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April 2016

[Blog](#) | [Events](#) | [Resources](#)

In this Issue:

[Forum Participant Meeting](#)

[Annual Public Meeting Recap](#)

[Home Energy Management Systems](#)

[SEP Grant](#)

[EE Analysis News](#)

[Forum Project Updates](#)

[National EM&V Updates](#)

Mark Your Calendars

Upcoming Forum Meetings (and other NEEP meetings of potential interest)

April Showers Bring May...Forum State Participant Meeting

[REGISTER](#) for the Spring State Participant Meeting on May 19, 2:00-3:30pm.

This meeting will bring together Forum state participants to review the 2016 project agenda and scopes, deliverables, schedule, and state priorities based on discussions with states currently underway. We will also review new Forum working groups and revised Forum operational guidelines.

Annual Public Meeting and pre-day M&V 2.0 Workshop Recap

If you missed The Future of Evaluation Annual Public Meeting and pre-day M&V 2.0 Workshop in Hartford, CT on March 30-31, here's a short synopsis with links to materials.

On Day 1, the 'M&V 2.0' Workshop brought together more than 50 industry experts and interested stakeholders to review, learn and discuss the technical details,

Mid-Atlantic TRM
Subcommittee call: April
26, 2016

ICS Emerging Technology
Subcommittee call: April
28, 2016

Project Committee
Quarterly Meeting: Early
May, details forthcoming

Upcoming Webinars/Conferences

Forum Net Savings
Guidelines Final Report
Webinar: Mid May, details
forthcoming

Incremental Cost of
Emerging Technologies
Webinar: June, details
forthcoming

**Ecova Smart Energy
Efficiency Webinar:** May
5, 2016

AESP Spring Conference:
Philadelphia, PA; May 10-
12, 2016

**2016 Northeast Energy
Efficiency
Summit:** Bretton Woods,
NH; June 13-14, 2016

**AESP Summer
Conference:** Chicago, IL;
August 16-18, 2016

**2016 ACEEE Summer
Study on Energy
Efficiency in Buildings:**

opportunities and challenges of using advanced data collection tools and data analytics to support EM&V for EE programs. The workshop, planned in coordination with US DOE and Lawrence Berkeley National Laboratory (LBNL), covered both commercial and residential application, and included LBNL leading a brainstorm session on key elements of piloting M&V 2.0 for EE programs. Participants discussed the distinction between “E” and “M&V”, opportunities to ‘M&V 2.0’, including how it can shorten the evaluation time frame, provide for real-time program monitoring, and make evaluation more cost-effective, as well as limitations of automated M&V tools such as changing baselines, analysis of complex projects, assessing program influence. Issues around data privacy, proprietary tools, and accuracy of verified savings were front and center to the dialog. The LBNL pilot brainstorm provided helpful feedback on the type of programs that are good candidates for M&V 2.0 testing (e.g., small C&I), the pilot scope, and demonstration needs. Workshop presentations are available at [the M&V 2.0 Workshop website](#).

On Day 2, nearly 100 evaluators, regulators, program administrators, system planners, software vendors, and other interested stakeholders from across the region gathered to talk about the emerging world of integrated distributed energy resources, how utilities can prepare for and incorporate M&V 2.0 into their EM&V practices, and developments in national EM&V related standards. The discussion was broader than EM&V, including exciting developments and opportunities for tools that support increasing customer engagement. A consistent theme resonated throughout the day on the importance of regional collaboration and information sharing through testing/piloting tools, informing the development of M&V 2.0 software tool standards, and sharing knowledge and experience through future workshops, webinars and other meetings. Panel presentations are available on the [APM website](#)

The Annual Public Meeting built off of [The Changing EM&V Paradigm](#) - A Review of Key Trends and New Industry Developments, and their Implications on Current and Future EM&V Practices. See the final report and also the joint [ACEEE and NEEP press release](#), [Rocky Mountain Institute article](#), and [GreenTech Media article](#).

