

An Overview of New Hampshire's CORE Energy Efficiency Programs

Presented to the Energy Efficiency & Sustainable Energy Board
by the NH Electric and Gas Utilities
April 18, 2014



WHEN NEW HAMPSHIRE SAVES, *we all win.*

What are the CORE Programs?

- ❖ Portfolio of cost-effective electric and gas programs
- ❖ Available to all NH residents, businesses and municipalities
- ❖ Jointly coordinated, planned and administered by the local NH electric and gas utilities in collaboration with the Energy Efficiency Stakeholder Group
- ❖ Responsive to changes in the market since 2002 by supporting new technologies and delivering programs to address market barriers



Accountability and Verification

❖ Evaluated and audited on a regular basis

- Quality Assurance / Post Inspections
- NHPUC annual program audit
- Third-party program evaluations
- ISO-NE's Forward Capacity Market EE annual certification audit
- Quarterly Reporting of actual results vs. planned results

❖ Leverage energy efficiency funding

- Such as Federal Weatherization Assistance Funding for insulating homes where occupants are income eligible
- by participating in ISO-NE's Forward Capacity Market bringing \$11 million in additional EE services to New Hampshire since 2007

Impacts of the Electric Programs (2002 - 2013)



Saved 10.2 billion lifetime kWh, enough energy to power the city of Manchester for nearly 11 years



Provided customers with 990,000 efficiency products or services



Saved customers \$1.4 billion that can be reinvested in the NH economy
These savings are more than 6 times the cost of the CORE Energy Efficiency programs.



Reduced emissions equivalent to taking 1.3 million cars off the road for a year



Saved energy at an average cost of approximately 2.26 cents per lifetime kWh – as compared to the July 2013 average electricity retail price of 13.99 cents per kWh

Impacts of the Gas Programs (2003 - 2013)



Saved 16.7 million lifetime MMBTU's – enough energy to heat 216,728 homes



Provided customers with 52,872 efficiency products or services and reached customers in every city and town served by the NH gas utilities and conducted training for trade allies



Saved customers \$259.3 million that can be reinvested in NH economy. These savings are more than 7 times the cost of the CORE Energy Efficiency programs



Reduced emissions equivalent to taking 186,757 cars off the road for a year



Saved energy at an average cost of \$0.235 per lifetime therm – as compared to the average Tier 2 retail price of \$1.55 per therm in April 2014

Residential Programs

❖ Income Qualified Weatherization

- Help customers manage energy use through energy efficiency improvements to their homes
- Services provided at no charge, in collaboration with NH OEP and the NH Community Action Agencies

❖ Residential Weatherization

- Help customers improve the energy efficiency of their homes
- Services provided regardless of heating fuel, with focus on electrically heated and high energy use homes

Determine Your
Energy Efficiency



Residential Programs

❖ New Home Construction

- Encourage builders and homeowners to build Energy Star homes, which are at least 15% more efficient than code built homes
- Homes earning the Energy Star label undergo rigorous inspections, testing and verification
 - (Received US DOE's 2014 ENERGY STAR Partner of the Year Award!)

❖ Lighting and Appliance Programs

- Increase use of high efficiency lighting, appliances, heating and cooling equipment
- Encourage retailers to ensure ENERGY STAR products are available at stores through statewide retail network, trained sales staff and point of sale information
- Encourage proper recycling of CFLs, refrigerators, freezers and room air conditioners

