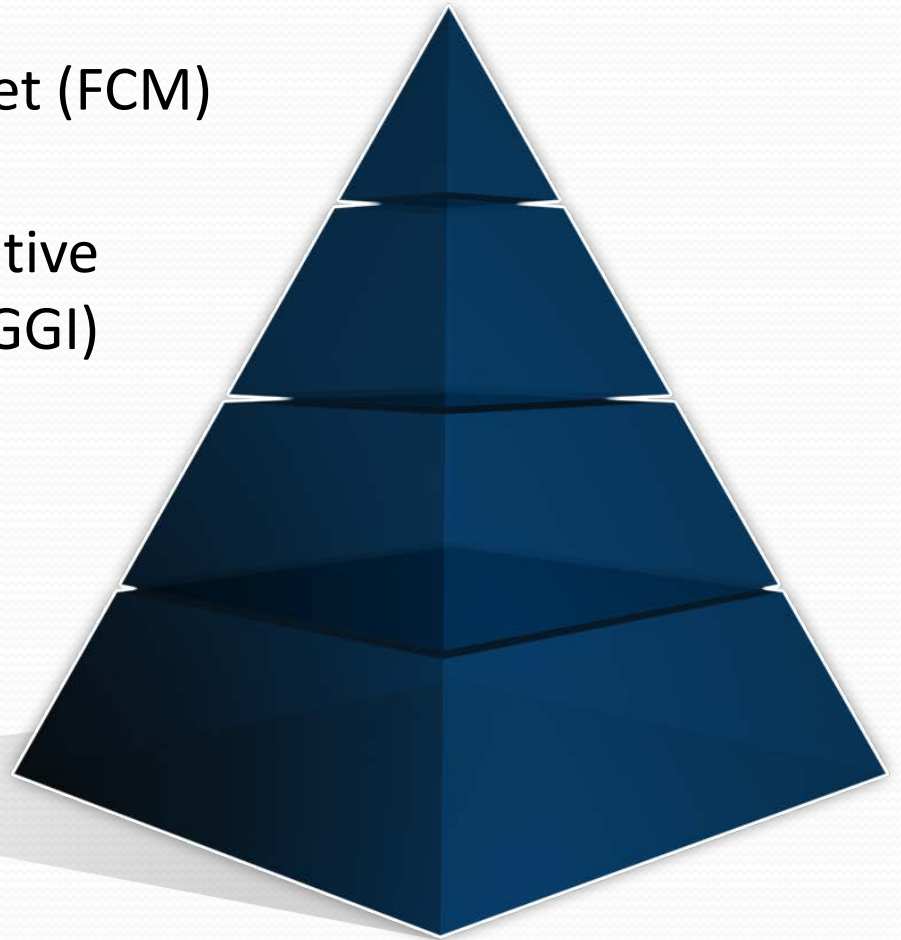
Funding Sources

Forward Capacity Market (FCM)

Regional Greenhouse Gas Initiative
(RGGI)

Gas Local Distribution
Adjustment Clause (LDAC)

System Benefits Charge
(SBC)



