



NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS

REGIONAL EM&V FORUM ANNUAL PUBLIC MEETING

Gearing up for 2012-14: What's Next?

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Albany NY - October 12, 2011

2012-2014 Plan Overview

(Results from Forum Evaluation - July 2011)



- Continue 3 Core Substantive Functions plus Base Operations Function:
 1. Protocol Development/Implementation
 2. Research & Evaluation
 3. Education & Information Access
 4. Base Operations
- Emphasis on R&E, with focus on Forum product implementation
- Maintain existing Forum operational structure (with some improvements)
- Forum Funding/budget:
 - Maintain cost allocation framework
 - Continue to leverage \$\$ across Forum and new states, federal grants, new sources (ISOs/RTOs?)
 - Budget: maintain past funding levels, approx \$2 million/year

2012-2014 Plan Overview

Forum Goals and Objectives

(Results from Forum Evaluation - July 2011)



1. Focus on effective use and implementation of Forum protocol/guidelines products in Forum states:
 - Use of Glossary, EM&V Methods & Savings Assumptions Guidelines
 - Implement Regional Energy Efficiency Database (REED) and evolve to meet state and regional needs
 - New protocol development efforts to target emerging technologies or other new areas
 - Forum participants to reference Forum products in e.g., PUC orders, guidance documents, EE plans, evaluation RFPs, etc.
2. Align/inform national protocols/guidance with Forum products (for EM&V methods, common reporting, and savings assumptions)

2012-2014 Plan Overview

Forum Goals and Objectives cont.

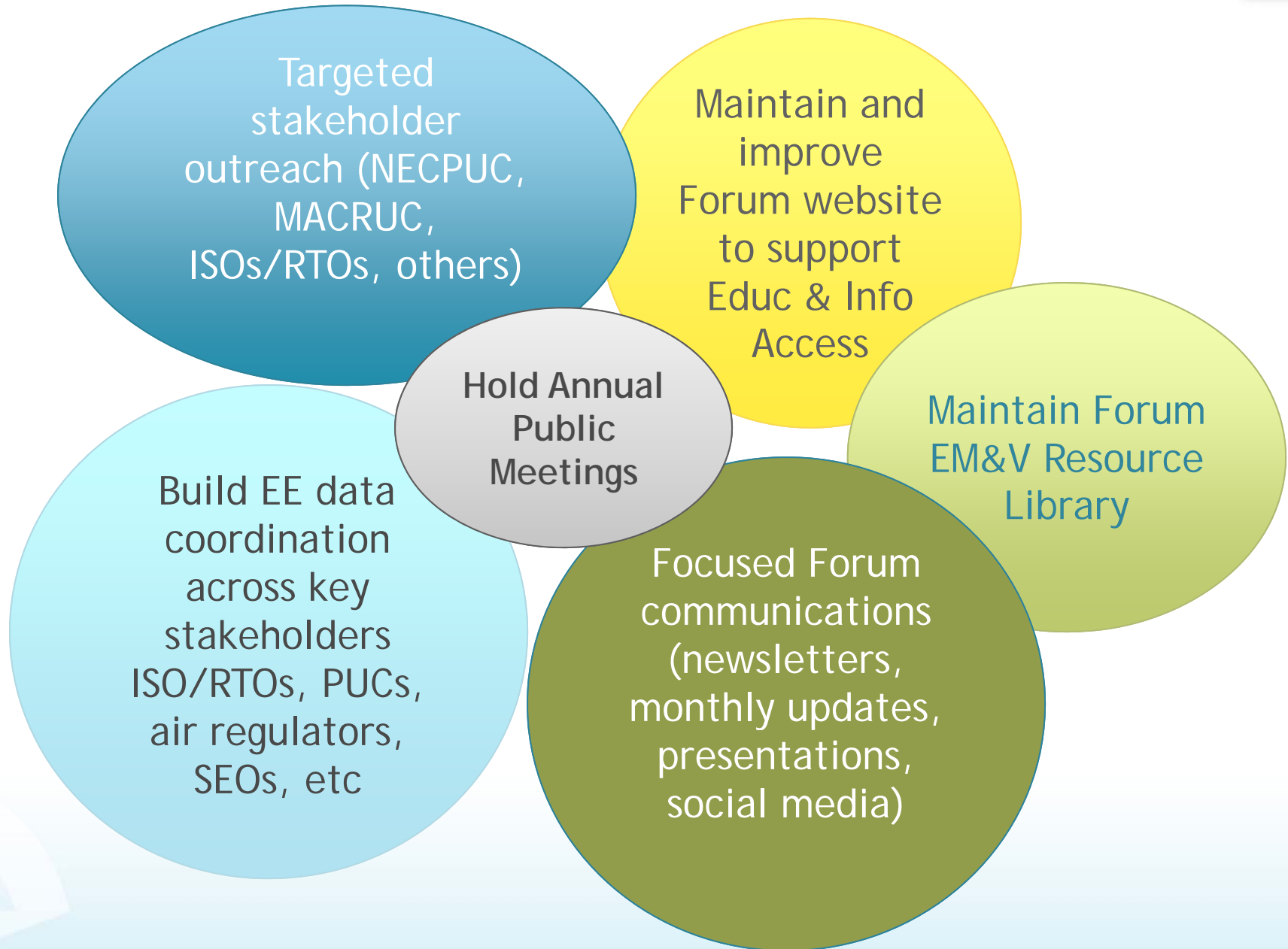
(Results from Forum Evaluation - July 2011)