Business & Municipal Programs

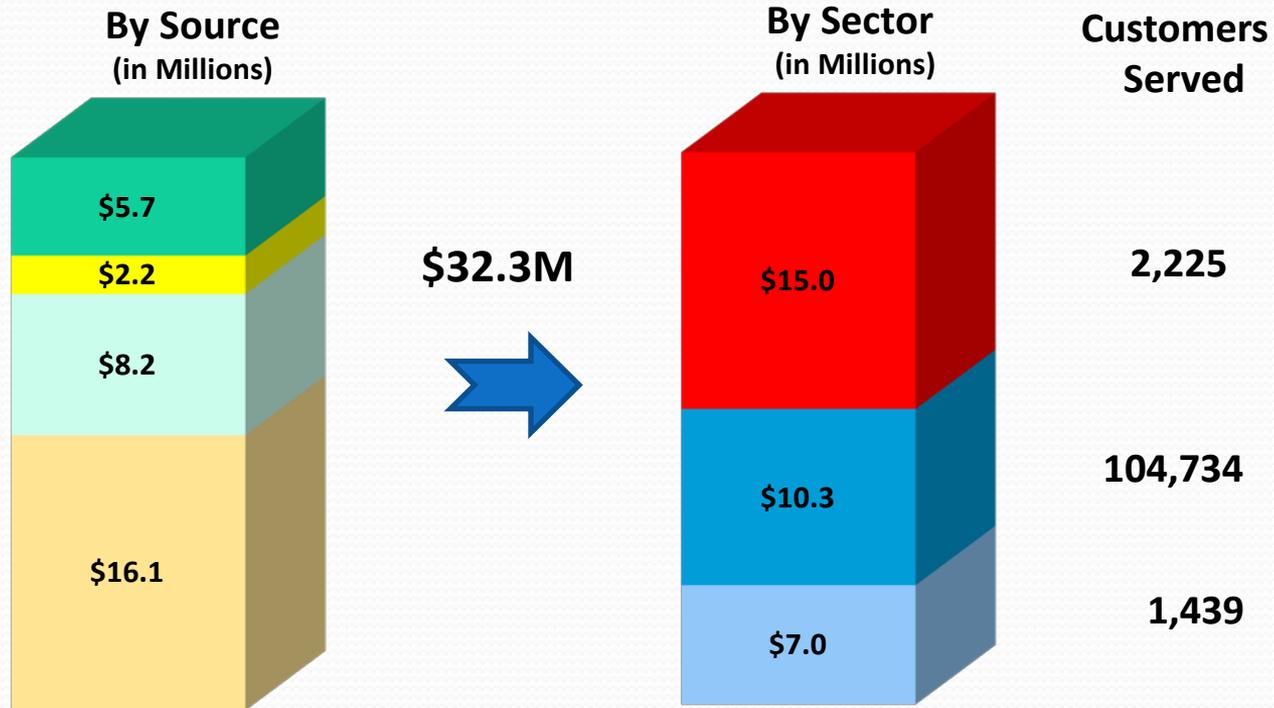
❖ Small & Large Business

- Assist business customers in bridging the financial challenges of installing energy efficient equipment, including fuel neutral measures
- Includes energy audits and financial incentives for upgrading older inefficient equipment and replacing end-of-life equipment

❖ Municipal (new for 2014)

- Targets municipal customers and the five NH municipal utilities
- Includes technical assistance services