Pacific Grove, CA; August 21-26, 2016

2016 Behavior Energy and Climate Change Conference:

Baltimore, MD; October 20 – 22, 2016

Abstracts Due

Abstracts due by April 25, 2016 for AESP National Conference in Orlando, FL: Feb 13-16, 2017

Abstracts due by April 22, 2016 for AESP Online Conference on Customer Engagement: July 19, 12 – 4 pm ET

Forum Products

All Forum Products can be accessed by [clicking here](#)

In case you missed it:

Residential Lighting Deep Dive Brief - A comparison of savings assumptions across the Northeast and Mid-Atlantic. This new report dives deep into comparing and helping states understand key similarities and differences in various lighting parameter assumptions, where and why some are warranted, and where there may be opportunities for

[Back to Top](#)

Home Energy Management Systems (HEMs) at ACI Conference

The topic of M&V 2.0 was also covered at the recent Affordable Comfort Inc. (ACI) National Conference on April 4-7, which included a HEMS Workshop that provided a great opportunity for home performance stakeholders to better understand the HEMS technology and how to work with homeowners to integrate home energy management systems. Through close collaboration with the Home Performance Coalition, NEEP pulled together a day and a half of HEMS information, speakers, and technology showcase. The discussion ranged from new products and home energy labeling integration with HEMS, to program design and auto-M&V. [In addition to the 6 HEMS-Focused sessions on the ACI agenda, NEEP and HPC organized a lunchtime discussion and evening HEMS product showcase.](#) This workshop helped to increase visibility of HEMS amongst home performance stakeholders, as well as make progress in the discussion of the opportunities within Home Energy Management Systems. To learn more, contact [Claire Miziolek](#).

[Back to Top](#)

CT Hosts US DOE State Energy Plan (SEP) Grant on *Standardized, Sustainable and Transparent EM&V - Integrating New Approaches* with support from VT, NH, NY, MA, DC and DE.

CT Department of Energy and Environmental Protection (CT DEEP), the CT utilities (Eversource-CT and United

improved consistency across the states. The report includes a comparison of evaluation methods use for three Hours of Use (HOU) studies in the region, using the Forum's *Standardized EM&V Methods Reporting Forms*. Take a look!



Illuminating), Lawrence Berkeley National Laboratory (LBNL) and NEEP teamed together for this multi-year grant to explore and develop expertise and experience with advanced data collection and analytic tools to support EM&V (M&V 2.0). The proposed scope to DOE includes conducting pilot projects for both commercial and residential programs, developing resource guides, researching developments on M&V 2.0 across the country, informing standardized automated M&V software tool standards, and disseminating experience and knowledge with the supporting states. The project will take place over the 2017-19 period. Many thanks to CT DEEP for hosting the grant, and to the state commissions and state energy offices for their letters of support and committed monetary support. For more information please contact [Julie Michals](#).

[Back to Top](#)

State EE Data Analysis and Trends

[REED 2011-2014 data now available](#) and while you are looking at the newly posted data, check out the new [states information page](#) where you'll find up to date information on states. In February, NEEP added 2014 data to the regional database. Thanks to the states for their participation in helping ensure that REED data is accurate and consistent with data reported to state regulatory commissions. Stay tuned for the forthcoming **REED Snapshot** release, which is expected before end of the month, and captures highlights from REED data trends.

Finally, when you visit REED, you'll notice a new feature on the landing page, where in order to better serve the users of REED, an identification wall has been put in place to identify users, their priority areas of interest, and how best REED can be improved to better serve those users. Information gathered on users will also help to inform a future REED revenue model. If you have any questions regarding REED or EE Data Analysis and Trends, please contact [Colin Walker](#).

Check out the Regional Roundup of Energy Efficiency Policy, which features REED data! Last month, NEEP released our [2016 Regional Roundup of Energy Efficiency](#)

[Policy](#), which gives policymakers, regulators, efficiency proponents, program administrators and other stakeholders a comparative view of the progress of energy efficiency policies and programs across the Northeast/Mid-Atlantic region. In addition to the report itself, you can find our [brief summary here](#), and view our [recent webinar here](#).

[Back to Top](#)

Forum Project Updates

These short takes on Forum projects, along with subcommittee communications, are intended to keep you posted on the status of all active Forum Projects. If you have any questions regarding any projects or supporting materials, please contact [Julie Michals](#).

Research Projects Nearing Completion:

Net Savings: This guidance document is near completion, and will be available for review in late April. It is being developed by industry experts in conjunction with the subcommittee. It presents six principles pertaining to the concepts and use of net and gross savings, and it is intended to assist decision makers, evaluators, and interpreters of evaluation efforts pertaining to use of net and gross savings. A final draft will be available for review in late April. It also provides a framework linked to the principles, in which to discuss policy choices regarding gross and net savings. This guidance builds on several previous Forum projects and on the Uniform Methods Project chapter on Net Savings. Two papers that support the guidance are also under development – one discussing current and evolving issues, and one high level presentation of material on methods covered in the UMP chapter. For more information, contact [Elizabeth Titus](#).

