



Regional EM&V Forum Holds First Annual Public Meeting

On September 16, the Regional Evaluation Measurement & Verification Forum (EM&V Forum) held its first Annual Public Meeting in Providence, Rhode Island. The event drew over 90 attendees including energy efficiency program administrators, policymakers, regulators, system planners, and efficiency consultants. This day-long meeting featured several panel discussions and a luncheon presentation about EM&V related topics that provided attendees with a wide range of perspectives about current EM&V issues.

The Annual Public Meeting began with a warm welcome from Sue Coakley, NEEP's Executive Director, and Julie Michals, Director of the EM&V Forum, followed by opening remarks from Sharon Reishus, Chair of the Maine Public Utilities Commission and co-chair of the EM&V Forum's Steering Committee. Ms. Reishus

"[EM&V] enhances public confidence [that energy efficiency] is truly a sound investment, both economically & environmentally."

Sharon Reishus, Chair, Maine Public Utilities Commission

noted that the Steering Committee and the Forum as a whole have "settled into a groove" now that the Forum is nearing the end of its first full year of operation. She stressed that EM&V "enhances public confidence" that the money being spent on energy efficiency programs is "truly a sound investment, both economically and

environmentally." Ms. Reishus applauded the Forum for its unique role in bringing together diverse EM&V stakeholders such as public utility commissioners and air regulators.

The first panel of the day, *State of the Forum*, provided meeting attendees with information about the state of the EM&V Forum after its first year of operation. Ms. Michals described the Forum's accomplishments to date since its launch in July 2008, including securing the participation and funding commitments from eleven jurisdictions and several subscribers, adopting its first product (the Forum Glossary of Terms & Acronyms), issuing RFPs and beginning work on several large Forum projects, developing a communication system, and participating in numerous regional and national EM&V efforts. Ms. Michals' presentation was followed by in-depth updates about the Forum's specific project activities from Forum Project Committee Co-chairs Larry Pakenas (New York State Energy Research Development Authority) and Jeremy Newberger (National Grid), and Matthew McCaffree (Institute for Electric Efficiency), an active Forum subscriber. Elizabeth Titus, the Forum's Re-

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Upcoming Events:

October 27, 2009
Steering Committee Quarterly Meeting

December 10, 2009
Project Committee Quarterly Meeting



search and Evaluation Manager, wrapped up the panel with an overview of potential Forum projects for 2010, and the criteria and process for developing the 2010 agenda and budget.



Following the *State of the Forum* panel, the meeting shifted its focus from the Regional EM&V Forum to general EM&V related issues. In the *How Much EM&V is Enough?* panel, Rich Sedano (panel moderator and EM&V Forum Steering Committee co-chair), invited the speakers to discuss their views on balancing savings certainty, EM&V costs, and meeting energy and environmental goals with energy efficiency. Commissioner Clifton Below (NH Public Utilities Commission and Forum Steering Committee member) provided examples of efficiency activities in NH, and stressed the need for good EM&V. Anne George (ISO New England) provided a system planner perspective, stressing the need for EM&V for efficiency to support system reliability, according to M&V standards developed for the Forward Capacity Market. From a utility's view, Rebecca Craft (Consolidated Edison) offered that EM&V should not introduce additional risk to utilities (e.g., assessing attribution), but rather efforts should focus on addressing rigor early in the EM&V process (e.g., baseline studies), conducting primary research, and estimating avoided costs. Fellow Steering Committee members Phil Cherry (DE Dept of Natural Resources and Environmental Control) and Nancy Seidman (MA Dept of Environmental Protection) both brought an air regulatory and climate change perspective to the panel. Mr. Cherry emphasized the importance of EM&V to meet multiple policy needs, including ozone attainment and climate change, and the need to communicate EM&V results to policymakers in a simple and clear manner.

In the closing Q&A period, the question of "what is the right amount to spend on EM&V" in terms of percent of total efficiency budgets was raised. With numbers like 5% up to 10% being offered by the panel and audience, the lingering thought was that there probably is no "right" number, but rather that policymakers need to determine what is a reasonable cost for an appropriate level of rigor upon which they can rely on efficiency to meet a range of energy, economic and environmental policies.

