



Energy Efficiency Program

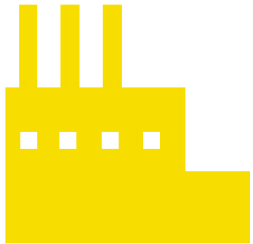
EESE Board Presentation - October 8, 2010

Julie Karaba, Program Manager, RMANH

Giving Power Back – *Who We Are*



Where energy is used in NH



INDUSTRY

25%

NH = 9%

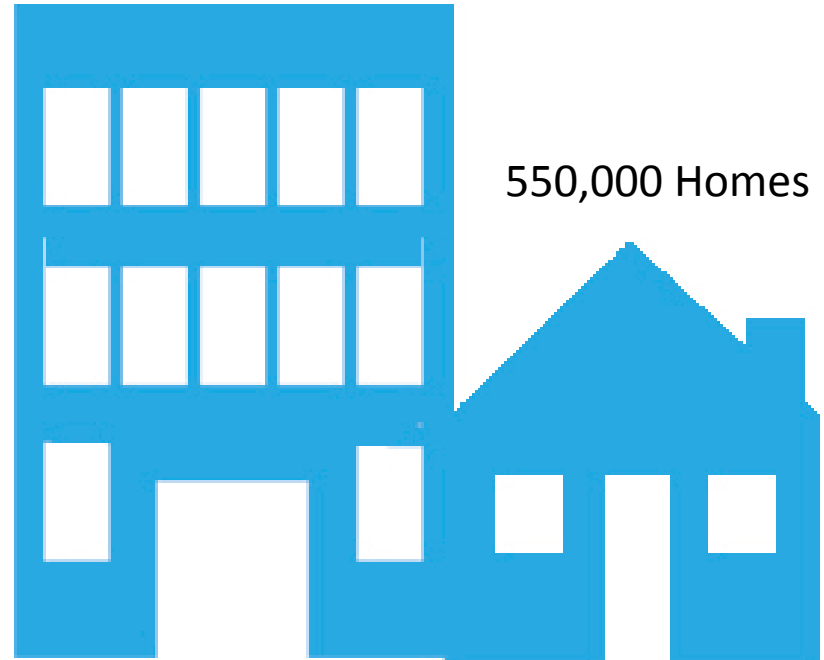


TRANSPORTATION

27%

NH = 32%

25,000 Buildings



550,000 Homes

53% Commercial

47% Residential

ALL BUILDINGS

48%

NH = 59%

NH heats with:

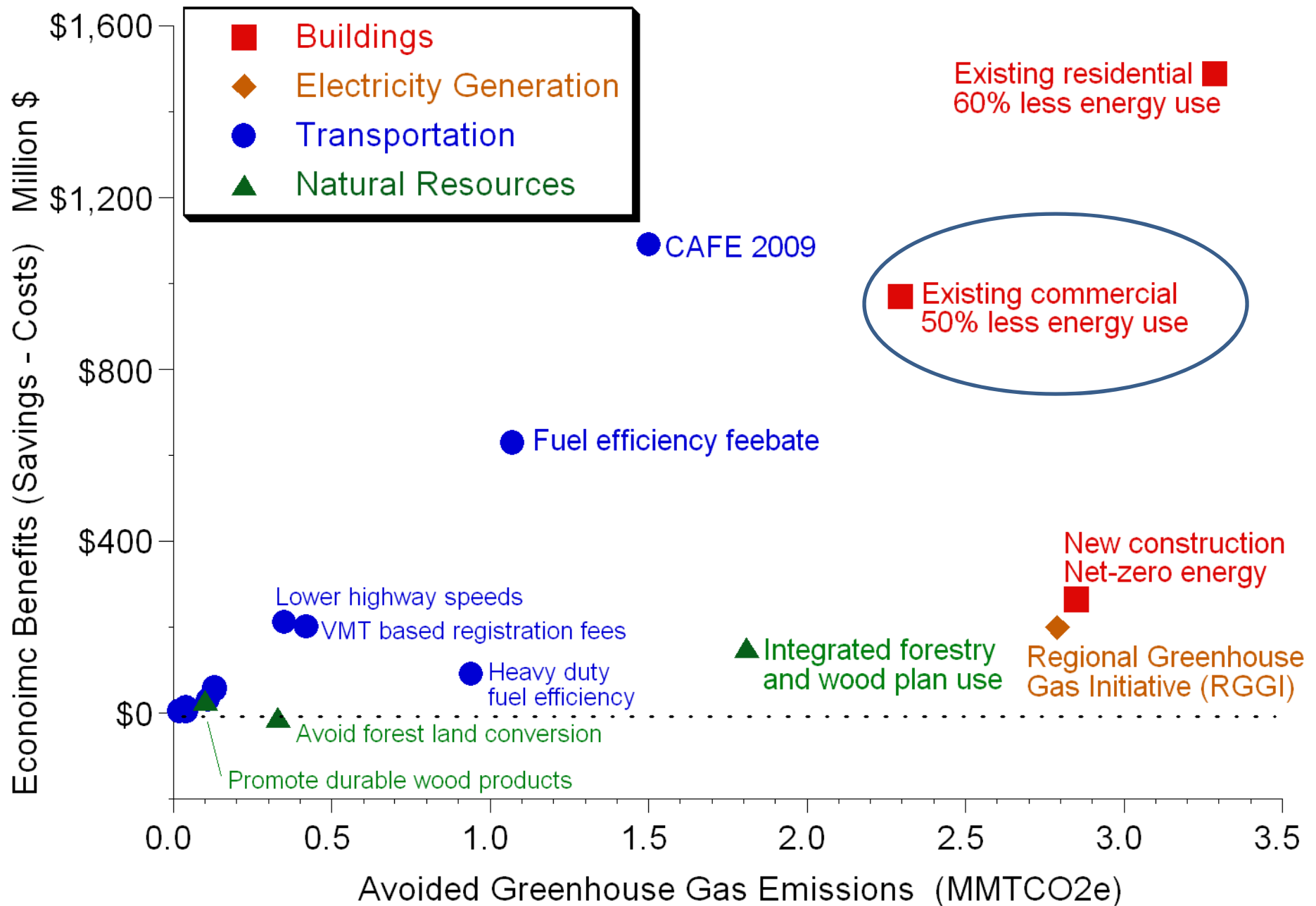
66% Oil

21% Natural Gas

or

87% Fossil Fuel

New Hampshire Economic Benefits vs Avoided CO2e Emissions in 2025

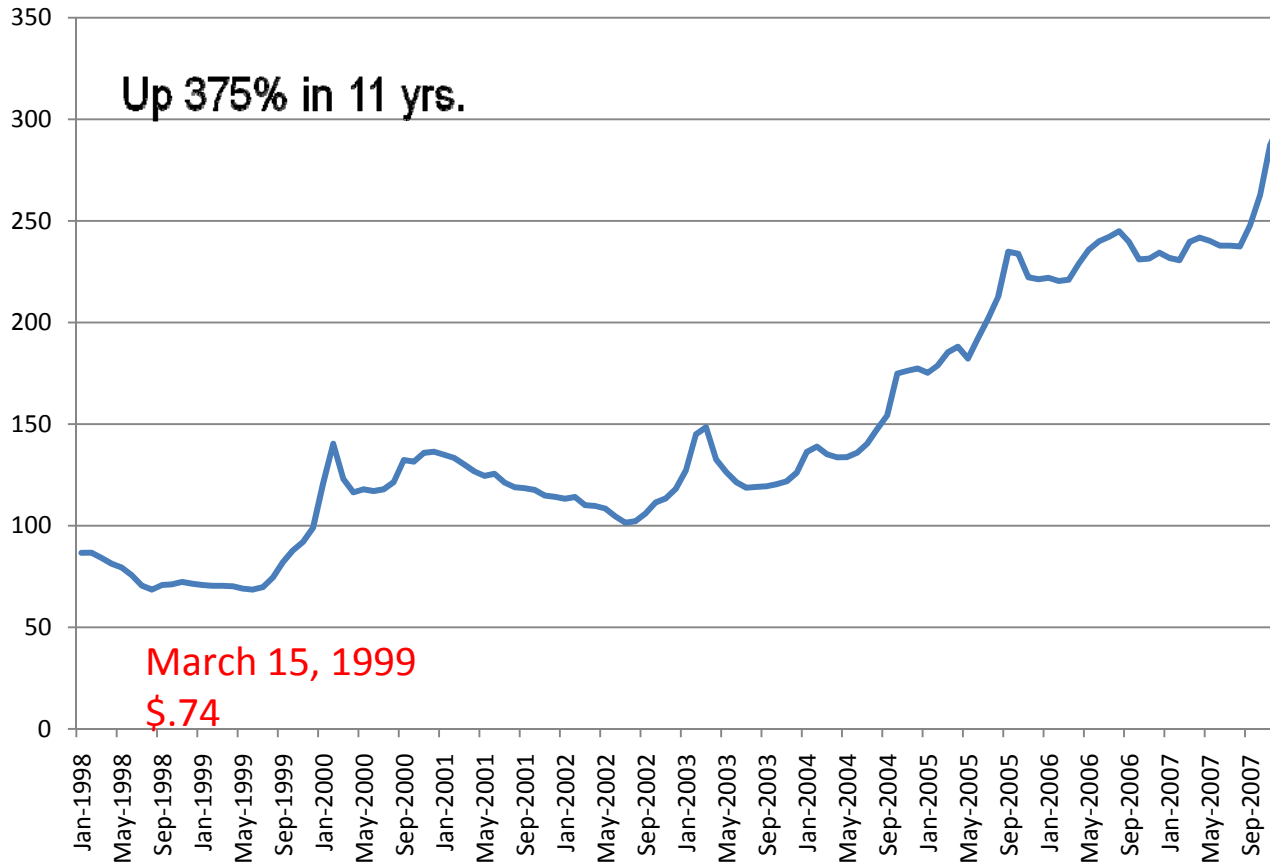


The Volatile Price of Oil



July, 2008
 \$4.74 – increase
 640 % in 9 yrs

Retail Cost of #2 Fuel Oil in Cents/Gallon, NH Average 1998-2010



June 15, 2009
 \$2.15
 Down 55% from
 July '08

Giving Power Back – *What We Do*

- Educate the retail community
- Perform audits
- Implement projects
- Provide tools for understanding energy use
- Act as a resource for energy information in NH



Giving Power Back – *Three Steps*

Phase 1

