



**REGIONAL EVALUATION,
MEASUREMENT & VERIFICATION FORUM**

**Quarterly Project Committees Meeting
May 26, 2011, Teleconference Notes and Action Items**

Participants:

Name	Organization	Name	Organization
Sheldon Switzer	Baltimore Gas & Electric	Elizabeth Titus	NEEP
Phil Moffitt	Cape Light Compact	Debbie LaBelle	New York Department of Public Service
Cindy Jacobs	Connecticut Department of Public Utility Control	Donna DeVito	New York Department of Public Service
Kim Oswald	Connecticut Energy Efficiency Board, Advisor	Kathryn Mammen	New York Department of Public Service
Jennifer McWilliams	Conservation Services Group	Earle Taylor	Northeast Utilities, Consultant
Steve Waite	Consultant	Lisa Shea	NSTAR
Bahareh van Boekhold	Delaware Energy Office	Dave Weber	NSTAR
Emily Li	Forum Observer	Judeen Byrne	NYSERDA
Jarred Metoyer	KEMA	Helen Kim	NYSERDA
Michael Voltz	Long Island Power Authority	Laura Magee	PEPCO
Crissy Godfrey	Maryland Public Service Commission	Ruth Gay	United Illuminating
Huilan Li	Maryland Public Service Commission	Paul Gray	United Illuminating
Marilyn Ross	Massachusetts Department of Public Utilities	Nikola Janjic	VEIC / Efficiency Vermont
Paul Horowitz	Massachusetts Energy Efficiency Advisory Council, Advisor	Pierre van der Merwe	VEIC / Efficiency Vermont
Ralph Prah	Massachusetts Energy Efficiency Advisory Council, Advisor	Michael Wickenden	VEIC / Efficiency Vermont
Dave Jacobson	National Grid	Barry Murphy	Vermont Department of Public Service
Cecily McChalicher	NEEP	Pam Stonier	Vermont Public Service Board
Julie Michals	NEEP		

Meeting Action Items:

1. Forum participants to send NEEP any information about the use and implementation of Forum products in or outside the region.
2. Forum participants to direct any questions about information on the Forum Project Tracking Spreadsheets to the Project Manager identified in the project's spreadsheet.
3. For the *Forum Evaluation*:



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- a. Forum participants to contact Forum Evaluation Chairs Pam Stonier (pam.stonier@state.vt.us) and Laura Magee (lemagee@pepcoholdings.com) with any questions about the evaluation.
 - b. NEEP/Evergreen Economics to send out a standard letter the week of May 30 notifying selected Forum participants that they may be interviewed or surveyed as part of the Forum Evaluation.
 4. For the *Loadshape* projects:
 - a. Forum participants to send any comments on the Unitary HVAC loadshape report or spreadsheet tool to Elizabeth Titus (etitus@neep.org) by Tuesday, May 31.
 - b. KEMA to annotate the coincident factor tables to clarify that the relative precision meets PJM and ISO-NE requirements.
 5. For the *Net Savings* project, NEEP to post the Massachusetts study: "Cross-Cutting Free-Ridership and Spillover Methodology Study" by Tetra Tech, KEMA, and NMR Group for MA Program Administrators to the Project Committees private website with the other materials for this meeting, and will post the residential Massachusetts study when it is available in June.
 6. Forum participants to send comments on the draft *Emerging Technologies* project RFP to Julie Michals (jmichals@neep.org) by Tuesday, May 31.
 7. For the *Regional Statewide EE Reporting Tool and Database* project:
 - a. NEEP to reach out to representatives from each state in the next 10 days to identify the appropriate point person for the project.
 - b. NEEP to post the draft RFP for Forum review on Tuesday, May 31. Comments will be due by June 6, and the RFP will be issued on June 8.
 8. Forum participants who want more information about the draft SOW or conversations with US DOE pertaining to the *Codes and Standards* project to contact Elizabeth Titus.
 9. Forum participants are encouraged to attend NEEP's Residential Lighting workshop on June 7 and annual Summit on June 8 in Warwick, RI.
 10. The next quarterly Project Committees meetings are scheduled for June 28 (2-4pm) and November 17 (2-4pm).