During the luncheon, speaker Kathleen Hogan from the U.S. Environmental Protection Agency provided her perspective on energy efficiency

EM&V Forum Annual Public Meeting Highlights

First Annual Public Meeting for the Regional EM&V Forum.

Diverse attendees included energy efficiency program administrators, policymakers, regulators, system planners, and efficiency consultants.

State of the Forum panel updated attendees about Forum activities and plans for 2010.

How Much EM&V is Enough? panel shared views on balancing savings certainty, EM&V costs, and meeting energy and environmental goals with energy efficiency.

Measuring Net Savings panel shared views about the value of measuring gross energy savings as compared to net energy savings resulting from efficiency programs.

Bridging Regional and National Efforts panel featured speakers from organizations and government agencies who work with EM&V at the national level.

The 2009 EM&V Forum Annual Public Meeting agenda and presentations are posted on the [EM&V Forum website](#)



EM&V in a carbon constrained world. Ms. Hogan stated that energy efficiency is critically important as society faces a wide range of energy and environmental issues including climate change, and that numerous studies demonstrate the tremendous potential that energy efficiency has to meet greenhouse gas reduction goals. Ms. Hogan stressed that a new energy policy framework is needed to capture this potential and to overcome market and regulatory barriers to achieving greater energy efficiency, and that such a new framework could “take energy efficiency from the fifth fuel to the fuel of first choice.” She added that EM&V methods are important since they bring accountability to energy efficiency programs. Ms. Hogan closed by emphasizing the importance of the Regional EM&V Forum as a way to integrate planning efforts, cross disciplinary lines, and bring together a broad group of stakeholders. She stated that “this type of work is sorely needed across the country.”



The afternoon session kicked off with an engaging panel discussion that focused on *Measuring Net Savings* in a changing efficiency paradigm. Moderated by Chris Neme (Vermont Energy Investment Corp., and a Forum Project Committees co-chair), the panel shared divergent views about the value of measuring gross energy savings as compared to net energy savings resulting from efficiency programs. Speakers Carol White (National Grid), William Saxonis (NY Department of Public Service), Ralph Prah (Consultant to MA Energy Efficiency Advisory Committee), and John Moskal (US EPA) together demonstrated how this issue is one of the foremost issues currently facing EM&V efforts, and their presentations and comments led to a spirited question and answer period.

The final panel of the day, *Bridging Regional and National Efforts*, featured panelists from organizations and government agencies who work with EM&V at the national level. Moderated by Joe Loper of the Alliance to Save Energy, the panelists each described their respective organization’s or agency’s developments and/or interests in the EM&V area, and how EM&V efforts at the national level can be informed by regional EM&V efforts such as the Forum. Don Gilligan (NAESCO) brought the perspective of the merchant energy service company, concluding in his final slide that what “keeps ESCOs awake at night” is the multiple guidelines/protocols that exist in the field, and confusion in the marketplace and cost of meeting multiple sets of standards. Mr. Gilligan encouraged fellow stakeholders to develop a single set of EM&V protocols from which multiple applications could be built for different users/purposes. Eric Winkler presented on behalf of the North American Energy Standards Board to describe the NAESB standard development process and recent efforts to develop M&V standards for wholesale and retail demand responses, with NAESB next turning to energy efficiency M&V. Faith Lambert (US DOE) and Denise Mulholland (US EPA) each provided a summary of their agency’s respective efforts and interests in EM&V, with Ms. Lambert giving an overview of US DOE ARRA Stimulus programs and M&V and reporting guidelines, while Ms. Mulholland briefed the audience on the National Action Plan for Energy Efficiency (NAPEE) M&V project, which is in the first phase of gathering information from EM&V users on the processes, uses, and scope of EM&V across the country. At the conclusion of the panel, it was noted that the panel provided “great insights into the range of overlapping initiatives underway,” which the EM&V Forum will continue to monitor and identify areas and opportunities for coordination.