EVERSOURCE

 **Liberty Utilities**

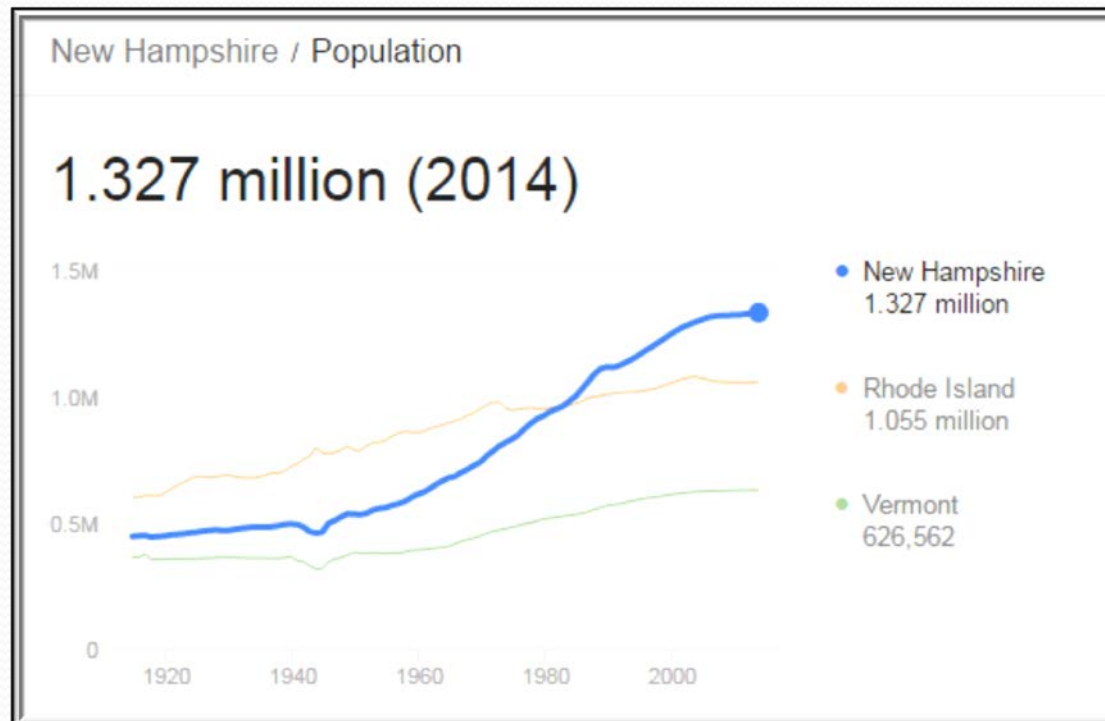
your **NEW HAMPSHIRE**
Electric Co-op
A Touchstone Energy
Cooperative 

 **Unitil**
energy for life



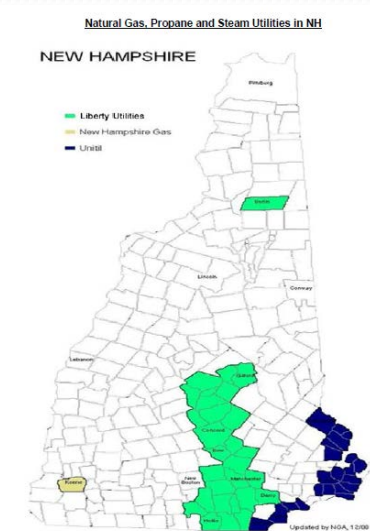
Impacts of the Electric & Gas Programs 2002 - 2015

Over 1.3 million EE measures and projects completed



Saved enough electricity and natural gas to:

- Power the entire City of Manchester for 13 years
- Heat all of NH's residential natural gas customers for over two years



Saved electric customers:

- **\$1.7 Billion** in energy costs
- Savings are **6X** the costs of programs



Saved natural gas customers:

- **\$203 Million** in energy costs
- Savings are nearly **4X** the costs of programs



Reduced emissions equivalent to:

- Taking **1.8 million** passenger cars off the road for one year



Saved energy at a cost of:

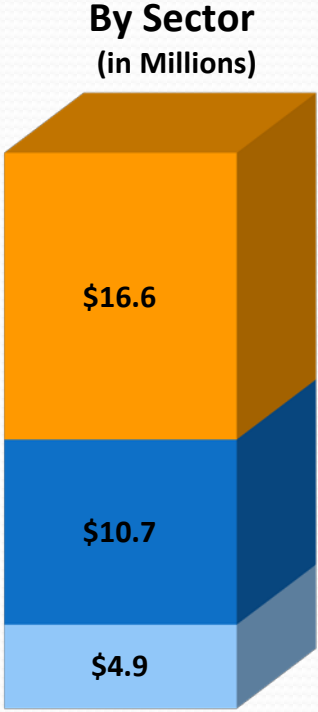
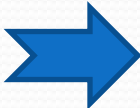
- **Electricity = \$0.0235** per kWh
 - compared to current cost of \$0.14 per kWh
- **Natural Gas = \$0.213** per therm
 - compared to current cost of \$0.83 per therm