Incremental Cost (Emerging Technologies): (NY, MA, CT, NH and RI). Energy & Resource Solutions Inc. is analyzing costs and incremental costs of a selection of energy efficient technologies that are just beginning to be delivered through efficiency programs or merit

consideration for inclusion in future programs. Preliminary research has been conducted on all measures in the study and shared with the subcommittee. (These include: variable capacity heat pumps – AC; advanced LED lighting controls; home energy “smart” products; high-efficiency rooftop packaged AC; integrated heat pump thermostats; advanced compressors for commercial refrigeration; compressed air diagnostics; advanced heat pump water heaters; Q-sync motors for evaporator fans). A draft of the spreadsheet format the final results has been prepared. The draft workbooks with data and draft project reports will be reviewed internally before the subcommittee reviews the final draft in late April. The final report will be delivered in May 2016, and a webinar is being planned for June. For more information, contact [Elizabeth Titus](#).

[RE15-5 Loadshape Data Catalog:](#) (MA, CT, NH, RI, VT). The contractor, DNV GL, is 90% of the way through populating the user-friendly spreadsheet (the format of this catalog) with parameters from existing metering studies. The catalog will undergo internal review in mid April, followed soon after by a final draft to be shared with the subcommittee by early May. In addition, DNV GL plans to summarize potential future loadshape research opportunities for program administrator consideration, such as knowledge gaps, opportunities to further leverage existing metering data, etc. The target for project completion is May 2016. For more information, contact [Elizabeth Titus](#).

[Mid-Atlantic TRM 2015 Update:](#) (MD, DE, DC). The subcommittee has convened to review the preliminary draft of TRM version 5. A final draft of the content will be distributed the third week of April, for final subcommittee review. The final product will be delivered in early May; this project is operating on an ambitious/accelerated schedule so as to meet regulatory needs this year in Maryland. For more information, contact [Elizabeth Titus](#).

[Back to Top](#)

National EM&V Updates

An important element to the Forum's work is to track national EM&V related issues for Forum states – below are several developments/updates in which NEEP is actively involved. If you have any questions, please contact [Julie Michals](#).

National EE Registry (NEER): The Climate Registry (TCR), in coordination with E4theFuture, convened an interested parties conference call on March 9, at which time it reviewed its process for informing the development of a national EE registry, where the development of its operational guidelines is being funded by a US DOE State Energy Program (SEP) grant during 2016-17, hosted by the state of Tennessee and supported by several other states and NASEO. The NEER development effort will involve input from a range of stakeholders, including NEEP, to inform its construct. NEEP's role will focus on advising the scope of standardized documentation of EM&V methods, building on the [Standardized EM&V Methods Reporting Forms](#) developed by the Forum. The NEER project aims to support a range of state, regional and national policies and markets, including potentially the Clean Power Plan. Learn more about the [NEER Project](#) where you can view the March 9 stakeholder kick off meeting presentation (at top left side of webpage.)

US DOE Uniform Methods Project (UMP): US DOE continues to work on developing protocols for specific program or measure types. A protocol on [Combined Heat Power \(CHP\)](#) was recently developed, which reflects current practice in the Forum region where CHP experience exists (e.g., RI, CT). A protocol on Strategic Energy Management Systems (SEMS) is in development and will likely be open for comment this spring. NEEP will review and comment on the SEMs protocol, in consultation with Forum participants and technical advisors. To view the range of UMP protocols, visit [US DOE Uniform Methods Project \(UMP\) EE Savings Protocols](#).

National Standard Practice Manual: The Home Performance Coalition (HPC) is launching an effort to develop an update to the California Standard Practice Manual. This project will build on the work of the [National Efficiency Screening Project \(NESP\)](#). The new manual will

be drafted by a group of well-known EM&V experts, including Tom Eckman, Tim Woolf, Steve Schiller, Chris Neme and Marty Kushler. As with the NESP effort, NEEP will monitor and inform this HPC project, and provide regular updates to Forum members. And consistent with both the NESP guidance and the Forum's [Cost Effectiveness Screening Guidelines](#), the National Standard Practice.

Evaluation Certification: The research team for this DOE sponsored research project delivered two memos to DOE in March: one summarizes results of research to identify and characterize key competencies and skills involved in gross impact evaluations; the other is a summary table characterizing six examples of existing certification-type offerings, which is part of the background research to inform the development of some possible certification implementation options. The purpose of this project is to assess feasibility and identify options for the development of a Certification Process for Energy Program Evaluators. The project will deliver a final report to DOE in July 2016. For more information, contact [Elizabeth Titus](#).

[Back to Top](#)

NEEP was founded in 1996 as a non-profit whose mission is to accelerate energy efficiency as an essential part of demand-side solutions that enable a sustainable regional energy system.

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