The Regional EM&V Forum would like to thank everyone who made the 2009 Regional EM&V Forum Annual Public Meeting a great success! We look forward to next year’s Annual Public Meeting to be held in the fall of 2010. The agenda and presentations from this year’s meeting are posted on the [EM&V Forum website](http://www.neep.org).



Forum Subscriber Profiles

The Regional EM&V Forum would like to thank its 2009 subscribers for supporting the Forum. The following subscriber profiles provide an overview of each subscribing organization and its views about Forum projects and activities.

- *Conservation Services Group*
- *Institute for Electric Efficiency*
- *North American Insulation Manufacturers Association*

Conservation Services Group

Conservation Services Group is celebrating its 25th year of helping consumers and businesses lower energy usage while increasing comfort, health, and safety and protecting the environment. CSG designs and implements programs that mitigate climate change and enable clients to save money on energy costs.

When asked why CSG subscribes to the Forum, Chairman and CEO Steve Cowell stated, "one of the most important, if not *the* most important, outcome of what we do is measured savings. It is the ultimate yardstick by which we are judged." He added that the EM&V Forum's work to establish a common set of measurement and verification standards and procedures will help program implementers like CSG to fully understand the efficacy of their programs, which is critical to their work.

Looking forward to potential future Forum activities, CSG believes that the Forum should start to get an advanced sense of how EM&V will intersect with emerging Smart Grid technology.

When considering CSG's 25 year history, Mr. Cowell is most proud of the number of organizations and institutional networks that CSG has helped to support and create that have turned energy efficiency into a "robust and serious industry."

Conservation Services Group plans to subscribe to the Forum again in 2010.

Become a Forum
Subscriber through
NEEP's
Partner Program

Contact Laura DeAngelo at

ldangelo@neep.org

CSG: Quick Look

Mission is to promote energy efficiency and the development of renewable energy resources to:

- Protect the environment
- Make homes and buildings safer, healthier, more comfortable, more durable, and more affordable
- Create a profitable, sustainable industry focused on the wise use of energy

CSG educates individuals and businesses in energy efficiency, helping design programs that will reduce their energy use.

"One of the most important, if not *the* most important, outcome of what we do is measured savings. It is the ultimate yardstick by which we are judged."

Steve Cowell
Conservation Services Group
Chairman and CEO



Institute for Electric Efficiency

IEE, a program of the Edison Foundation, advances energy efficiency practices and demand response among electric utilities, promotes energy efficiency and demand response information sharing, and is working to develop a resource base of effective business models, practices, and processes. IEE's members represent about 70% of the electric industry.

According to Matthew McCaffree, Manager of Electric Efficiency, IEE became a Forum subscriber because its many active members in the northeast felt that it was important to have a role in the regional EM&V discussion. He added that IEE was set up to explore how utilities can make a business out of selling less of a product through efficiency, and the use of transparent and reliable EM&V is the only way to make that happen.

IEE found the first completed Forum project, the Glossary of Terms and Acronyms, to be particularly important since it helped "get everyone to speak the same language." Mr. McCaffree added that IEE plans to share the Glossary with its members throughout the nation, not just members in the region.

IEE believes the Regional EM&V Forum has a particularly valuable role in educating regulators and other EM&V stakeholders about the importance and value of EM&V to both ratepayers and utilities.

IEE plans to subscribe to the Forum again in 2010 since its members continue to believe in the importance of participating in the Forum.

North American Insulation Manufacturers Association

NAIMA is a trade association of North American manufacturers that promotes energy efficiency and environmental preservation through the use of fiber glass, rock wool, and slag wool insulation products and encourages safe production and use of these insulation products.

Kate Offringa, NAIMA's President and CEO, shared that NAIMA became a Forum subscriber because it believes that NEEP does excellent work, and it wants to participate in and financially support NEEP's regional energy efficiency projects and programs.