2013 Program Expenditures



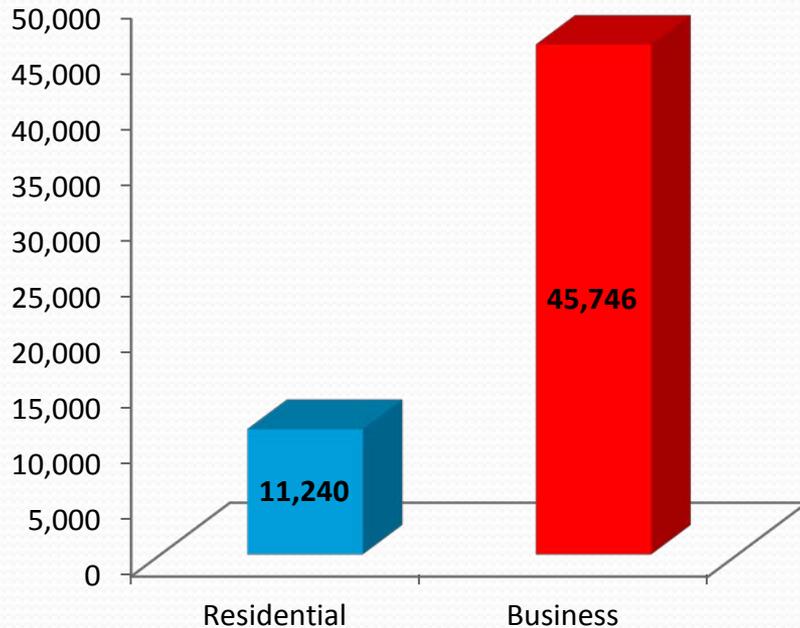
■ SBC
 ■ RGGI
 ■ FCM
 ■ Gas LDAC

■ Income Eligible
 ■ Residential
 ■ Business

2013 Annual Savings

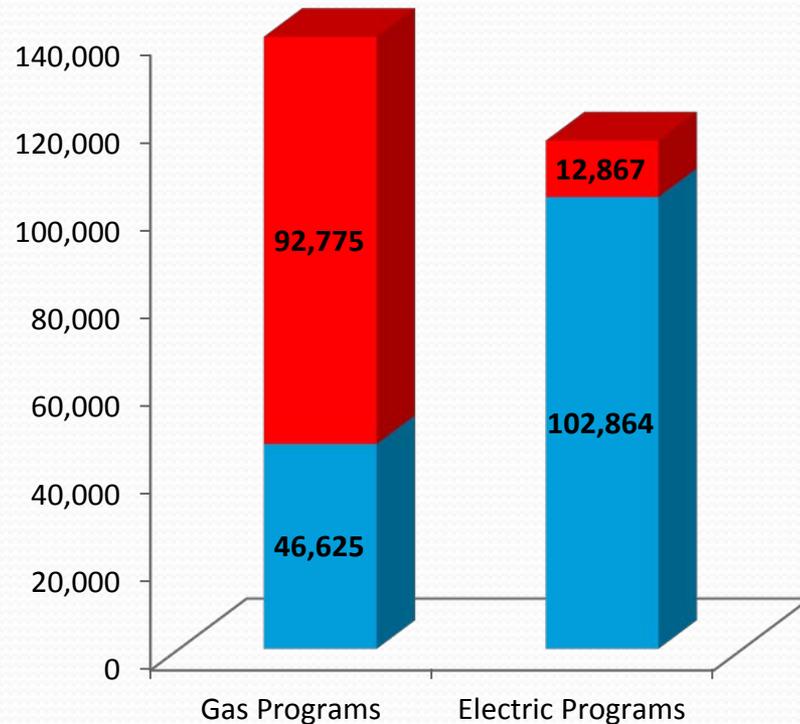
Electric – MWH

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*



■ Residential ■ Business

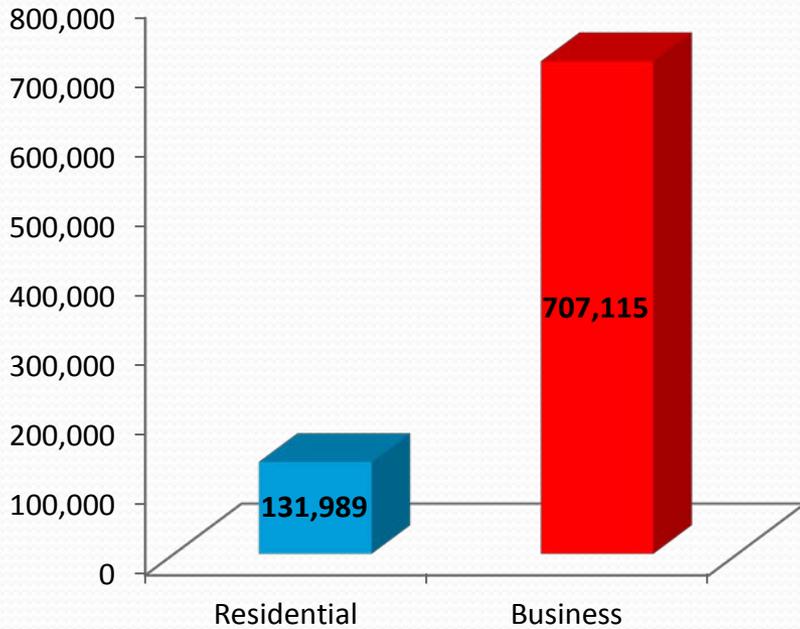