Meeting Overview:

A. Introduction

Julie Michals (NEEP) opened the meeting and introduced the meeting attendees. She reviewed the agenda items, which include: 1) Operational Updates, 2) Evaluation of the Regional EM&V Forum, 3) Loadshape Studies, 4) Net Savings Project, 5) Emerging Technologies/Program Designs, and 6) Short Briefs on other Forum Projects: Status and Schedule.

B. Operational Updates

Julie Michals reviewed the leadership structure of the Forum, including the Project Committees co-chairs: Pam Stonier, Crissy Godfrey, Dave Jacobson, Tom Belair, Lisa Shea, Helen Eisenfeld, and Mary Cahill; and the current Steering Committee co-chair: Rich Sedano. The second Steering Committee co-chair position remains open, and NEEP is working to fill this position in the near future. She explained that the Project Committees co-chairs have been particularly active in the Forum Evaluation.

Julie Michals provided an overview of the March Steering Committee meeting. In this meeting, the Glossary of EM&V Terms and Acronyms, Version 2 was adopted, and the Mid-Atlantic TRM Version 1.2 was presented and accepted as a final Forum product. The status of state implementation, use, referencing of Forum products was also reviewed. The Steering Committee reviewed the 2011 agenda and budget and addressed the loss of full funding from Delaware and partial funding from Maine.

Julie Michals encouraged Forum participants to use completed Forum products, which are all posted to the EM&V Forum website at: <http://neep.org/emv-forum/forum-products-and-guidelines>, in their work. Several Forum products will be completed and available this summer: Loadshape Studies, Incremental Cost Study, Mid-Atlantic TRM Version 2, and the Commercial Lighting Persistence Study.

Julie Michals provided several examples of the current use of Forum products in and outside the region. For example, the New York Evaluation Guidelines reference the Forum Glossary and EM&V Methods Guidelines, ISO New England built its energy efficiency data collection spreadsheet from the *Common EE Reporting Guidelines* tables and definitions, and the North American Energy Standards Board (NAESB) referred to the Forum's Glossary and EM&V Methods Guidelines when drafting its retail M&V model best practices. Forum participants were asked to send NEEP any other information about the use and implementation of Forum products in or outside the region.

Julie Michals provided a 2011 budget update. Funding confirmations have been received from all but Delaware, Maryland and New York, and there is an unexpected shortfall in funding from Maine. For Maryland and New York, NEEP is waiting for confirmation from each state's Commission approving funding. In Maryland, funding is available through June from the Maryland Energy Administration, and the Maryland Commission is being asked to authorize utility funding of the rest of the 2011 cost share. In New York, NYSERDA provides a recommendation to the New York Commission to fund the Forum.

Julie Michals reviewed the adjustments the Steering Committee made to the 2011 budget given the shortfall in funding due to Delaware and Maine. The Forum will move forward with rolling out priority 2011 projects (RFPs in progress) with minimal disruption, and maintain state cost shares per funding confirmations. Unexpended or uncommitted 2010-11 project funds will be applied to 2011 Base Costs and Project Cost shortfalls. The expectation is to use the unspent Net Savings, Incremental Cost Study, and/or 2011 Add-on Research budget to fill the budget gap.

Julie Michals reminded participants that the Project Tracking Spreadsheets are posted to the EM&V Forum website. These spreadsheets provide the most recent information NEEP staff has about each project and will be provided quarterly. Forum participants were asked to direct any questions about information on the Forum Project Tracking Spreadsheets to the Project Manager identified in the project's spreadsheet.

Action Items:

1. Forum participants to send NEEP any information about the use and implementation of Forum products in or outside the region.
2. Forum participants to direct any questions about information on the Forum Project Tracking Spreadsheets to the Project Manager identified in the project's spreadsheet.

C. Evaluation of the Regional EM&V Forum

Julie Michals provided an overview of the status of the Evaluation of the Forum. The evaluation will make recommendations on the Forum's scope, function and structure for an additional three year period, or another time period as may be recommended. NEEP has retained Evergreen Economics for this project. The project leads include Tami Rasmussen and John Boroski, formerly of ECONorthwest, and Phil Willems of PWP, Inc. Thus far, the contractor team has been very efficient and sensitive to the time and budget constraints of this project. NEEP received three bids in total for this project.

The approach to this study is similar to that used for the Feasibility Study that guided the development of the Forum in 2008. The Evergreen Economics team will complete interviews and surveys of current and former Forum participants. Subcommittee members for this project include all of the Project Committees co-chairs, Steering Committee co-chair Rich Sedano, and Laura Magee (PEPCO). The results of the Evaluation will be presented to the Steering Committee in July.