25 businesses from the following locations:

Concord
Manchester
Claremont
Guild
Walpole
Keene
Amherst
Exeter
Belmont
Portsmouth
Windham
Barrington
Nashua
Raymond
Durham

Phase 2

13 businesses moved to this phase, where they paid for 25% of the audit cost.

The audit includes blower door testing and infra-red pictures.

Recommendations are made for energy efficiency measures; notably shell upgrades.

Phase 3

We will fund approximately 6 projects.

\$500K will be given in direct rebates and will leverage approximately \$1.2 MM.

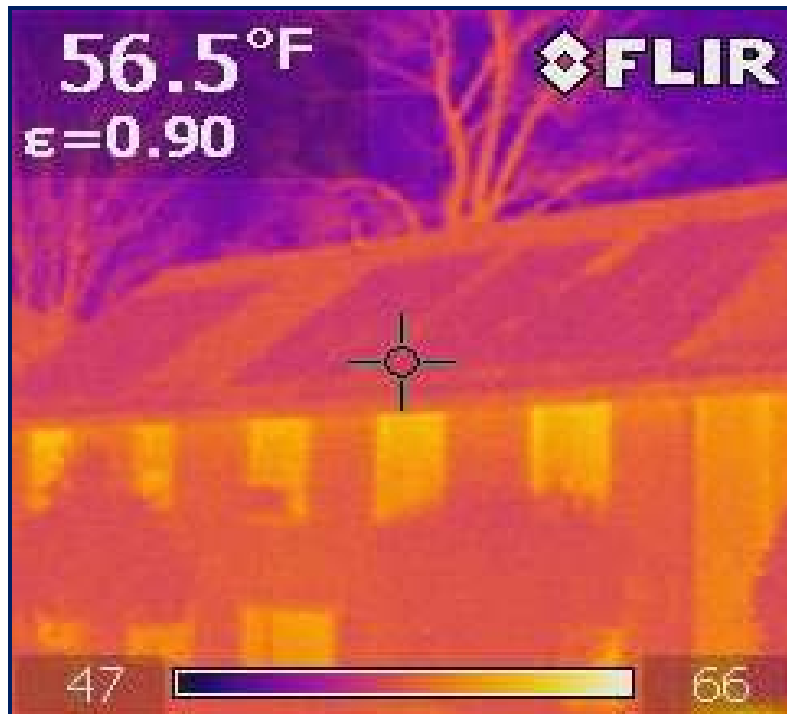
We believe GHG reductions of 30% -50% are possible.

