

Regional Energy Efficiency Database (REED) Preview

Regional EM&V Forum Annual Public Meeting December 12, 2012

Regional Energy Efficiency Database (REED) Overview



Project Description: Database builds on Forum <u>Common Statewide EE Reporting Guidelines</u> adopted by Steering Committee in Dec 2010

Final product: State data collection tool, regional public EE database, and interactive reporting of data. Modules include:

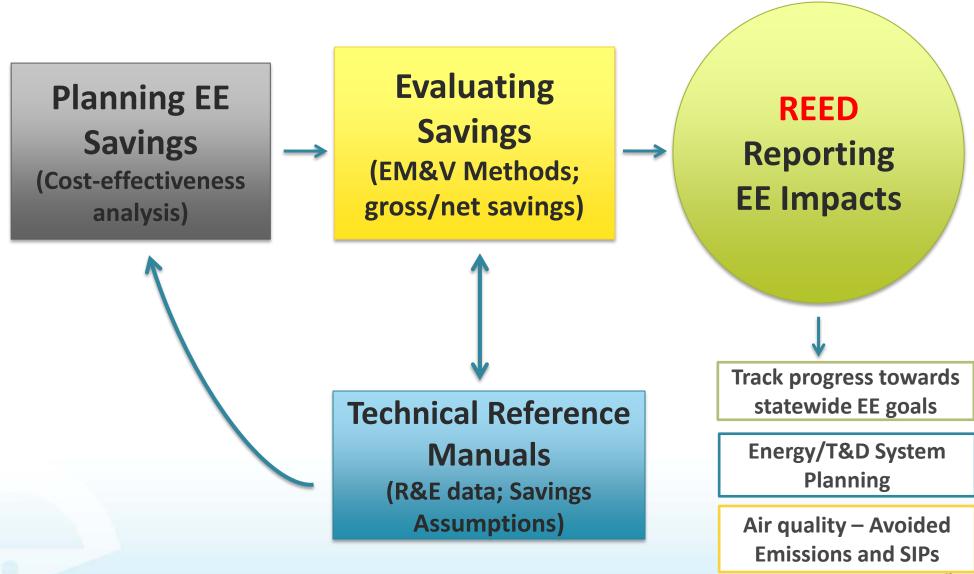
- ✓ Background EE Info
- ✓ Annual incremental energy savings
- ✓ Lifetime energy savings
- ✓ Peak demand savings (summer/winter)
- ✓ Expenditures, cost of saved energy
- ✓ Avoided emissions
- √ Job impacts

Project subcommittee members: state entities (SEOs, PUCs, PAs, air quality reps), ISO/RTO staff

EM&V FORUM

Addresses Key Areas of EM&V Cycle





REED Overview: Goal, Audiences and Uses



REED Goal: Develop transparency and consistency in reporting of EE impacts across the region in order to increase the credibility and understanding of the EE resource to support state and regional energy, economic and environmental policies.

Audiences and Uses:

- 1. State PUC/SEO and PA benchmarking EE programs (program/policy design, effectiveness)
- 2. State DEP/regional EPA air quality reporting/planning
- 3. ISO/RTO system/transmission planning
- 4. Stakeholder ability to compare, aggregate multi-state or sub-region EE impacts

REED Overview: Subcommittee Key Objectives and Criteria



- 1. REED EE data should be consistent with data collected by ISOs/RTOs to support long-term EE (in the interest of consistent EE data reporting to meet multiple policies).
- 2. Avoid duplication of EE reporting, and minimize reporting burden of states and/or program administrators in populating REED.
- 3. Provide flexibility in building REED to accommodate for potential future changes, yet proceed with REED implementation as soon as possible.

REED Outputs/Reports



Reporting	Titles with	descriptions	of filter of	ptions (all b	by state or su	ıb-region)
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Cost of Saved Energy (Lifetime Cost/kWh or Cost/therm)

Total Peak Demand Savings (by Total, by Sector or by program, and either net or gross)

Total Annual Electric Savings (by Total, by Sector or by program, and either net or gross)

Total Lifetime Electric Savings (by Total, by Sector or by program, and either net or gross)

Total Annual Gas Savings (by Total, by Sector or by program, and either net or gross)

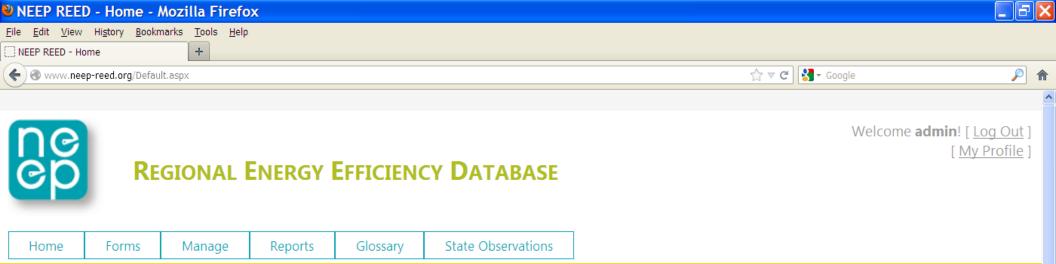
Total Lifetime Gas Savings (By Total, by Sector or by program, and either net or gross)