The Evergreen Economics team, with guidance from the project subcommittee, is currently developing the interview guide. NEEP staff is involved in project, but the project subcommittee is leading the project. For example, with the interview guide, NEEP provided suggestions of who should be interviewed, but the subcommittee will make the final call on who will be interviewed. NEEP will not know who will be interviewed and/or surveyed. NEEP/Evergreen Economics will send out a standard letter early next week giving selected participants a heads up that they may be contacted by Evergreen to be interviewed or complete a survey.

Julie Michals explained that NEEP staff will engage in a separate effort in late June/early July to conduct its annual survey of priority projects to consider for the following year. The Evaluation will dictate the Forum's scope for 2012, but it will not be complete by the time that the planning process for the following year usually begins. As such, NEEP staff would like to proceed as usual with its annual survey. The planning survey should not be confused with the survey for the Evaluation of the Forum, which will be distributed in early June.

Ralph Prael (Advisor to MA EEAC) asked if the Evaluation subcommittee has a Chair. Julie Michals replied that the lead subcommittee members are Pam Stonier (Vermont Public Service Board) and Laura Magee (PEPCo). These co-chairs are involved in all communications with Evergreen Economics. Forum participants can contact the co-chairs with any questions about the evaluation.

Action Items:

3. For the *Forum Evaluation*:
 - a. Forum participants to contact Forum Evaluation co-chairs Pam Stonier (pam.stonier@state.vt.us) and Laura Magee (lemagee@pepcoholdings.com) with any questions about the evaluation.
 - b. NEEP/Evergreen Economics to send out a standard letter the week of May 30 notifying selected Forum participants that they may be interviewed or surveyed as part of the Forum Evaluation.

D. Loadshape Studies

Elizabeth Titus (NEEP) introduced the loadshape projects and acknowledged the contractors from KEMA: Jarred Metoyer for the Unitary HVAC project, and Steve Carlson for the Commercial Lighting project. She also acknowledged consultant Steve Waite, the project sponsors, and the small beta test group that has tested the spreadsheet tool and reviewed the results of the analyses. She explained that the presentation provided today will be a high level overview of the loadshape projects.

The purpose of the projects is to generate savings loadshapes for every hour of the year for Unitary HVAC and Commercial Lighting measures. The results include effective full load hours and peak coincidence factors, which are commonly used in efficiency program planning and evaluation. Benefits of the projects include: 1) support savings calculations in forward capacity markets, program planning and evaluation, 2) allow users to specify time intervals over which they can calculate demand and energy savings, and 3) reduce data collection/analysis costs and increase the pool of data available. These projects were done as a result of the Phase 1 loadshape study, which affirmed that it makes sense to share data and make use of existing data.

Unitary HVAC Project Overview

Elizabeth Titus explained that the final project data will be available by request to NEEP. KEMA has spent more time than allocated for this project. NEEP will pay KEMA up to the \$598,000 that was in its original proposal, and will not pay the outstanding amount on the contract until the final deliverables are completed. The study is based on a statistical sample drawn from sponsors' program data. KEMA developed twelve strata, divided into six weather zones and two sizes of HVAC measures. KEMA

completed primary monitoring of 409 projects last summer, and also used secondary BG&E data for 55 projects. They created weather normalized hourly loadshapes for each stratum by modeling. Key parameters were calculated from the loadshapes and the spreadsheet tool was developed. A small group of project subcommittee members tested the spreadsheet tool and reviewed the results.

KEMA was able to obtain a good distribution of projects across weather zones. The sample was designed to achieve minimum peak demand estimate precisions of 10% at the 90% confidence interval for the aggregate loadshape. Normalized weather was provided by TMY3 data (typical meteorological year, based on 15 years of observations) for cities used to describe the six weather zones. Rebated economizers were excluded from the study.

Consultant Steve Waite provided a summary of the annual load factor and equivalent full load hour (EFLH) results by region. He also reviewed a graphic that showed how regions differ across the whole year. The intensity of use in New England is lower than in the Mid-Atlantic and New York. Some cooling was found outside of the summer months, even in New England. The small group diagnostic team of subcommittee members thoroughly reviewed this data to confirm it is a valid observation.