Highlights

2015 Program Expenditures



\$32.2M



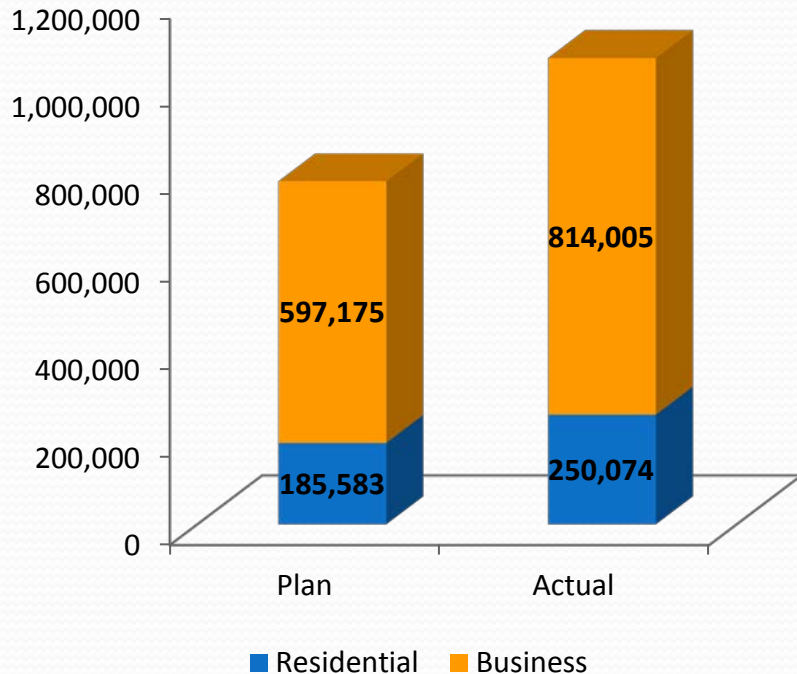
■ SBC ■ RGGI ■ FCM ■ Gas LDAC

■ Income Eligible ■ Residential ■ Business

2015 Savings – Electric Utilities

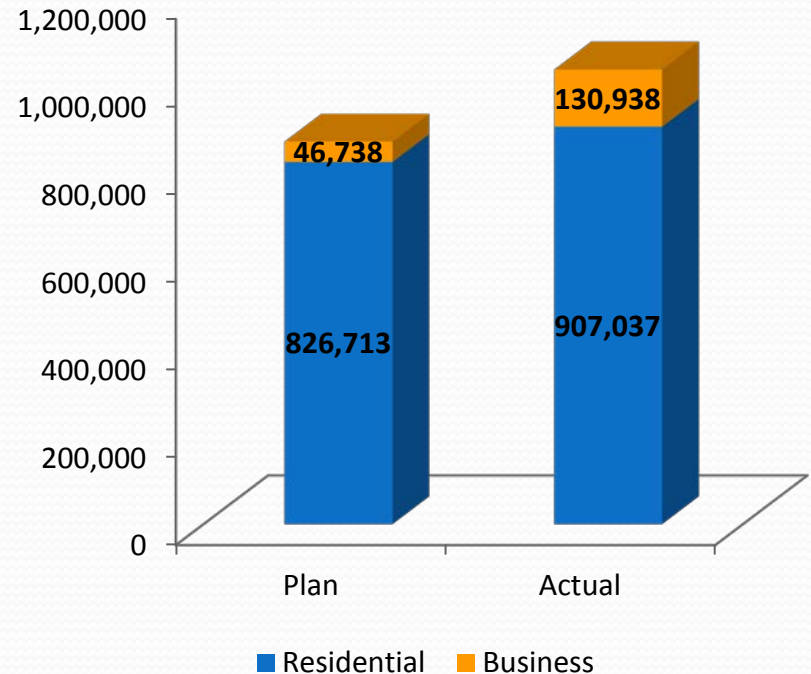
MWh

Plan = 782,758 Actual = 1,064,079 → 136%
 Total dollars saved = \$149.0 Million



MMBtu

Plan = 873,451 Actual = 1,037,975 → 119%
 Total dollars saved = \$18.3 Million