*Based on NH OEP's July 1, 2013 average electricity price of \$0.1399/kWh and average natural gas price (Tier 2) of \$0.96/therm and oil, liquid propane, kerosene and wood.

2013 Lifetime Savings

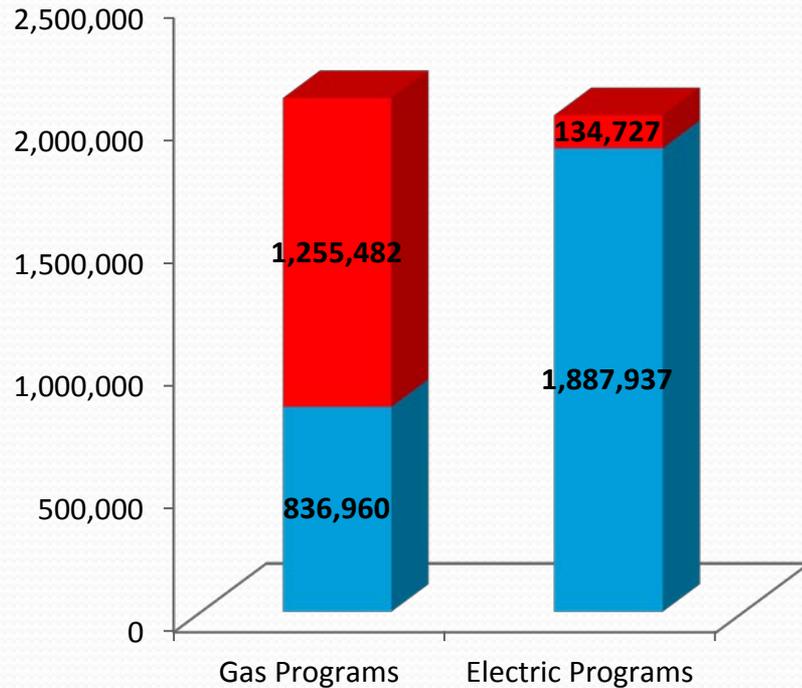
Electric – MWH

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*



■ Residential ■ Business



*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.