Steve Waite described the summary results for the FCM and PJM peak periods for coincidence factor and maximum load ratio. These results address three peak periods: ISO-NE on-peak, PJM on-peak, and the ISO-NE FCM seasonal peak. The relative precision for coincident factors and maximum load ratio are also presented.

Julie Michals asked about the relative precision identified in the table. She confirmed that both the 80% and 90% relative precision numbers are based on a 2-tailed confidence interval and a 90% one-tailed is the same as an 80% two-tailed. Therefore, the 80% relative precision presented in the middle column of the table is equivalent to a one-tailed at 90%. It was decided that the table should be annotated to clarify which column of relative precision values should be viewed with respect to the precision requirements for PJM and ISO-NE.

Commercial Lighting Project Overview

Elizabeth Titus explained that KEMA used existing metered data from evaluation studies in the region for this study. Most of data is for interior lighting linear fluorescent measures. The data was divided into 17 categories: 15 business types (based on CBECS) and 2 program types (small and large). This design addresses program administrators' needs, as some are required to present information by business type and others are required to present information by program type. The loadshape tool also allows users to input weights for each business type.

KEMA developed hourly loadshapes for the entire year and estimated interactive effects. Most of the lighting was only metered for a short period of time, and KEMA assumed that short-term metering for lighting is appropriate to extrapolate to a full year. The distribution of data across organizations and business types was fairly even. The earlier New England study treated each meter as equal, but in this study, usage data from each meter was aggregated to create site-level profiles.

Steve Waite provided an overview of full load hours and annual savings by profile type. Annual savings were provided with and without interactive effects across building type and size. Full load equivalent hours and relative precision were also included in the results. KEMA is working to provide additional precision data.

Steve Waite also presented results tables for ISO New England winter and summer coincident demand reduction, which provide the coincident kW reduction and coincidence factor, with and without interactive effects, and the relative precision. Precision in this study is not as good as the earlier New England study since it is stated on a site basis rather than a unit basis.

Elizabeth Titus explained the next steps for completion of the two loadshape projects. Forum participants are asked to provide comments on the Unitary HVAC study spreadsheet tool and report by the morning of Tuesday, May 31. The goal is to finalize the Unitary HVAC study by June 1. The lighting loadshape tool will be completed soon and will be reviewed by Steve Waite and the loadshape subcommittee members rather than all Forum participants.

Action Items:

4. For the *Loadshape* projects:
 - a. Forum participants to send any comments on the Unitary HVAC loadshape report or spreadsheet tool to Elizabeth Titus (etitus@neep.org) by Tuesday, May 31.
 - b. KEMA to annotate the coincident factor tables to clarify that the relative precision meets PJM and ISO-NE requirements.

E. Net Savings Project

Elizabeth Titus provided an overview of the status of the Net Savings project. She reminded participants that the Forum produced a Net Savings Scoping Study in November 2010. This paper, along with a Policy Committee meeting and several project subcommittee meetings, helped inform the scope of the 2011 Net Savings project (which was originally on 2010 agenda). The current scope of work for this project has changed from that originally reviewed by the project subcommittee earlier this spring and includes a slimmed down budget to match the modified scope. The tasks in the SOW include:

- *Task 1:* Develop common definitions for net savings and adjusted gross savings.
- *Task 2:* Share information about the recent Massachusetts net savings study and any other research that is available through a series of webinars. The webinars will include a review of the studies and facilitated discussion to determine what to do with this information in the future. This task departs from the original Task 2 scope, which was to develop guidelines on net savings methodologies.
- *Task 3:* Catalog key policies and review how net, gross, or other indicators were used in establishing goals. This task will get to the heart of net savings and address whether goals should be set using net or gross savings.
- *Future Option - Task 4:* In 2012, this task may address developing net savings guidelines. There will be a notice in the RFP that this could be the next step for this project. The RFP will not ask for bids on Task 4 at this time.

Elizabeth Titus provided a high level overview of the work that is being done in Massachusetts. In 2003, the Massachusetts program administrators jointly developed a standardized methodology to quantify net-to-gross for their C&I programs. They are now revisiting this work with the goal of developing an updated standardized method for situations where end-users provide self-reported information. There is a C&I portion and a residential portion of this study. For each sector, they are reviewing and assessing secondary sources, developing and testing methodology, and proposing a final methodology. The C&I program study is complete; the residential programs report will be complete in June. The Massachusetts work is valuable for the region because it is timely, the types of programs in Massachusetts are similar to those throughout the region, and it provides a good platform for discussion.