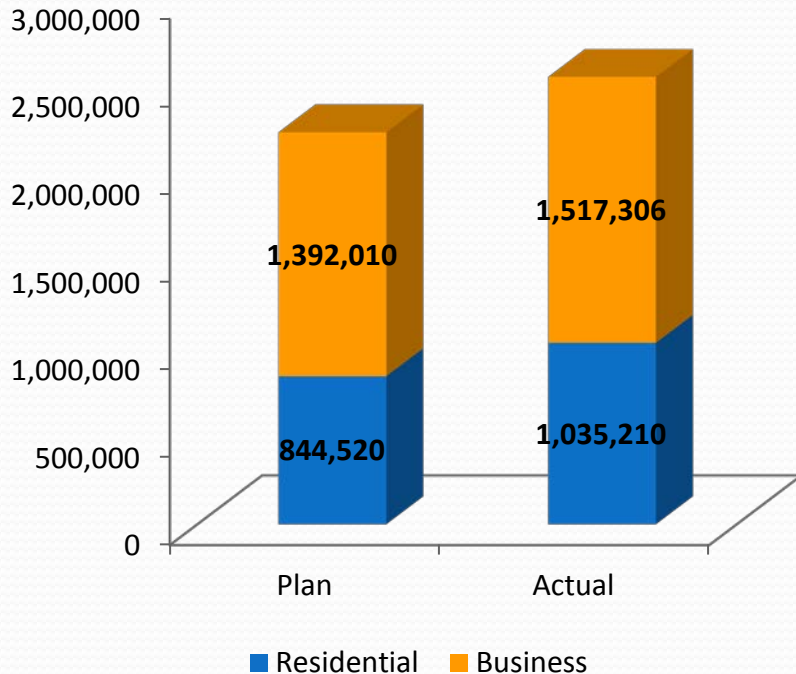


*Lifetime savings based on average electricity price of \$0.14/kWh, average natural gas price (Tier 2) of \$0.83/therm, and average prices for oil, liquid propane, kerosene and wood.

2015 Savings – Gas Utilities

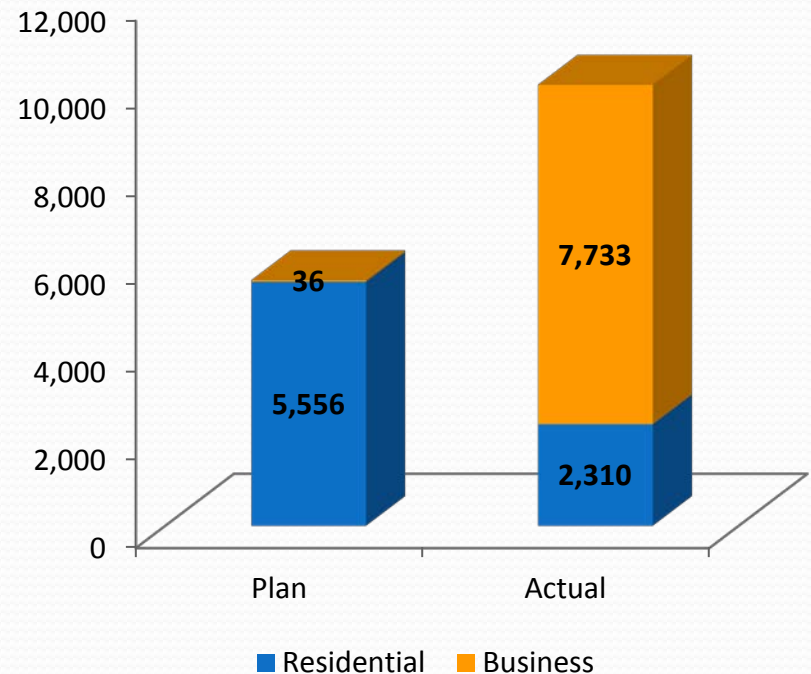
MMBtu

Plan = 2,236,530 Actual = 2,552,516 → 114%
 Total dollars saved = \$21.2 Million*