Total Annual Expenditures and as % of Total Costs (By Category, electric and/or gas)

Savings as a % of Utility kWh Sales (user to select electric and/or gas)

Total Avoided Emissions (NOx, SO2, CO2)

Total Jobs Created (Direct and Indirect) - from electric and/or gas programs



Welcome to the Regional Energy Efficiency Database (REED).

If you are accessing the website to enter state energy efficiency data, please log in using the link in the upper right corner, and you will be taken to the FORMS page.

In 2010, the Regional Evaluation Measurement & Verification (EM&V) Forum developed Common Statewide Energy Efficiency Reporting Guidelines with state-level reporting templates and several process recommendations that provide for consistent reporting of electric and natural gas energy efficiency program energy and demand savings and associated costs, avoided emissions, and job impacts across the region.

REED data is provided by designated entities from the following jurisdictions: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, Maryland, New York, Delaware and the District of Columbia. REED is guided by a Steering Committee comprised of energy regulatory Commissioners, air quality representatives, and State Energy Office representatives from across the region.

If you have any questions about REED, please contact REED Manager Cecily McChalicher at cmcchalicher@neep.org.

For more information about NEEP, please view the NEEP website.













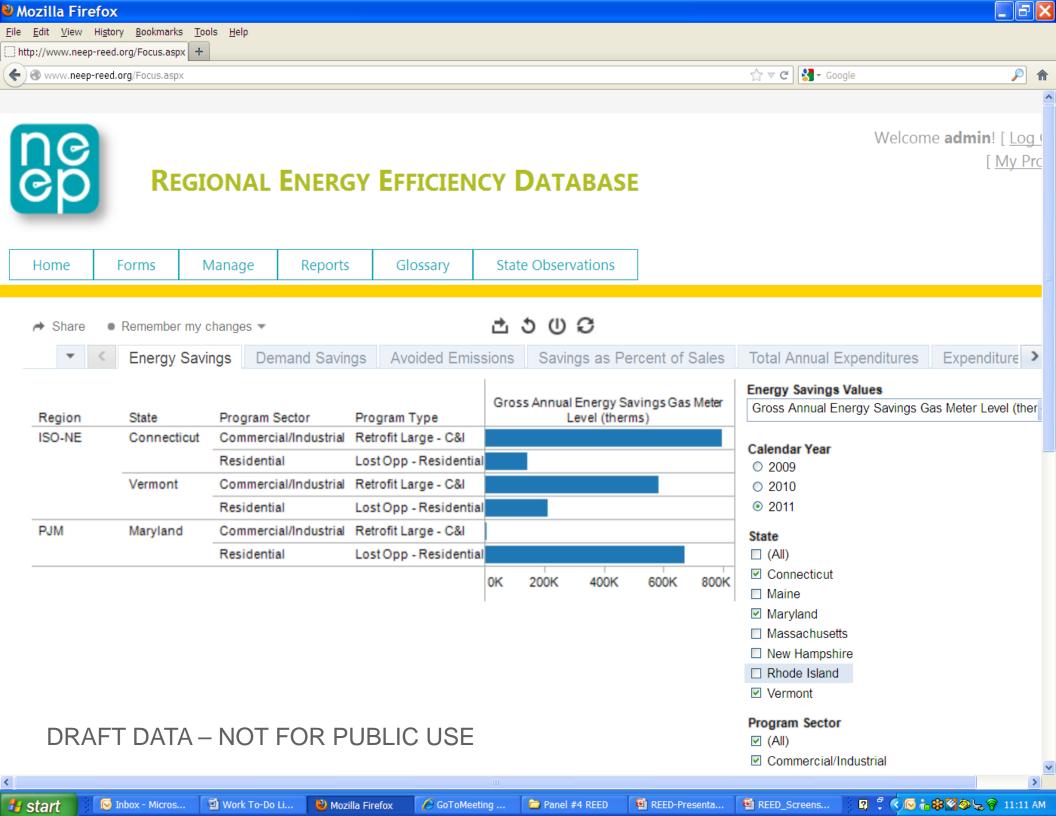


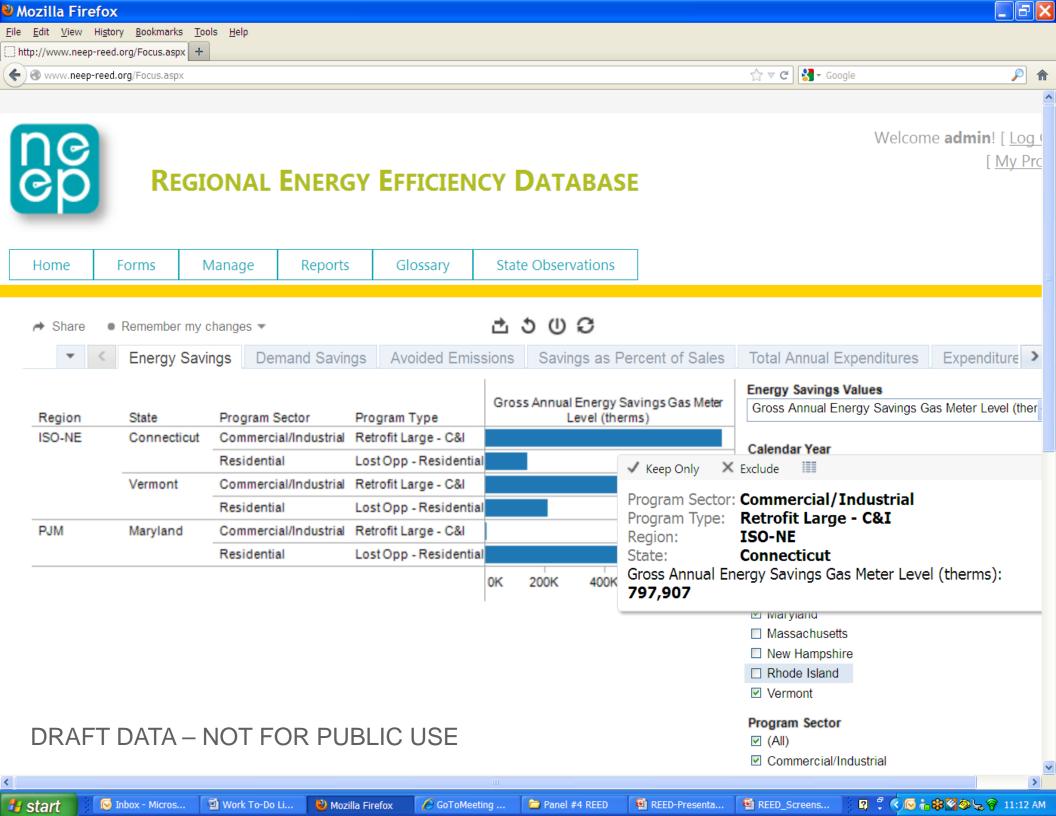


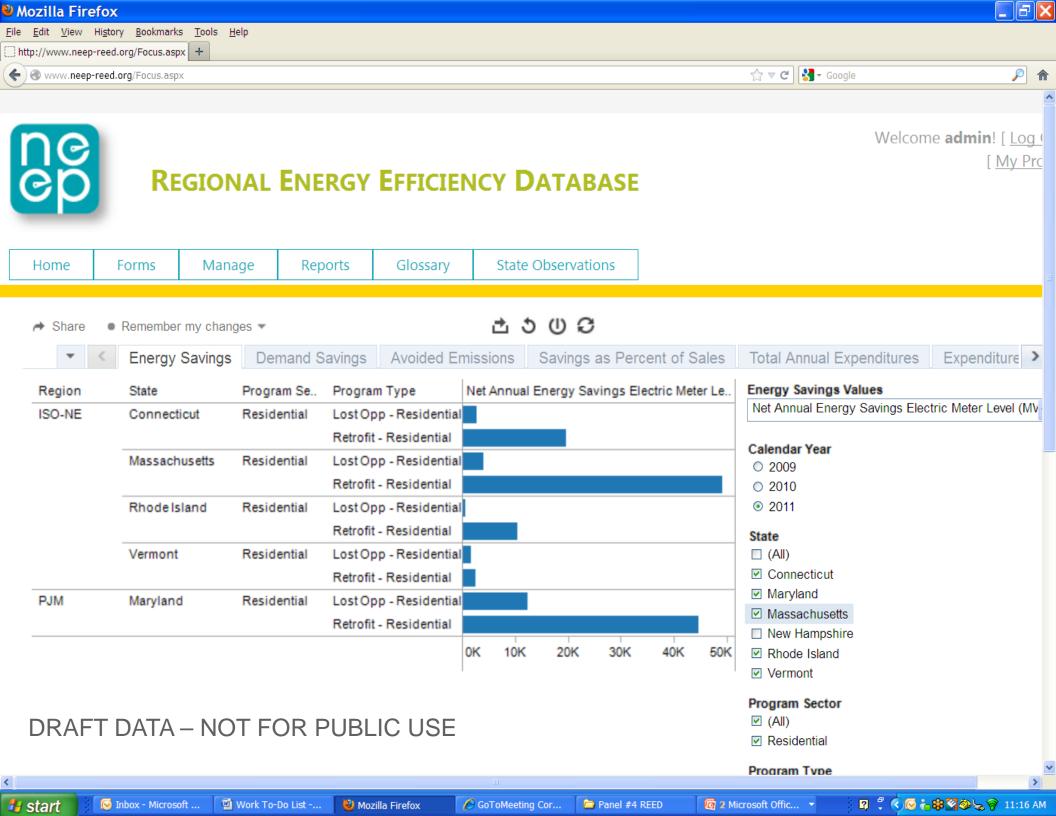


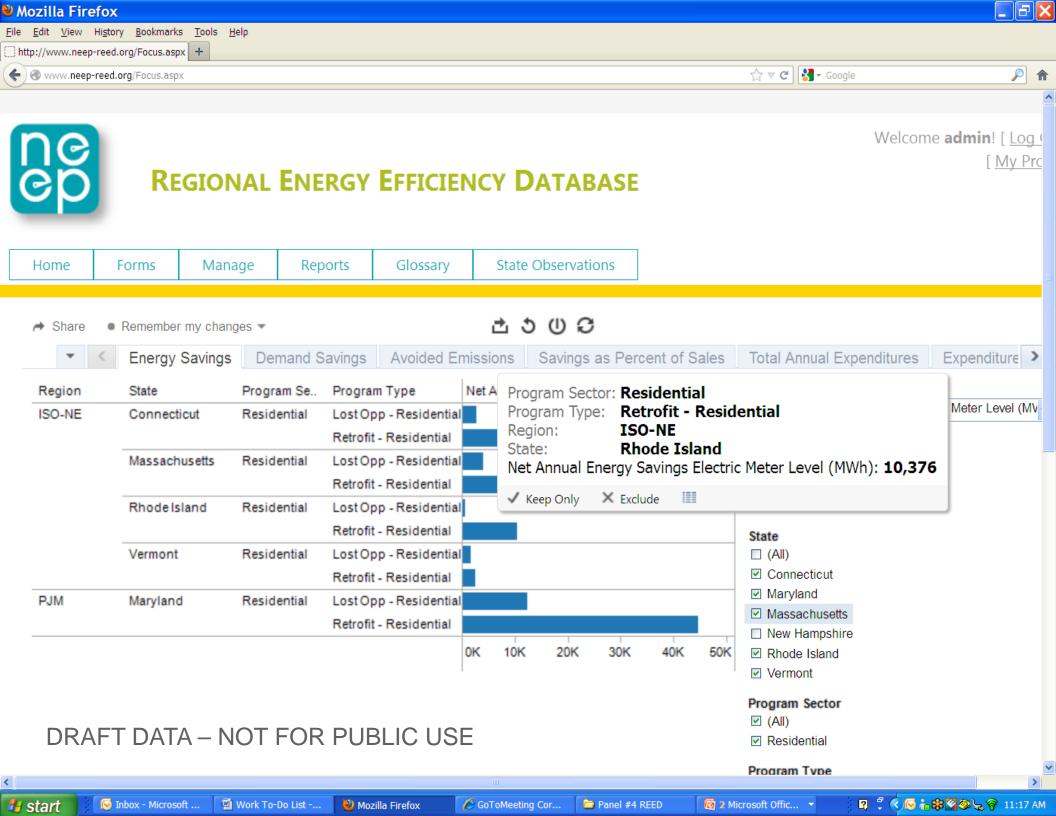














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Summary

Underlying

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Program Sector	Program Type	Region	State	Energy Savings Values	SUM(Measure Choice - Energy Savings)			
Residential	Retrofit - Residential	ISO-NE	Vermont	Net Annual Energy Savings Electric Meter Level (MWh)	2,628.778100000			