Elizabeth Titus explained that the next steps for this project are to develop the RFP and distribute it in June. The goal is to host the first webinar in late July or early August.

Cindy Jacobs (CT DPUC) asked if the Massachusetts C&I report is posted. Elizabeth Titus replied that it is posted on the project subcommittee site, and it will be posted to the private site for this quarterly meeting so that it is available to all Forum participants.

Ralph Prah added that the Massachusetts residential study should be ready in about a week, and he will provide it to NEEP for posting at that time. He stated that Massachusetts is consistently behind this project.

Julie Michals reminded participants that NEEP will seek approval from a designated person in each state to approve the RFP before it is issued.

Action Item:

5. NEEP to post the Massachusetts study: "Cross-Cutting Free-Ridership and Spillover Methodology Study" by Tetra Tech, KEMA, and NMR Group for MA Program Administrators to the Project Committees private website with the other materials for this meeting, and will post the residential Massachusetts study when it is available in June.

F. Emerging Technologies/Program Designs

Julie Michals introduced the Emerging Technologies project and explained that NEEP has distributed the draft RFP for review by all Forum participants. Chris Neme (Energy Futures Group) is serving as a technical advisor on this project. The SOW includes five key components:

- 1) Develop savings assumptions or algorithms for priority set of emerging technologies, where data exists;
- 2) Identify weaknesses or gaps in existing data;
- 3) Recommend EM&V methods to address weaknesses/gaps in data to enable future development of deemed savings/algorithms;
- 4) Recommend EM&V methods to estimate savings from priority systems-oriented programs; and
- 5) Collect and analyze primary data for 1-2 priority measures, consistent with recommendations from outcomes above

The project subcommittee identified priority measures using the following criteria: magnitude of savings; if it is offered now or will be offered in the next two years; ENERGY STAR designation; demand reduction potential; and if the measure is specific enough for the contractor to understand.

The priority measures are: solid state lighting/LEDs (broken up by fixtures & screw-ins, and commercial & residential), heat pump water heaters, ductless mini-split air conditioners, ductless mini-split heat pumps, set top boxes, advanced/smart power strips, commercial/industrial commissioning, and biomass pellet boilers. The priority program approaches are: whole house (single family) retrofits, multi-family whole building retrofits, and commercial lighting design.

Mike Voltz (LIPA) stated that LIPA is looking at nearly all of these measures. For ductless mini-splits, LIPA has found that nearly all are heat pumps, not many installed are air conditioners. The contractor for this project may be able to merge those two measures.

Nikola Janjic (Efficiency Vermont/VEIC) asked if the secondary priority measures discussed in the project subcommittee meeting will be included in the RFP. Julie Michals replied that the measure list presented today is the measure list that will be included in the RFP.

Cindy Jacobs stated that pilots in Connecticut with heat pumps for water heaters that were done several years ago encountered reliability problems. Elizabeth Titus replied that the earlier generation of heat pump water heaters had different manufacturers. The group of manufacturers has changed, which should produce a more reliable product.

Julie Michals reviewed the project schedule, with an anticipated RFP release date of June 10 and contract start date of July 29. The project budget of \$225,000 will be included in the RFP. The RFP will also include language that the budget is expected to cover secondary research and analysis, and the balance of budget should be devoted to the primary research.

Julie Michals asked participants to contact her if they are not on the project subcommittee but would like to be and to send her any further comments on the draft RFP by Tuesday, May 31.

Action Item:

6. Forum participants to send comments on the draft *Emerging Technologies* project RFP to Julie Michals (jmichals@neep.org) by Tuesday, May 31.

G. Short Briefs on Other Forum Projects: Status/Schedules

Regional EE Reporting Tool and Database

Julie Michals provided an overview of the regional energy efficiency reporting tool and database project. The goal is to complete the project by year-end for states to report their 2011 program impacts in 2012. She explained that the RFP has not been issued yet because the project subcommittee provided feedback that the RFP needs to be more specific about design of tool. She has worked with subcommittee members and technical advisors to refine the RFP. As the \$85,000 budget is low for the project scope, the database will be presented in a simple spreadsheet format. She notified state representatives (in particular State Energy Office and Public Utility Commission staff) that she will be reaching out to them in the next 10 days to make sure NEEP knows who the point person is for this project for each state.