MWh

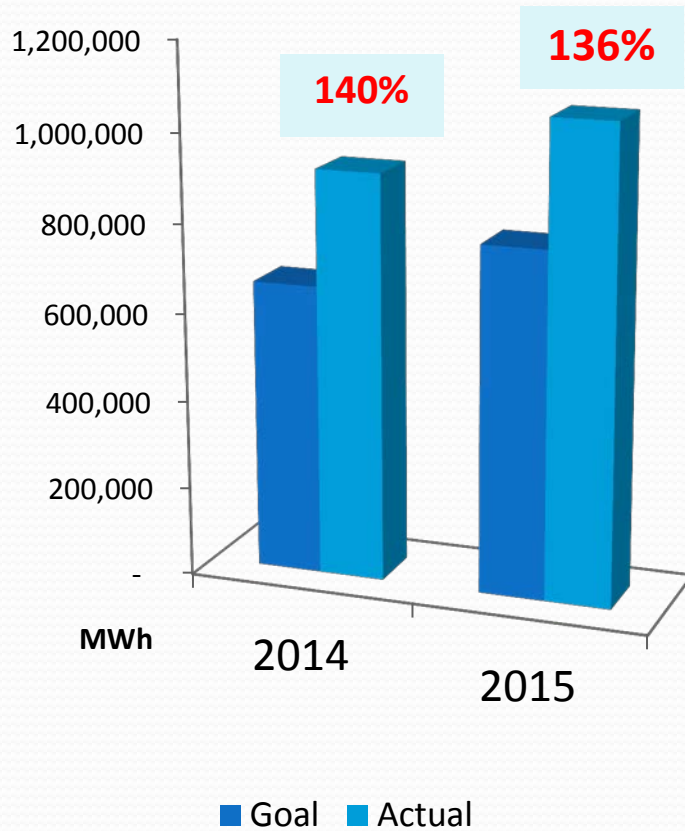
Plan = 5,592 Actual = 10,043 → 180%
 Total dollars saved = \$1.4 Million*



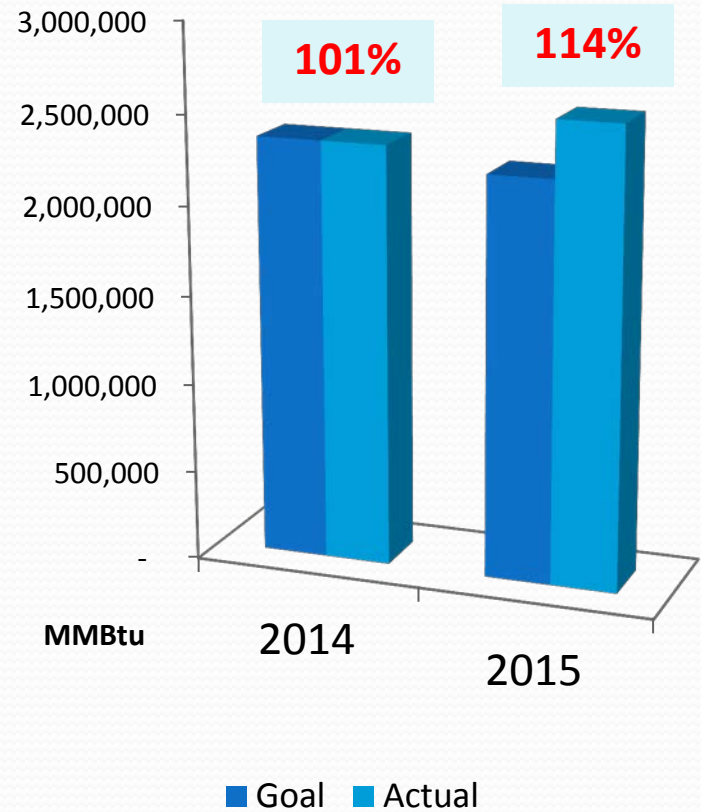
*Lifetime savings based on average electricity price of \$0.14/kWh, average natural gas price (Tier 2) of \$0.83/therm, and average prices for oil, liquid propane, kerosene and wood.