In addition to subscribing to the Regional EM&V Forum in 2009, NAIMA also subscribed to NEEP's Public Policy and Regional Energy Efficiency Initiatives business lines.

Ms. Offringa stated that NAIMA finds it important to support regional energy efficiency advocacy groups like NEEP and the Forum that bring efficiency policies and programs to the attention of decision makers

IEE: Quick Look

IEE is a program of the Edison Foundation, a 501(c)(3) charitable organization, and is governed by a Management Committee of electric industry executives.

Members represent about 70% of the U.S. electric industry.

Membership is open to all electric utilities, including investor-owned utilities, public power utilities, electric cooperatives, and foreign utilities.

"Transparent, reliable EM&V is the foundation of building a business out of energy efficiency."

Matthew McCaffree
IEE
Manager of Electric Efficiency

NAIMA: Quick Look

NAIMA is a trade association of North American manufacturers of fiber glass, rock wool, and slag wool insulation products.

Since 1933, NAIMA and its predecessor associations have had as their foundation a dedication to rendering services to all segments of the construction industry.

NAIMA and its members feel strongly that energy efficiency and sustainable development are key to long-term energy security and sound environmental policies.



and implementers. NAIMA also relies on these groups to keep them apprised of any regional developments related to important efficiency issues.

Despite significant recent budget reductions, NAIMA continues to be very supportive of NEEP and the Forum and plans to stay engaged in 2010.



2009 EM&V Forum Projects Update

Protocol Development Projects

A1: Glossary of EM&V Terms & Definitions: Complete and adopted by the Steering Committee. View the Glossary [here](#).

A2: Develop Common EM&V Methods Guidelines and Survey Savings Assumptions: This project is underway, with contractor (KEMA) conducting interviews and research this fall to identify current EM&V methods used to estimate preliminary energy savings, calculate gross evaluated savings, and determine baseline conditions and measure persistence for a priority set of measures/programs. From this research, KEMA will develop recommended EM&V methods guidelines, including recommended levels of savings rigor, considering a range of policy/market purpose/needs. The project will also review savings/input assumptions for the priority measures/technologies and identify if/where greater consistency is recommended. A final report and guidelines will be available by the end of 2009. For more information, view the RFP [here](#).

A3: Survey Existing EE Savings Reporting Requirements and Needs, and Develop Common Reporting Guidelines: This project is underway, with the contractor (Nexus Market Research team) researching existing state and regional energy efficiency reporting requirements and practices, and identifying through interviews and secondary sources energy efficiency data needs to support state/regional environmental policies and energy planning systems. Final reports will be completed in late 2009, with recommended energy efficiency reporting guidelines and a reporting template by the end of March 2010. For more information, view the RFP [here](#).

A4: M&V Protocol Development in Wholesale Capacity Markets: NEEP participated in North American Energy Standards Board (NAESB) meetings held in August and September, which focused on beginning a NAESB project to develop M&V standards/model best practices for wholesale and retail energy efficiency. NEEP plans to assume an active facilitation role representing Forum participants in [NAESB's M&V efforts](#) to address DSM/EE issues this fall, and anticipates this effort will go into 2010 as well. NEEP also participated in a PJM Energy Efficiency Task Force meeting in August, in which PJM addressed lessons learned with energy efficiency implementation from the April 2009 Reliability Pricing Model (RPM) auction, and upcoming energy efficiency resources and M&V issues in the context of the RPM and incremental auctions. For more information, see the [EETF website](#). NEEP is also continuing to monitor activities of the NE-ISO pertaining to M&V for energy efficiency in the Forward Capacity Market.

A5: Develop Common Savings Assumptions/Technical Reference Manual - Mid-Atlantic States: An RFP was issued and the contractor (Vermont Energy Investment Corporation) has been selected. The project will involve developing a TRM for Maryland, Delaware, and the District of Columbia for a set of priority measures. A kick off meeting for the project is scheduled in October, and work is expected to be completed on development of common savings assumptions for 30 priority energy efficiency measures by April 2010. For more information, view the RFP [here](#).