Pam Stonier asked if the data will be coming from sources other than the program administrators. Julie Michals replied that data will not be collected from the program administrators unless there is only one program administrator in that state. The goal is to get the statewide data. For example, the Massachusetts DOER will provide a statewide report for all of Massachusetts.

Julie Michals stated that the draft RFP will go out for Forum review on May 31 and she would like comments by June 6-7 so that the RFP can be issued by June 8. She will also hold a project subcommittee call on June 6 to obtain comments on the draft RFP.

Nearly Completed Forum Projects

Elizabeth Titus explained that several projects will be completed in June: Commercial Lighting Measure Persistence, Incremental Cost Study, Loadshape Studies, and the Mid-Atlantic Technical Reference Manual, Version 2.

Elizabeth Titus asked if it is helpful to have a high-level review of final reports in quarterly meetings. Ralph Prahli replied that it may be hard for people to absorb the information if they have not been involved in the project.

Cindy Jacobs stated that would be helpful for state regulators to see the results from the studies in the quarterly meetings. Elizabeth Titus suggested that the project overviews be scheduled at the end of the quarterly meetings for those who are interested.

Codes and Standards

Elizabeth Titus explained that NEEP held a Codes and Standards workshop in September 2010, at which NEEP was urged to keep the momentum going on this topic, but to do it without funding from Forum funders. NEEP is currently in discussions with US DOE about funding a \$150,000 project, and has also brought the Institute for Market Transformation into those discussions. Forum participants who want more information about the draft SOW or conversations with DOE should contact Elizabeth Titus.

NAESB Overview

Julie Michals explained that NAESB is developing wholesale energy efficiency M&V standards and retail energy efficiency M&V model business practices. For wholesale, Elizabeth Titus worked with Forum participants to try to change proposed language with respect to an equipment specification pertaining to proxy variable measurement accuracy. This effort failed, and in the process it became clear that representatives on the NAESB Executive Committee are not that familiar with energy efficiency. NEEP also learned that NARUC members can be members of NAESB.

Pam Stonier stated that she has become a member of NAESB. She added that the General Counsel at NARUC has asked her to bring him up to speed on the NEEP work and help him understand efficiency.

Julie Michals explained that the retail NAESB working group has struggled with the scope of the document. At a May 4 NAESB Executive Committee meeting there was agreement that the working group would proceed to develop high level standards and coordinate with SEE Action. NAESB is reaching out to US DOE and NARUC, as they recognize that their work is overlapping. NEEP is trying to encourage coordination between these entities. Julie Michals has been asked to co-chair the NAESB retail group to move the effort forward.

SEE Action Overview

Julie Michals explained that SEE Action is exploring developing EM&V voluntary protocols. LBNL has produced a scoping study that explores the development of a voluntary national EM&V standard for energy efficiency activities. Forum participants were asked to review this study at: <http://eetd.lbl.gov/ea/ems/reports/lbnl-4265e.pdf> and provide any comments.

Julie Michals shared that SEE Action is also exploring developing a national savings database. Cadmus completed a scoping study to address the feasibility of such a database. They determined that there is strong interest in developing an EM&V document database but concerns about developing a national savings and algorithm database, as it would be difficult and impractical. Forum participants were asked to share any thoughts about the development of a national savings database.

Upcoming Meetings

Julie Michals shared that the next quarterly Project Committees meetings are scheduled for July 28 and November 17. The next quarterly Steering Committee meetings will be held on July 14, September 22, and December 8.

Elizabeth Titus encouraged Forum participants to attend the Residential Lighting workshop on June 7, and the NEEP Summit on June 8 in Warwick, RI.

Action Items:

7. For the *Regional Statewide EE Reporting Tool and Database* project:
 - a. NEEP to reach out to representatives from each state in the next 10 days to identify the appropriate point person for the project.
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8. Forum participants who want more information about the draft SOW or conversations with US DOE pertaining to the *Codes and Standards* project to contact Elizabeth Titus.
9. Forum participants are encouraged to attend NEEP's Residential Lighting workshop on June 7 and annual Summit on June 8 in Warwick, RI.
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