Residential	Retrofit - Residential	ISO-NE	Massachusetts	Net Annual Energy Savings Electric Meter Level (MWh)	49,019.496046153			
Residential	Retrofit - Residential	ISO-NE	Connecticut	Net Annual Energy Savings Electric Meter Level (MWh)	19,751.209			
Residential	Lost Opp - Residential	ISO-NE	Connecticut	Net Annual Energy Savings Electric Meter Level (MWh)	2,843.515			
Residential	Lost Opp - Residential	ISO-NE	Massachusetts	Net Annual Energy Savings Electric Meter Level (MWh)	4,080.676414847			
Residential	Retrofit - Residential	PJM	Maryland	Net Annual Energy Savings Electric Meter Level (MWh)	44,716.9576			
Residential	Retrofit - Residential	ISO-NE	Rhode Island	Net Annual Energy Savings Electric Meter Level (MWh)	10,376.05169965			
Residential	Lost Opp - Residential	ISO-NE	Vermont	Net Annual Energy Savings Electric Meter Level (MWh)	1,772.9824			
Residential	Lost Opp - Residential	ISO-NE	Rhode Island	Net Annual Energy Savings Electric Meter Level (MWh)	612.97235031			
Residential	Lost Opp - Residential	PJM	Maryland	Net Annual Energy Savings Electric Meter Level (MWh)	12,348.841			