Common Opportunities - Lighting

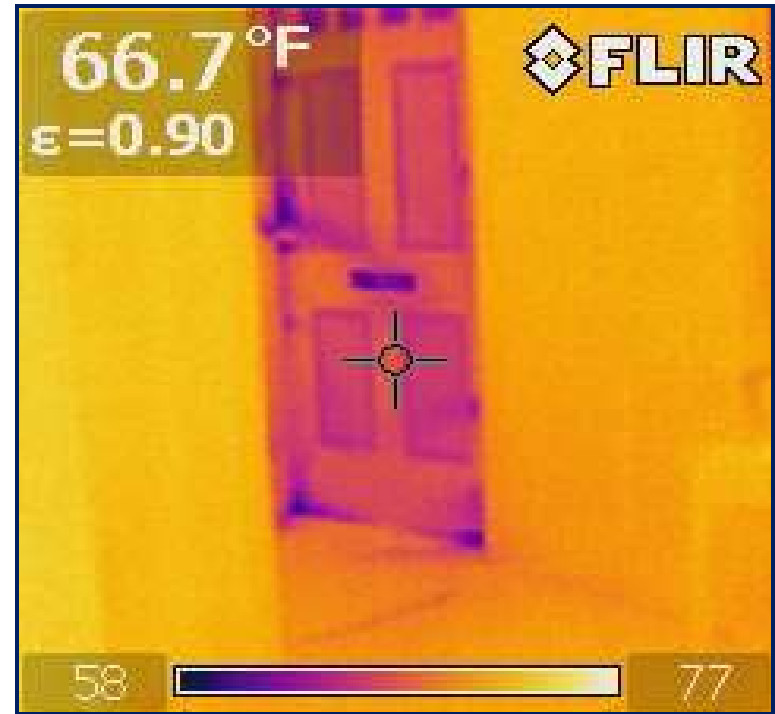


The Jordan Institute
Retail Merchants Association of NH
Energy Efficiency program 2009-2010