Research and Evaluation Projects

B1: Phase 1 - Catalog Loadshape Data: The final report and catalogue of existing studies with loadshape data from North America has been completed. The report identifies and assesses the existence and availability of loadshape data for use in meeting energy efficiency, wholesale capacity market, and air regulatory program needs. It recommends short, medium and long-term strategies to fill gaps in loadshape data needs. View the final project materials [here](#).

B1: Phase 2 - Develop/Collect Loadshape Data to meet Regional Needs: Concurrent with the completion of the Phase 1 materials, NEEP distributed a survey to Forum participants to ascertain priority loadshape data needs in the region. The survey and the report were used to develop proposed scopes of work for two RFPs (one on lighting loadshape data and one for unitary HVAC loadshape data) that are under development as Phase 2 projects. The project is expected to continue into 2010, and the 2010 budget will be used to supplement funding.

B2: C&I Lighting Measure Life and Persistence Project: Contractor has been selected, and the project is underway. The scope of work for this project was modified so that the work will proceed in stages, and the final scope will be based on the results of information gathered from program administrators about program data. A kick off meeting for this project is scheduled for October. The project is expected to continue into 2010, and the 2010 budget may be used to increase the sample sizes for this project. For more information, view the RFP [here](#).

B3: Two Scoping Projects: Survey Net Savings Methods and Issues; Impact of EE Programs on Advancing Codes and Standards: An RFP for the net savings project is being developed. The project purpose is to lay the groundwork for the future development of regionally consistent, appropriate definitions and measurement approaches to net savings. The proposed schedule is to begin these scoping efforts in the latter part of 2009, with work continuing into 2010. The scope and RFP for the codes and standards project will likely be expanded and developed as a larger 2010 project.

Education and Information Access Projects

Several projects have been completed:

- The new EM&V Forum website was launched in early October.
- The first EM&V Forum Annual Public Meeting was held on September 16.
- The Forum Information Access and Confidentiality Policy was finalized. View the policy [here](#).

The EM&V Forum Resource Library is under development and will be completed by the end of 2009.

New EM&V Forum Website Launched

The EM&V Forum launched its new website in early October.

The redesigned Forum website was part of a larger effort to redesign the entire Northeast Energy Efficiency Partnerships website, www.neep.org.

Please visit the Forum's new website at <http://neep.org/emv-forum>.



EM&V Forum 2010 Project Planning

The Forum is currently engaged in the planning process for its 2010 project agenda. The proposed agenda is developed through the following process:

1. NEEP develops an initial list of possible projects informed by: a) Forum Three-Year Plan; b) areas of interest identified informally throughout the year by Forum participants; c) input from Project Committee co-chairs;
2. NEEP conducts a survey of potential projects with Forum participants to prioritize projects of greatest interest by each state;
3. Based on survey results, NEEP develops a proposed project agenda and develops estimated budgets (based on feedback from Project Committee co-chairs and outreach to evaluation experts) and circulates to the Project Committees for further discussion, changes and refinement;
4. NEEP conducts additional outreach to each Forum state to solicit further feedback and interest in the project areas, which also helps to further shape project scope/needs based on that feedback;
5. Based on the outcome of the above process, a recommended agenda goes to Steering Committee for adoption; and
6. Once the Steering Committee adopts the project agenda, NEEP then convenes project subcommittees which play the critical role of informing the full development of project scopes.

The Forum's Steering Committee will vote on the proposed 2010 Project Agenda at its next meeting on October 27. The Forum's next quarterly newsletter will include information about the slate of 2010 Forum projects.

Special Thanks to...

Steering Committee Co-chairs

Rich Sedano
Regulatory Assistance Project and
NEEP Board Member

Sharon Reishus
Chair, Maine Public Utility Commission

Project Committee Co-chairs

Carol White & Jeremy Newberger
National Grid

Chris Neme & Colleen Orsburn
VEIC

Larry Pakenas & Jennifer Meissner
NYSERDA

Mike Sherman
MA DOER

... and the EM&V Forum
Project Subcommittees

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