3. ISO/RTO adoption and use of Forum products in planning and assessment of energy efficiency
4. Emphasis on joint research & evaluation projects to develop data assumptions to support EE program savings estimates

2012-2014 Plan Overview

What Will Education & Info Access Involve?



2012-2014 Plan Overview

Potential Projects



2012 - 2014 Potential Projects	
Protocol Development	Research & Evaluation
Policy Research on Current Practice and Challenges with Cost-Effectiveness Testing	Loadshape Research - Phase 3 (e.g., resid. lighting, data centers, commercial refrigeration, heat pumps)
Mid-Atlantic Technical Reference Manual - Phase 4	Incremental Cost Research - Phase 2
Regional EE Database Modifications	Measure Persistence Research - Phase 2
Methods for Calculating Impact of EE Programs on Codes & Standards	Market Share Research/Characterization (e.g., Resid / Comm lighting, HVAC)
Other?	Net Savings Research
Note: Projects may be sub-regional - TBD	

2012-2014 Plan - What's Next?

Regional Energy Efficiency Database (REED)



- Database builds on Forum *Common Statewide EE Reporting Guidelines*
- REED outputs/reports:
 - ✓ Background EE Info
 - ✓ Annual incremental energy savings
 - ✓ Lifetime energy savings
 - ✓ Peak demand savings (summer/winter)
 - ✓ Expenditures, cost of saved energy
 - ✓ Avoided emissions
 - ✓ Job impacts
 - ? *Other: Forecasted EE Data*
- Project subcommittee members include state entities (SEOs, PUCs, PAs, air quality reps), ISO/RTO staff
- Launch in Jan-Feb 2012, states to report EE program impacts for 2011 program year
- Interactive Reports - view data graphically by selected state(s) or region(s), compare and/or aggregate data



REED DATABASE PROCESS





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FORMS

Current Reporting Period: **12/31/2011** ; after completing and uploading all forms you can submit the report to NEEP.

Jurisdiction/State

Rhode Island

Reporting Period

12/31/2011

Show only forms not yet uploaded

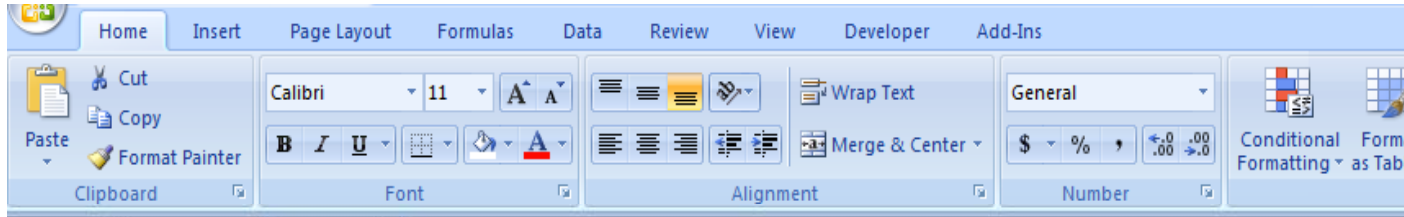
Include overwritten forms

Form Name	Form Description	Download Blank Form	Upload Completed Form	Date Uploaded
Table1.0	<input checked="" type="checkbox"/> Description of Reported Energy Efficiency Savings			8/28/2011
Table1.1	<input type="checkbox"/> Incremental Annual Energy Savings			
Table1.2	<input type="checkbox"/> Energy Efficiency Program Lifetime Energy Savings			
Table1.3.1	<input checked="" type="checkbox"/> Summer Peak Annual Demand Savings			9/14/2011
Table1.3.2	<input type="checkbox"/> Winter Peak Annual Demand Savings			
Table2.1	<input type="checkbox"/> Efficiency Program Funding Sources			
Table2.2	<input type="checkbox"/> Electric and Gas Energy Efficiency Program Expenditures			
Table2.3	<input type="checkbox"/> Cost of Saved Energy			
Table3	<input type="checkbox"/> Avoided Emissions			
Table4	<input type="checkbox"/> Job Impacts from Energy Efficiency Investments			