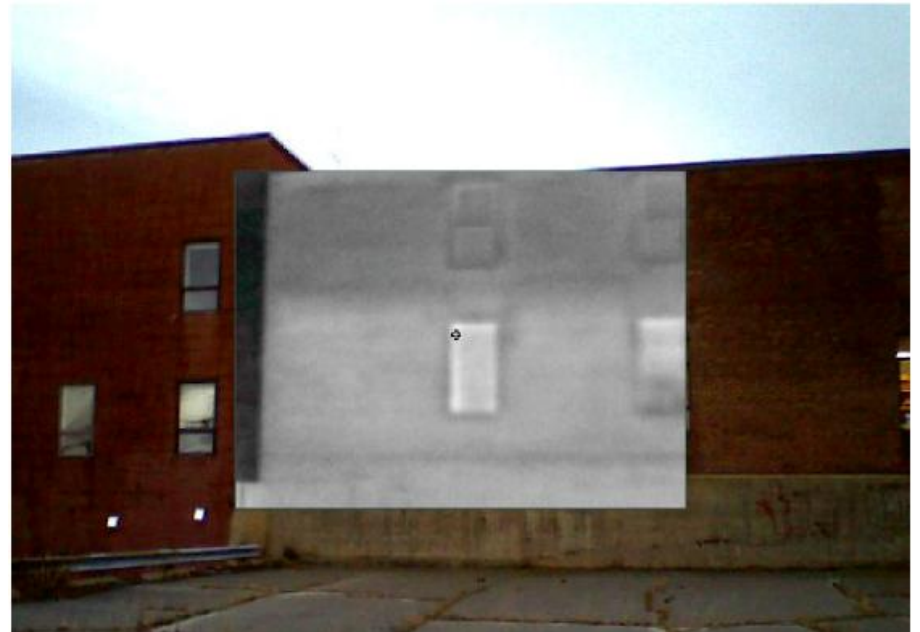
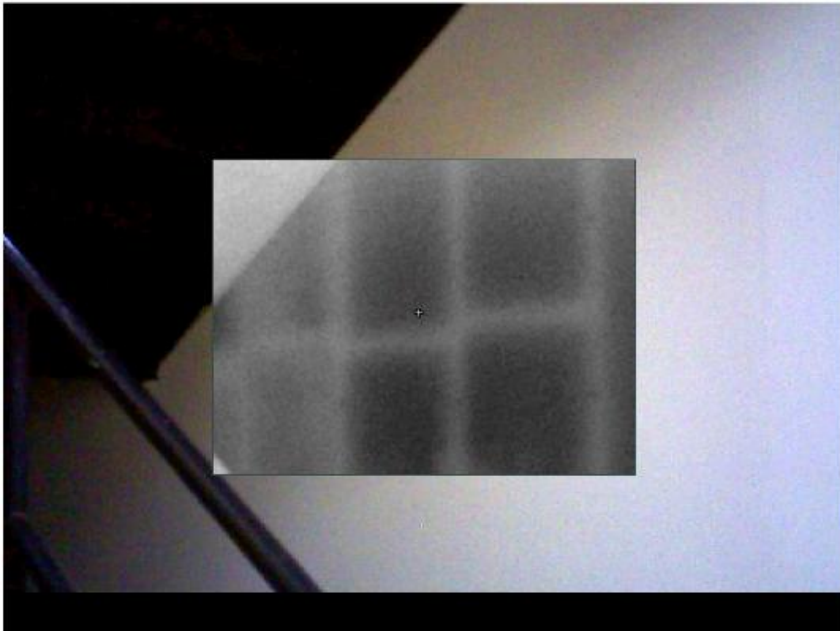
Common Opportunities – Building Envelope