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				Net		DRAFT DATA – NOT FOR PUBLIC USE				IC USE
Net Annual Energy Savings Electric Meter Level (MWh)	Net Annual Energy Savings Gas Meter Level (therms)	Net Annual Energy Savings Other (MMBTU)	Net Lifetime Energy Savings Electric Meter Level (MWh)	Lifetime Energy Savings Gas Meter Level (therms)	Net Lifetime Energy Savings Other (MMBTU)	Program Sector	Program Type	Region	Reporting Period	State
Null	200,357	0	Null	3,497,623	0	Residential	Retrofit - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
Null	35,947	0	Null	898,681	0	Residential	Lost Opp - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
Null	14,336	0	Null	286,720	0	Residential	Lost Opp - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
Null	248,919	0	Null	4,280,444	0	Residential	Retrofit - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
Null	24,557	0	Null	613,952	0	Residential	Lost Opp - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
Null	176,155	0	Null	3,193,688	0	Residential	Retrofit - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
Null	13,476	0	Null	269,517	0	Residential	Lost Opp - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
Null	48,890	0	Null	1,222,256	0	Residential	Lost Opp - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
Null	7,340	0	Null	146,801	0	Residential	Lost Opp - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
2,547.385	Null	Null	42,636.843	Null	Null	Residential	Lost Opp - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
16,210.675	Null	Null	158,853.536	Null	Null	Residential	Retrofit - Residential	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
296.13	Null	Null	3,451.573	Null	Null	Residential	Lost Opp	ISO-NE	12/31/2011 12:00:00 AM	Connecticut
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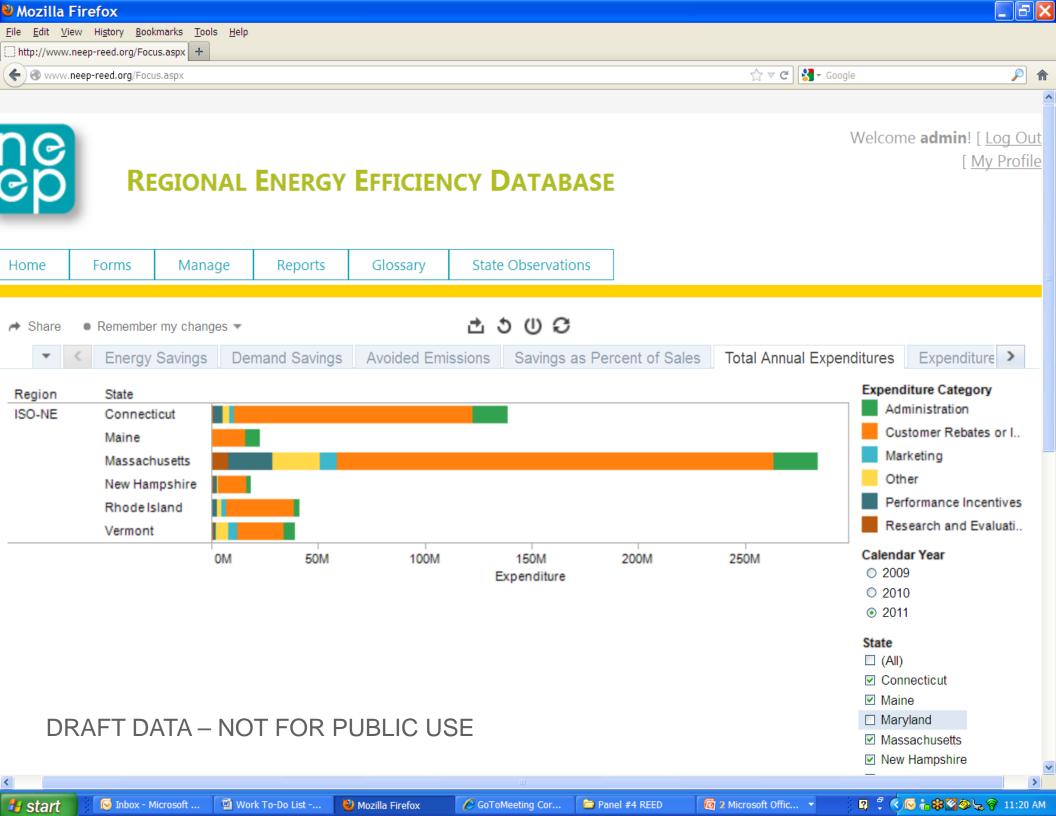