2014 & 2015 Results

Electric



Gas



Multi-channel, segment-specific communications to customers and trade

Smart Energy Solutions
Save Energy and Money
with Unitil Efficiency Programs for Your Business.

Learn more

5 Ways to Save Energy
Take advantage of the ways you can make your home more energy efficient.

Learn more

Tankless Water Heaters: Hot Water on Demand
Tankless units only heat water when you need it, saving energy and money.

Learn more

Fact or Fable? A Dishwasher Is More Expensive Than Hand Washing
Hand washing may be fast and convenient, but do they use more water?

Up to \$25*
PROGRAMMABLE THERMOSTATS

Up to \$100*
WI-FI ENABLED THERMOSTATS

UP TO \$100* In Rebates
Programmable and Wi-Fi Enabled Thermostats
Wi-Fi connection must be established

REBATES FOR RESIDENTIAL CUSTOMERS OF NEW HAMPSHIRE

GasNetworks
Energy saving solutions from your local gas company

Liberty Utilities

EVERSOURCE Liberty Utilities NH Hampshire Electric Coop Unitil

ENERGY STAR PARTNER

The following is a list of EPC certified residential auditing firms that have met the minimum qualifications for the NH iEPiES program. The list is provided for informational purposes only. The NH iEPiES program DOES NOT endorse any of these auditors nor guarantee that these are the only auditors in the area. For more information on auditors in your area please visit EPC.org, or REPA-NH.org.

Air Energy Services
Dan Fanning
28 Elmwood Road, Hancock, NH 03446
603-836-8265
Dan5@airenergy.com
http://www.airenergy.com

Build Back to Green
Bruce Merritt
10 Ranning Street, West Lebanon, NH 03784
603-386-1946
buildbacktogreen@gmail.com
www.buildbacktogreen.com

New Hampshire 2015
Liberty Utilities

Commercial and Industrial Gas Energy Efficiency

Prescriptive Space and Water Heating
Installing a natural gas or water heating system will provide a high level of measurement and your business will also receive rebates to businesses who install efficient versions of the following equipment (see rebate schedule for equipment list):

Gas-Fired Kitchen Equipment
Energy efficient help lower investment and operation improve the performance of their facilities and equipment while reducing energy costs. Incentives are available to cover a portion of the cost for installing high efficiency natural gas equipment versus standard efficiency equipment.

Gas-Fired Kitchen Equipment

Eligible:
• High BTU
• High BTU
• High BTU
• High BTU
• ENRCC
• ENRCC
• ENRCC

Prescript:
Liberty City
• ENRCC
• ENRCC
• ENRCC

Steam Trap
Liberty City
• ENRCC
• ENRCC
• ENRCC

Why did you purchase a clothes washer at this time?

• Upgrade
• Wash better
• Water savings
• Better cleaning performance
• Recycling

When was the most recent purchase of an ENERGY STAR® certified clothes washer? (Please check all that apply.)

• Energy savings
• Longer useful life
• Greater water efficiency
• Greater capacity
• Greater energy efficiency
• Greater water efficiency
• Greater energy efficiency
• Greater water efficiency
• Greater energy efficiency
• Greater water efficiency
• Greater energy efficiency

How often do you use the rebates to purchase a new clothes washer?

• Yes
• No

Has the rebate influenced your purchase decision?

• Yes
• No

Has the rebate influenced your purchase decision?

• Yes
• No

How did you purchase an ENERGY STAR® certified clothes washer? (Check all that apply.)

• Replaced old
• Moved into new home
• Moved to your utility bill
• Replaced old appliance
• Other

NHSVES

EVERSOURCE Liberty Utilities NH Hampshire Electric Coop Unitil

Unitil
energy for life

Smart Energy Solutions
Save Energy and Money
with Unitil Efficiency Programs for Your Home.

Liberty Utilities

Natural Gas Connection: Res...