Status

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COMPLETE FORMS - EXCEL COLLECTION SPREADSHEETS



	A	B	C	D	E	F	G	H	I
3		ENERGY EFFICIENCY PROGRAM SAVINGS	Generation	Meter	Generation	Meter			
4		Residential Non-Low Income Customer	Level	Level	Level	Level			
5		by Program (Enter Program name below)							



	A	B	C	D	E	F	G	H	I
13									
14									
15									
16									
17									
18									
19									
20									
21									

Report Incomplete: Please enter values in all fields with red backgrounds

Table 1.3.1: Summer Peak Annual Demand Savings

Jurisdiction/State	Program Year	Adjusted Gross Demand Savings		Net Demand Savings	
		Generation Level (MW)	Meter Level (MW)	Generation Level (MW)	Level (MW)
Summer Peak Demand Savings by Sector and Program					
ENERGY EFFICIENCY PROGRAM SAVINGS					
Residential Non-Low Income Customer Sector		-	2,000.000	-	-
Residential Low Income Customer Sector		-	-	-	-
Commercial & Industrial Customer Sector		-	-	-	-
TOTAL ENERGY EFFICIENCY PROGRAM SAVINGS		-	2,000.000	-	-
TOTAL DEMAND RESPONSE PROGRAM SAVINGS		-	-	-	-
TOTAL SUMMER PEAK DEMAND SAVINGS		-	2,000.000	-	-

Notifications

Required fields

Data value validation

Summer Annual Demand Savings - coincident with:

Utility Peak Demand ISO/RTO System Peak Other

Provide description of peak coincidence hours (e.g., average hours, maximum hours during peak):

Jurisdiction/State: XXXXX		Program Year: 20YY
1. General Information on Reported Data		
1.1 Final annual savings data reported in what quarter of the following program year.		<input type="checkbox"/> 1st Qtr. <input type="checkbox"/> 2nd Qtr. <input type="checkbox"/> 3rd Qtr. <input type="checkbox"/> 4th Qtr.
1.2 Reported data can be characterized as:		
<input type="checkbox"/> Tracking Estimates. Where reported savings are based on year-end tracking data that <input type="checkbox"/> Savings Estimates Informed by Program Year Evaluation. Where adjustments are made to Tracking Estimates based on program year evaluation activities (e.g., third party review such as verification of installations, impact evaluations, etc. Please generally describe types of EM&V activities: _____ Are evaluation results systematically incorporated into following year Savings Tracking <input type="checkbox"/> Yes or <input type="checkbox"/> No		
2. Gross Savings		Applied to Some or All Programs?
2.1 Adjusted Gross Energy Savings	Adjustments include:	
Please indicate types of adjustments made to Gross Energy Savings (or that are included in Realization Rate). Indicate if adjustments are made to some or all programs/measures.	<input type="checkbox"/> Data Errors <input type="checkbox"/> Measure Persistence Factor <input type="checkbox"/> Savings Persistence Factor <input type="checkbox"/> In-Service Rate <input type="checkbox"/> Interactive Effects <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____	<input type="checkbox"/> Some or <input type="checkbox"/> All Programs <input type="checkbox"/> Some or <input type="checkbox"/> All Programs <input type="checkbox"/> Some or <input type="checkbox"/> All Programs <input type="checkbox"/> Some or <input type="checkbox"/> All Programs <input type="checkbox"/> Some or <input type="checkbox"/> All Programs <input type="checkbox"/> Some or <input type="checkbox"/> All Programs <input type="checkbox"/> Some or <input type="checkbox"/> All Programs
3. Net Savings		Applied to Some or All Programs?
3.1 Net Savings	Adjustments include:	
Indicate types of adjustment incorporated in reported net savings. (Check all that apply.)	<input type="checkbox"/> Free Ridership <input type="checkbox"/> Participant Spillover <input type="checkbox"/> Non-Participant Spillover <input type="checkbox"/> Other _____	<input type="checkbox"/> Some or <input type="checkbox"/> All Programs <input type="checkbox"/> Some or <input type="checkbox"/> All Programs <input type="checkbox"/> Some or <input type="checkbox"/> All Programs <input type="checkbox"/> Some or <input type="checkbox"/> All Programs



REED Table 1.0

Provides transparency to help identify where inconsistencies in state reported data may exist (to be addressed in future versions as common definitions are developed)