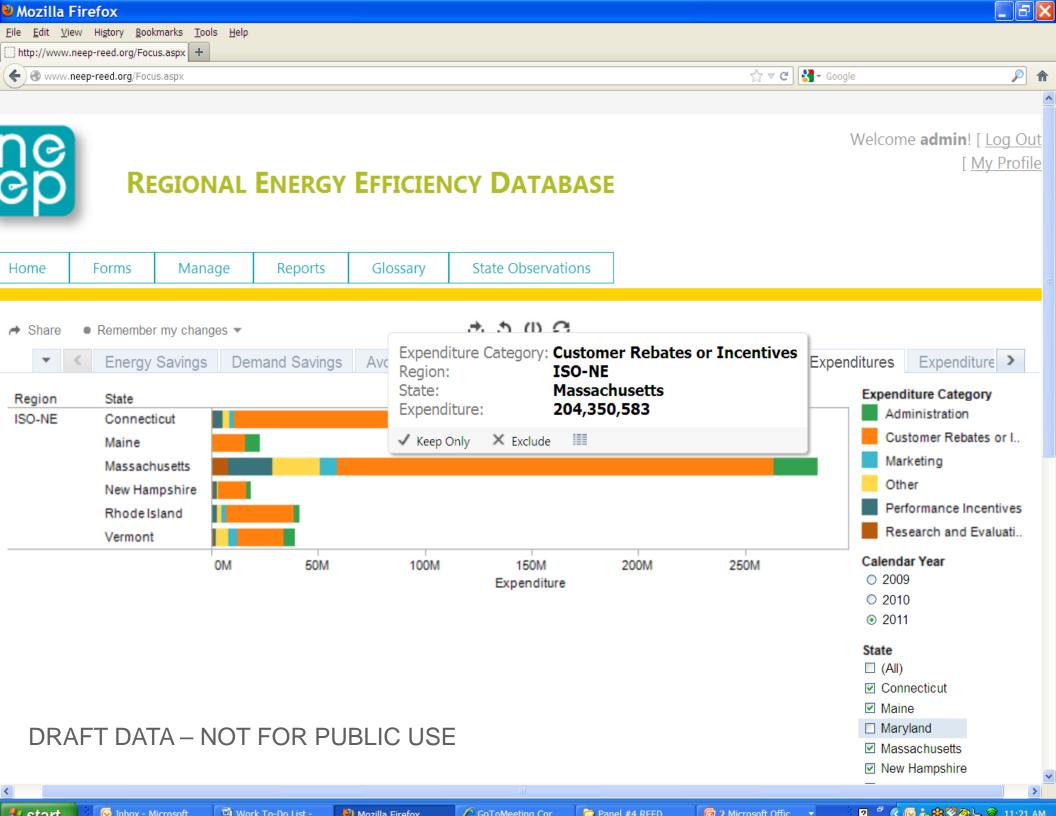


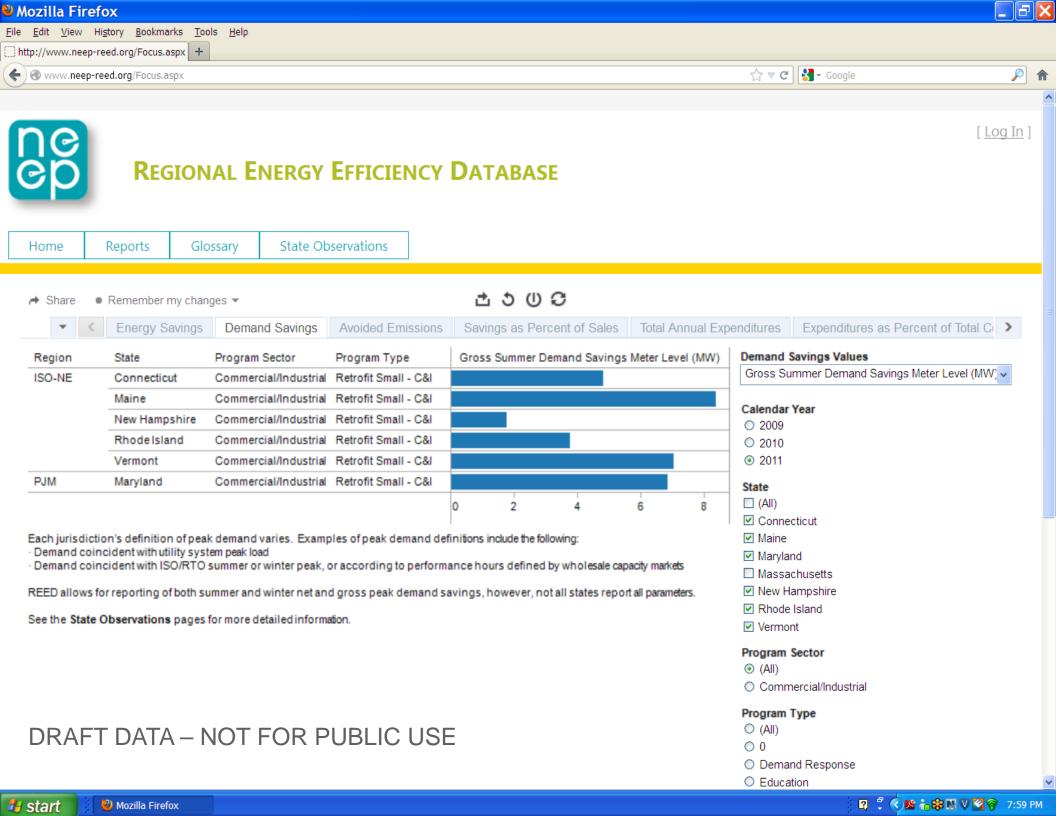


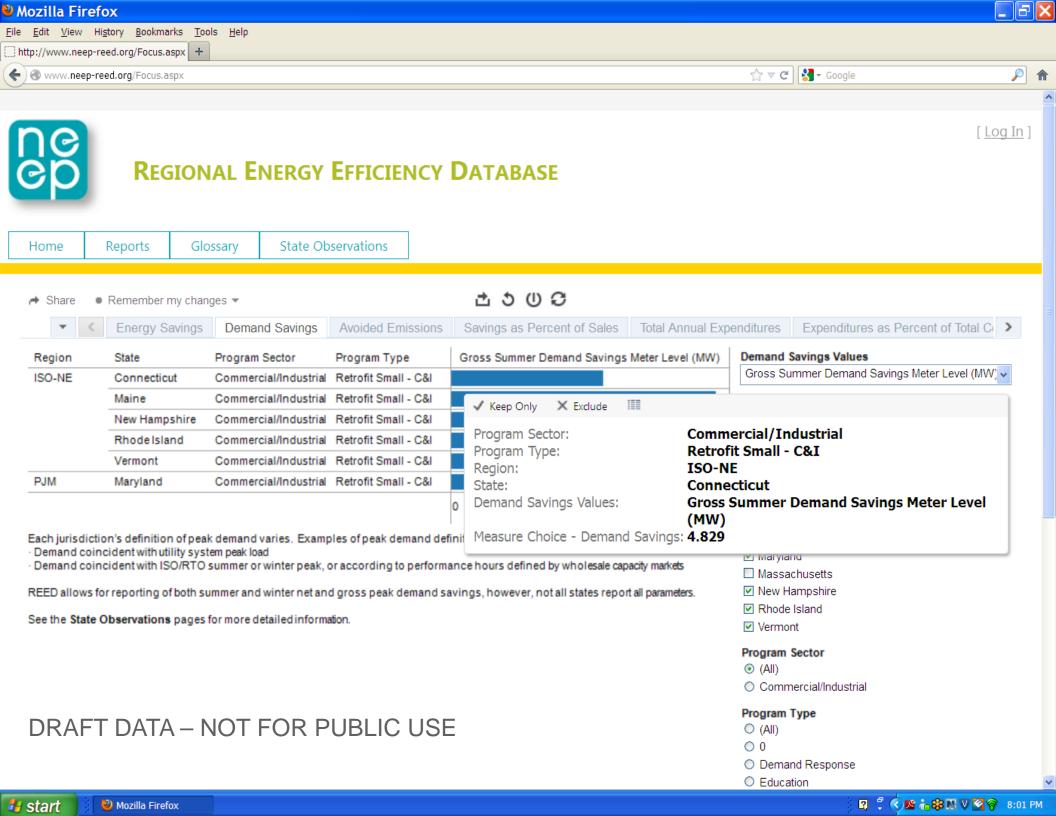














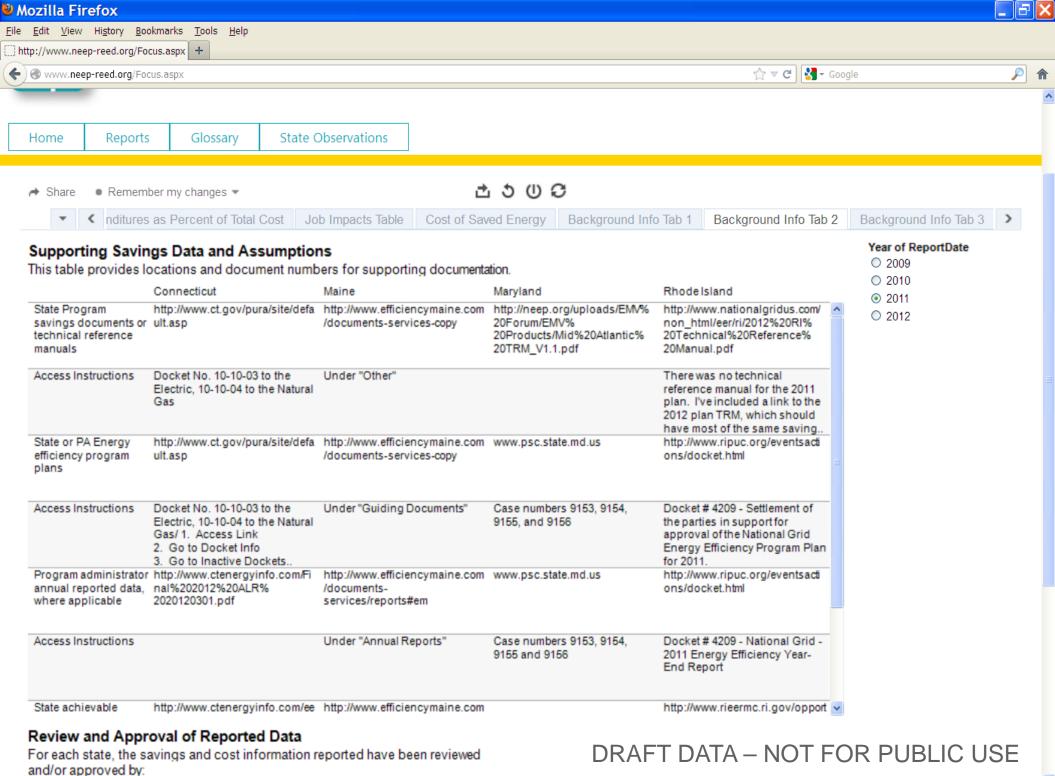
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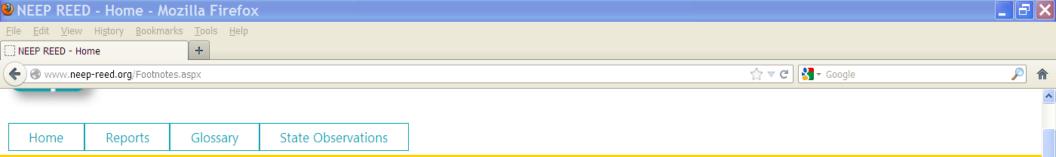






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STATE OBSERVATIONS

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CONNECTICUT:

- Program Administrator Data Submitted: Connecticut Light & Power, Connecticut Gas, Southern Connecticut Gas, United Illuminating (UI), & Yankee Gas
- Expenditures: Connecticut programs are funded through its system benefit charge, ISO-New England Forward Capacity Market (FCM) revenues, Regional Greenhouse Gas Initiative (RGGI) auction proceeds, and RPS compliance payment revenues. Expenditures were allocated according to the REED categories.
- **Peak Demand Definition**: Connecticut's peak demand reporting is consistent with ISO-NE's definition of summer and winter peak demand. Data submitted for Connecticut includes both gross and net demand savings.