Learn more

Learn more

MAIL-IN REBATE

\$30 OFF

ON ENERGY STAR® CERTIFIED CLOTHES WASHERS

NHSVES

EVERSOURCE Liberty Utilities NH Hampshire Electric Coop Unitil

EVERSOURCE

P.O. Box 332
Manchester, NH 03105-0332

Home Energy Report

Account number: [REDACTED]
Report period: 12/04/15-03/10/16

This report gives you contact on your energy use to help you make smart energy saving decisions. For a full list of energy saving products and services for purchase, including rebates from Eversource, visit eversource.com. If you have questions or wish to go paperless, call (604) 675-6238 or email energyreportsNH@eversource.com.

Last 3 Months Neighbor Comparison

You used 8% more electricity than your neighbors.

Category	Value
Efficient neighbors	1,840 kWh
All neighbors	2,061 kWh
YOU	2,220 kWh

*With a 100-Watt bulb burning for 10 hours uses 1 kilowatt-hour.

Who are your Neighbors?

• All Neighbors: Approximately 100 occupied nearby homes that are similar in size to yours (per 100 sq ft of electric service load).

• Efficient Neighbors: The most efficient 20 percent from the "All Neighbors" group.

Personal Comparison

How you're doing compared to last year:

Year	Usage (kWh)
JAN - FEB 2015	2,718 kWh
YOU	2,220 kWh
JAN - FEB 2016	1,943 kWh

*With a 100-Watt bulb burning for 10 hours uses 1 kilowatt-hour.

So for this year, you used 32% less electricity than last year.
You're on pace to use less in 2016.
Looking for ways to save even more? Visit www.eversource.com

Turn over for savings →

RESIDENTIAL
INSTANT LED COUPON

\$3 OFF

Valid On Select 1-3 Packs of ENERGY STAR® LED Bulbs

REDEEMABLE AT PARTICIPATING RETAILERS ONLY AT TIME OF PURCHASE. See reverse side for details.

NHSVES
we all win

Weatherized 4,113 homes (1,036 income eligible)

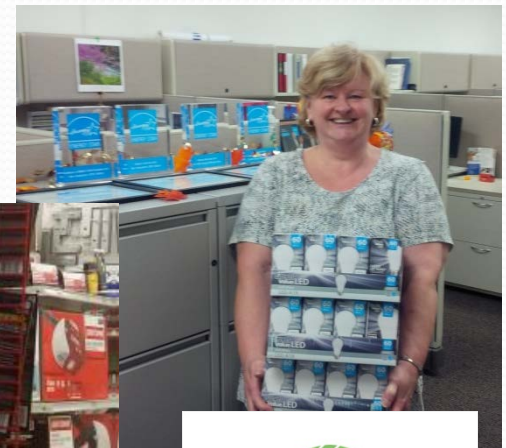


378,436 ENERGY STAR® Certified LEDs & CFLs Incented

**AUBUCHON
HARDWARE**



FAMILY DOLLAR



True Value

THE HOME DEPOT

Walmart

LOWE'S

16,834 of ENERGY STAR® Certified Products Incented



Supported Construction of 448 ENERGY STAR® Certified Homes



Completed 231 Municipal Projects



MONADNOCK REGIONAL
MIDDLE-HIGH SCHOOL
Home of the Huskies!

Completed 998 Small Business Projects



ippolitos furniture **L.L.Bean**



Completed 347 Large Business Projects

The Elliot

BAE SYSTEMS

Dartmouth-Hitchcock



NEW ENGLAND INDUSTRIES, INC.

WHELEN®



Sheridan



Precision Lumber Inc.