Jobs Supported

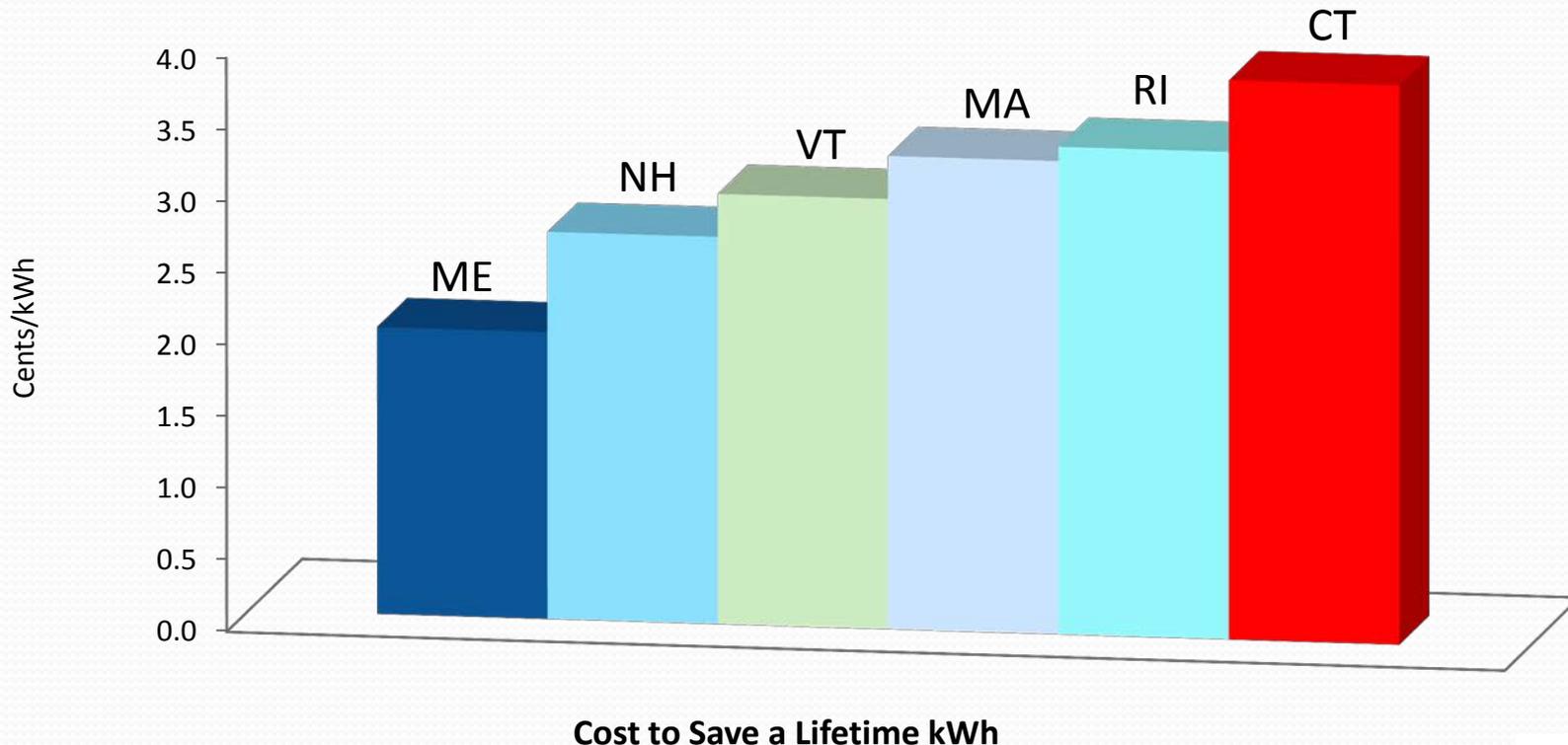
338 jobs (or approximately 703,000 work hours) were supported by the 2013 CORE energy efficiency program expenditures

	Utility Expenditures ('000)	Customer Expenditures ('000)	Total Expenditures ('000)	Jobs per \$1Million Spent *	Number of Jobs Supported
Residential	\$17,300	\$13,800	\$31,100	7.5	233
Business	<u>\$15,000</u>	<u>\$16,800</u>	<u>\$31,800</u>	3.3	<u>105</u>
Total	\$32,300	\$30,600	\$62,900		338

*Source: An Evaluation of the NH BetterBuilding Program Report, 2013.

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.



Cost to Save a Lifetime kWh

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.

CORE Programs - A Look Ahead

Program Focus Areas

- ❖ Financing Options
- ❖ On-line Customer Engagement Tools
- ❖ Expanded Education and Community Involvement

Regulatory and Planning

- ❖ Participation in the Multi-Year Evaluation Planning Process
- ❖ Participation in the NH EERS Stakeholder Process
- ❖ Creation of the 2015/2016 CORE Programs Plan



ANY QUESTIONS

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