

Third Regional Energy Efficiency Initiative Meeting

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ISO New England

Regional Energy Efficiency Initiative

- **Goals:**
 - Listening
 - Better understand the long-run impact of state-sponsored energy efficiency programs
 - Develop the most complete data set possible to serve as a resource for future analysis

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- **Goals (cont.):**
 - Inform all stakeholders
 - Aggregate information on a regional basis
 - Provide greater transparency for stakeholders

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- **Data to date**
 - States: myriad energy efficiency programs

Program Description

Efficiency Maine is the brand name for seven separate programs that cover all electric end uses.

1. Residential Efficient products: incentives for lighting appliances.
2. Maine Home Performance improves efficiency of
3. Low income appliance replacement program
4. Business Efficient products: incentives for lighting equipment.
5. Commercial new construction: incentives and education
6. Educational programs (schools to scholars)
7. Solar and wind equipment rebates/incentives

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Saving Energy For Maine

DOER
Massachusetts Department of Energy Resources

Creating A Greener Energy Future For the Commonwealth

MA Initiatives

- **Executive**
 - LBE
 - 35% reduction by 2020
 - RGGI
 - Funding efficiency expansion
 - Renewables
 - PV: 250 MW by 2017
 - Wind: 2000 by MW 2020
 - ZNEB
 - Performance based outcomes
 - 5 homes
 - Pilot retrofit super insulation
 - CERT/Energy Leaders
 - competitions
 - MEPA
- **Legislation**
 - Green Jobs
 - Clean Energy Center
 - Energy Efficiency Innovation Institute
 - Ocean Management
 - Clean Energy Biofuel
 - Green Communities
 - Building Codes
 - Inspector Training
 - Least cost procurement
 - Community challenge grants
 - Renewables/net metering
 - Global Warming Solutions
 - 80% GHG reduction by 2050

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- Data to date
 - States: myriad energy efficiency funding avenues

Overview of 2009 CORE PROGRAMS

- Energy Star Homes
 - 2009 Budget
 - Lifetime Savings
- Home Energy Solutions Program
 - 2009 Budget
 - Lifetime Savings
- Energy Star Lighting Program
 - 2009 Budget
 - Lifetime Savings
- Energy Star Appliance Program
 - 2009 Budget
 - Lifetime Savings

National Grid 2009 Electric Energy Efficiency Program Budget (\$000)

	Program Planning & Administration			Rebates and Other Customer Incentives	Evaluation & Market Research	Grand Total
	External	Internal	Marketing			
Non-Low Income Residential						
ENERGY STAR® Homes	\$49.0	\$31.7	\$21.0	\$758.9	\$19.2	\$879.8
ENERGY STAR® Central Air Conditioning	\$15.0	\$22.7	\$38.7	\$352.7	\$9.7	\$438.7
ENERGY STAR® Heating	\$0.0	\$6.9	\$1.5	\$201.5	\$0.0	\$209.9
EnergyWise	\$225.0	\$97.3	\$100.0	\$2,627.8	\$94.9	\$3,145.0
ENERGY STAR® Lighting	\$100.0	\$32.4	\$177.8	\$669.9	\$22.0	\$1,002.0
ENERGY STAR® Appliances	\$18.4	\$34.0	\$212.0	\$1,208.3	\$53.9	\$1,526.5
EERMC - Residential	\$125.1	\$0.0	\$0.0	\$0.0	\$0.0	\$125.1
Energy Efficiency Educational Programs	\$50.0	\$0.9	\$50.0	\$0.0	\$0.0	\$100.9
Shareholder Incentive	\$0.0	\$339.1	\$0.0	\$0.0	\$0.0	\$339.1
Subtotal - Non-Low Income Residential	\$582.5	\$564.8	\$600.9	\$5,819.0	\$199.7	\$7,767.0
Low Income Residential						
Single Family - Low Income Services	\$35.7	\$78.9	\$60.0	\$2,453.7	\$67.3	\$2,695.6
Shareholder Incentive	\$0.0	\$100.2	\$0.0	\$0.0	\$0.0	\$100.2
Subtotal - Low Income Residential	\$35.7	\$179.1	\$60.0	\$2,453.7	\$67.3	\$2,795.7
Commercial & Industrial						
Design 2000 ^{plus}	\$340.5	\$502.4	\$21.7	\$6,575.6	\$122.2	\$7,562.4
Energy Initiative ¹	\$350.8	\$535.5	\$13.5	\$5,996.7	\$168.1	\$7,064.5
Small and Medium Business Program	\$240.4	\$83.4	\$50.0	\$5,878.2	\$142.9	\$6,395.0
EERMC - C&I	\$189.9	\$0.0	\$0.0	\$0.0	\$0.0	\$189.9
Shareholder Incentive	\$0.0	\$596.8	\$0.0	\$0.0	\$0.0	\$596.8
Subtotal - Commercial & Industrial	\$1,121.6	\$1,718.1	\$85.1	\$18,450.5	\$433.2	\$21,808.5
Grand Total	\$1,739.8	\$2,461.9	\$746.0	\$26,723.3	\$700.2	\$32,371.2

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- **State Potential Studies – Current status:**
 - **VT** - Complete in January 2007
 - **RI** - Phase 1 Complete
 - **NH** - Complete in January 2009
 - **CT** - Draft completed, but not yet released
 - **MA** - An "assessment" of all available cost effective efficiency is complete but not yet released (not a technical potential study). One or more studies with primary data collection to be done over the next year.
 - **ME** - is reviewing proposals for a potential study

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- Regional Potential Studies – Possible?

Energy Efficiency Potential Study

Technical Report

EPRI
Assessment of Achievable Potential from Energy Efficiency and Demand Response Programs in the U.S.
(2010-2030)

Executive Summary

EPRI
Assessment of Achievable Potential for Energy Efficiency and Demand Response in the U.S. (2010-2030)
Executive Summary

Released
1/14/09

Publicly
available at
EPRI.com

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EPRI | ELECTRIC POWER RESEARCH INSTITUTE

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- **ISO's review of the region's (non-FCM) energy efficiency programs highlights challenges:**
 - Programs vary from state to state making regional assumptions difficult
 - Funding – key but variable (RGGI future? Stimulus \$)
 - Specific data re level of savings not always evident (ie annual energy and seasonal peak savings; weekdays, 6-7pm in the winter, 2-5 pm in the summer)

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Today's Agenda:

- ISO-NE's load forecasting methodology, Dave Ehrlich
 - Focus on energy efficiency
- ISO-NE's system planning activities, Richard Kowalski
 - Energy efficiency and ISO-NE's tariff
- Demand resources, Eric Winkler
 - Energy efficiency as a supply resource

Regional Energy Efficiency Initiative

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