CONCORD MONITOR



Amphenol
Printed Circuits



Dartmouth



BURNDY®



Southern
New Hampshire
University




ST. JOSEPH
HEALTHCARE



Project Financing Assistance

Save Energy • Save Money • Improve Comfort



Residential Energy Efficiency Loan Program

A special financing plan for energy saving home improvements

Brought to you by your
NH Electric & Natural Gas Utilities
and their Lending Partners

NHSAVES
we all win

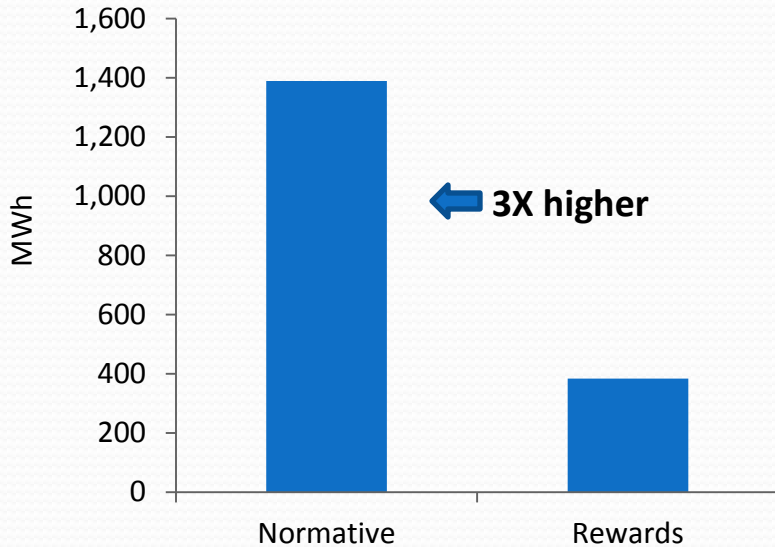
www.nhsaves.com

3 rd Party Financing	
Projects	47
Average APR Buy Down	\$607
Average Project Cost	\$9,300
Average Loan	\$6,400

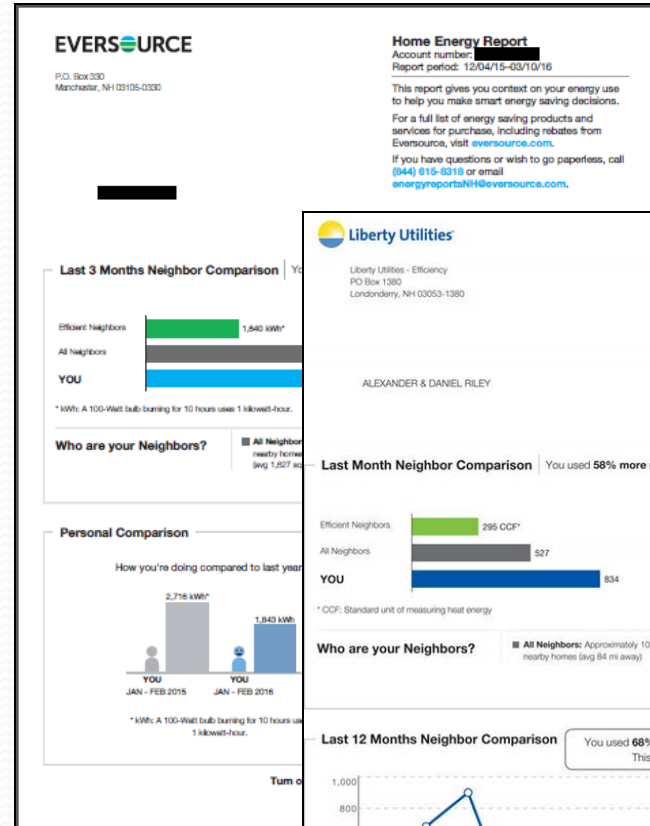


Home Energy Reports

Eversource Pilot Program



- Slight uplift in other residential energy efficiency Programs (0.4% of 7 MWh)
- Overall program satisfaction ranged from 71% (normative) to 76% (rewards)



ENERGY STAR® Sustained Excellence Award via EPA



Northeast Energy Efficiency Partnerships Business Leaders in Energy Efficiency



Concord Hospital



Dartmouth College



DevTech Labs



Holderness School

2016: A Look Ahead

- Waste Water Treatment Facilities' Partnership with DES & OEP
- Implementation of Retail and Large Business RGGI Grant funds
- Expanded marketing initiatives via NHSaves.com
- Expansion of retail lighting markdown partnerships



ANY QUESTIONS

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