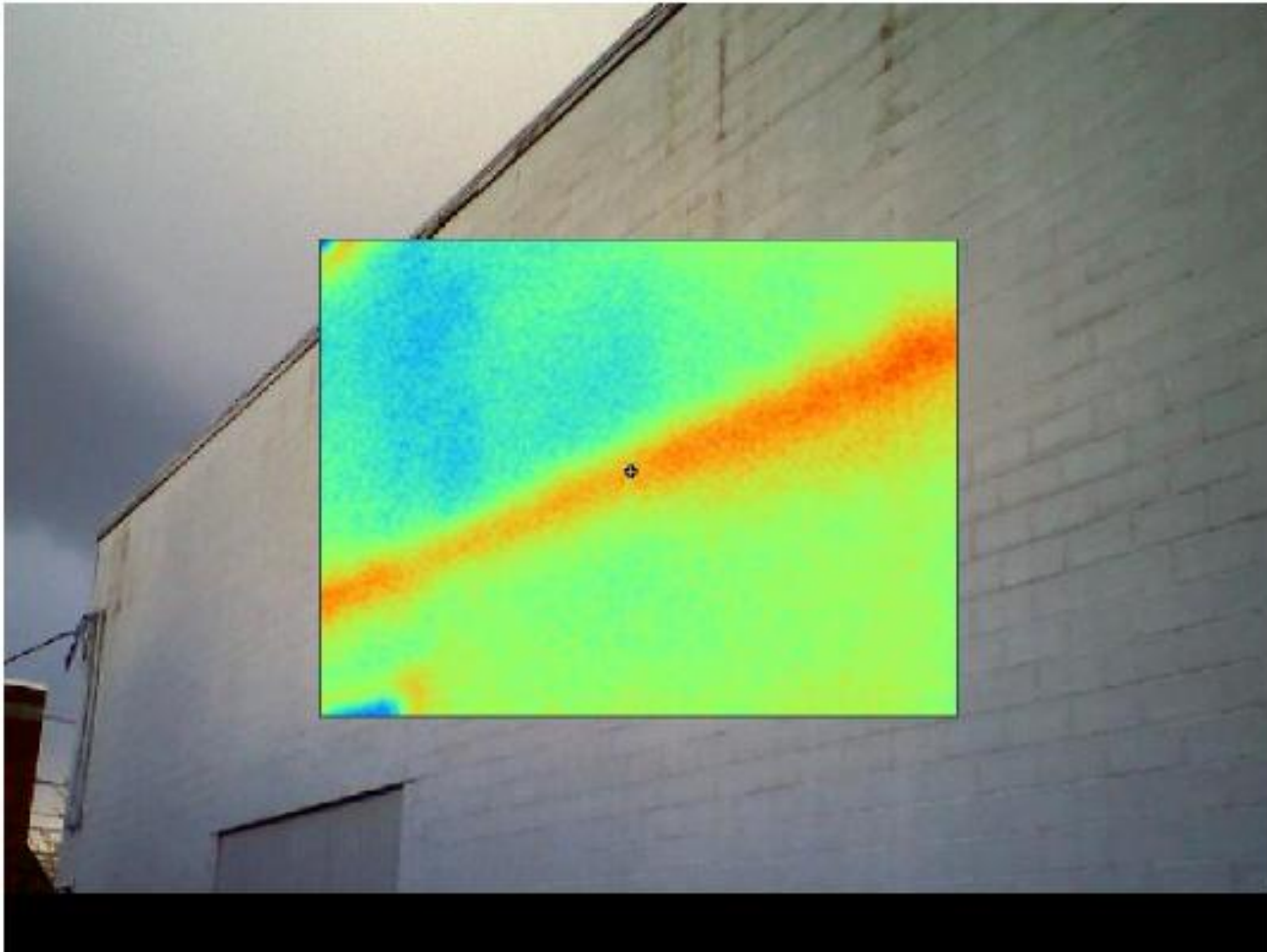
Common Opportunities – Building Envelope



Common Opportunities – Building Envelope

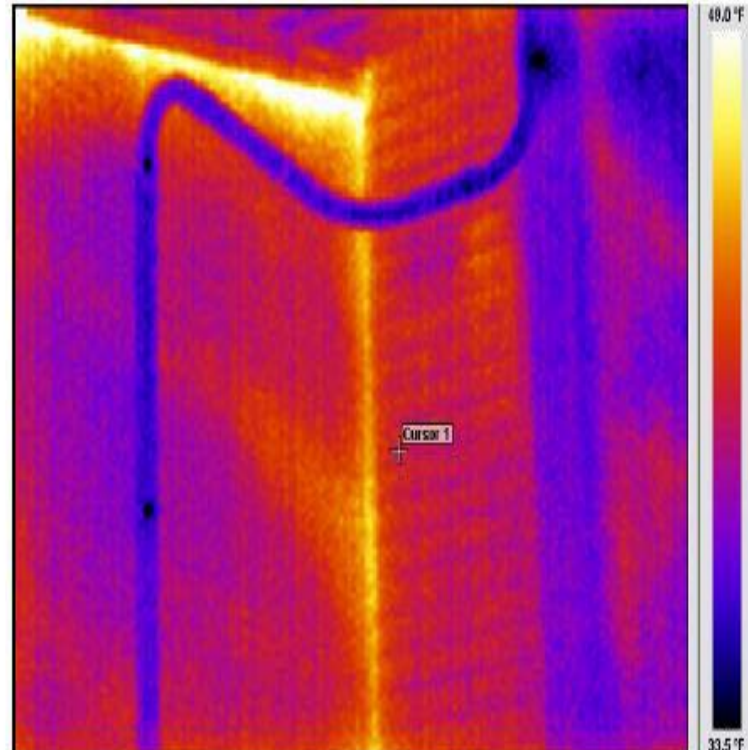


Common Opportunities – Building Envelope



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Common Opportunities – Building Envelope