- **Program Types**: Connecticut's programs correspond with the program sectors and types listed in REED.
- Emissions Factors: Connecticut's avoided emissions are based on average annual emissions factors for the ISO-New England region.
- Cost of Saved Energy: For REED, Connecticut's levelized cost of saved energy is calculated using a real discount rate of 2.46% (source: 2011 Avoided Energy Supply Costs study). In practice, Connecticut uses a discount rate of 7.5 percent for their electric utilities and 7.0 percent for their natural gas utilities for cost-effectiveness screening and reporting purposes. The average measure life has been calculated from program savings values in Table 2.
- Jobs Impacts: Connecticut is not submitting jobs impacts data for its programs at this time.

MAINE:

- Program Administrator Data Submitted: Efficiency Maine Trust
- Expenditures: Maine programs are funded through its system benefit charge, ISO-New England Forward Capacity Market (FCM) revenues, Regional Greenhouse Gas Initiative (RGGI) auction proceeds, and American Recovery and Reinvestment Act (ARRA) funds. Expenditures were allocated according to the REED categories, with 'Other Expenditures' representing technical support expenditures.
- Peak Demand Definition: Maine's peak demand reporting is consistent with ISO-NE's definition of summer and winter peak demand. Data submitted for Maine includes both net and gross demand savings.
- Program Types: Maine's programs correspond with the program sectors and types listed in REED.
- Emissions Factors: Maine's avoided emissions are based on average annual emissions factors for the ISO-New England region.





THANK YOU!

For more information, please contact:

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Regional EM&V Forum

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