REED Table 1.0 Access to Data Sources, Supporting Material



4. Supporting State Energy Savings Assumptions and EM&V Process Information

4.1 Supporting Savings Data and Assumptions. For more detailed information regarding supporting

- a) [STATE] Program savings documents (or technical reference manuals):
- b) [STATE] or [PA] Energy efficiency program plans: www.providelink.com
- c) Program administrator annual reported data, where applicable: www.providelink.com
- d) [STATE] achievable potential studies: www.providelink.com
- e) Other

4.2 Review and Approval of Reported Data. The savings and cost information reported have been

- [STATE PUC]
- [STATE ENERGY OFFICE]
- Other _____

4.3 Evaluation, Measurement and Verification (EM&V) Protocols/Methods. The EM&V protocols or

- State PUC prescribed guidelines/methods: www.providelink.com
- Energy Efficiency M&V standards required by regional system operator [ISO New England] OR
- The Regional EM&V Forum Methods and Savings Assumptions Guidelines:
- Other (Describe) _____

5. Sources of Funding For Reported Energy Efficiency Activities (check all that apply):

- Electric Ratepayer Funded Programs
- Natural Gas Ratepayer Funded Programs
- Regional Greenhouse Gas Initiative (RGGI) Allowance Proceeds
- Wholesale capacity market revenues (ISO NE Forward Capacity Market/PJM Reliability Pricing
- Weatherization Assistance Programs (WAP)
- American Recovery and Reinvestment Act (ARRA) Funds
- Other (Describe): _____

VIEW REPORTS

SAMPLE REPORT

COMPARISON OF COST OF SAVED ENERGY

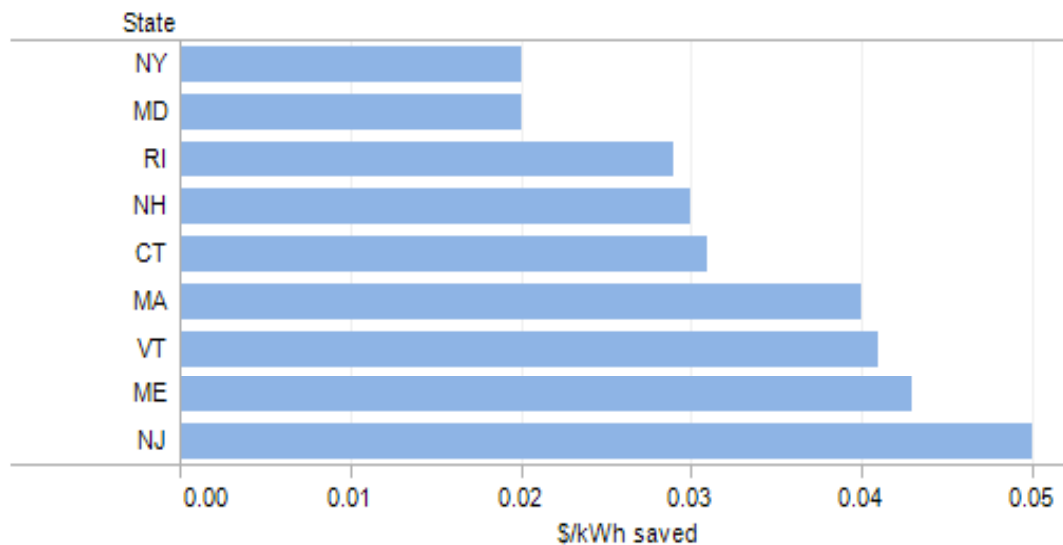


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Cost of Saved Energy



2012-2014 Plan Overview

Role of Forum Product to Support Air Quality and Climate Change Planning



1. Consistent reporting of EE data is key to helping build credibility of efficiency as strategy to meet to State Implementation Plan (SIP) compliance
2. Consistency in underlying EM&V methods used to evaluate savings is critical to determination of whether savings estimates meet EPA criteria for obtaining SIP credit
3. Build EE data coordination between EE stakeholders to support forecasting efforts: air regulators, climate change stakeholders, PUCs, ISO/RTOs, EIA, others...

2012-2014 Plan

Next Steps - Development of Forum 3-Year Plan



October - December:

- NEEP on-going outreach/discussion with Forum states to review draft agenda and budget for 2012-14 Plan
- Confirm Forum revenues (state proceedings, US DOE, US EPA, grants)
- Present 2012-14 Draft Plan to NEEP Board end of October
- November 17 Project Committees review/input on Final Draft Plan
- Final 2012-14 Plan with 2012 detailed agenda/budget for Steering Committee adoption - December 8



For more information:

<http://neep.org/emv-forum>

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