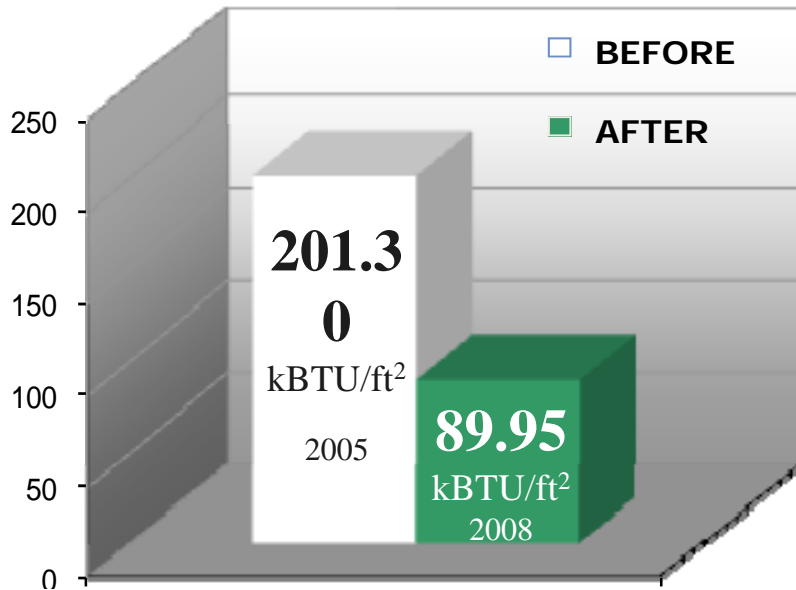
Common Opportunities - Equipment



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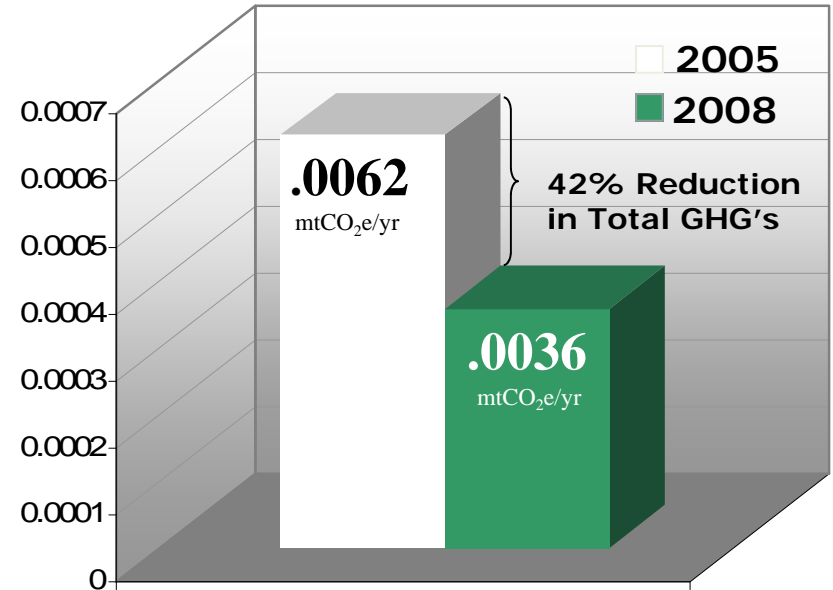
Merrimack Valley High School

Energy Use Intensity



**55 % REDUCTION
IN ENERGY USE**

Total Green House Gas
Emissions: 2005 vs. 2008



**42% Reduction in
GHG's/sq. ft.**

Total Green House Gas Emissions
Total Metric Tons GHG per Square Foot per Year

Giving Power Back – *Why Now?*

- This is a great time to do work, as labor and material costs are down by about 20%.
- Though energy prices are low today, it is only a matter of time before they go back up.
- Ancillary benefits: marketing, comfort, productivity, company pride, increased sales.

Giving Power Back – *What's Next?*

- We have proposed to enroll 100 businesses in the EEP, including outreach to other trade organizations.
- We have proposed to move 40-50 of these businesses to the audit stage, and to implement an additional 20-25 projects in 2010-2011.
- Experience from this year indicates that 30-50 percent reductions in energy use are possible, with proportional reductions in GHGs.

Giving Power Back - *One Building at a Time*



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