

Memo

To: **EEAC**
From: **Eric Belliveau and the EEAC Consultant Team**
Date: **January 12, 2016**
Subject: **January Monthly Report**

The Consultant Team is pleased to provide this update to the Council on our recent activities.

SUMMARY OF MAIN TASKS COVERED IN EACH SECTION OF THE REPORT

EM&V

- Advancing ~ 40 new studies to the implementation stage and advancing ~15 studies currently in the implementation
- Processing several draft final EM&V reports
- Developing a presentation for the Council on the results of the 2013 Residential Customer Profile study
- Assisting with comments on draft EM&V guidance released by the EPA in support of the Clean Power Plan
- Providing input on a presentation related to trends in energy and efficiency and a presentation on improvements to the quarterly reports

PLANNING & ANALYSIS

- Preparing for, attending, and providing technical support for the EEAC and ExCom meetings
- Developing content for the January 20 presentation on trends in electric energy and energy efficiency
- Assisting with the development and coordination of potential topics and themes for future EEAC meetings
- Providing early technical support for the development of the Demand Savings Group and a potential Council Subcommittee on Demand Reduction
- Developing a summary of the content and format of the quarterly reports
- Reviewing and commenting on the draft AESC supplemental study on “super peak” energy costing periods
- Reviewing the DPU Order on the 2016-2018 Plan
- Continuing to work with the PAs to resolve outstanding issues on the TRM

RESIDENTIAL AND LOW INCOME

- Developing content for the January 20 presentation on trends in electric energy and energy efficiency
- Reviewing the DPU Order on the 2016-2018 Plan and identifying residential implementation implications
- Discussing the Residential Customer Profile Study with the Residential Management Committee
- Providing comments to the EM&V Advisory Group on ductless minisplit heat pumps and HES audit optimization studies

COMMERCIAL AND INDUSTRIAL

- Developing content for the January 20 presentation on trends in electric energy and energy efficiency
- Reviewed program data from National Grid’s Pay for Performance and Leidos Industrial initiatives and the Accelerated Rebate Pilot
- Reviewing the C&I Customer Profile study
- Providing feedback and made suggestions for improvements to the PA quarterly reports
- Discussing the C&I Consultant Team work plan with the PAs at the regular CIMC meeting

TECHNICAL SERVICES

- Continuing regular administrative functions, including EEAC meeting minutes and website maintenance and document uploads
- Editing and revising a draft version of the 2014 Annual Report to the Legislature

EVALUATION, MEASUREMENT & VERIFICATION

In January, the EM&V Advisory Group continued its work with the PAs to advance the roughly 40 new studies laid out in the Strategic Evaluation Plan to the implementation stage. This process is occurring in two waves. The first wave, focusing on those studies viewed as most urgent, began in October 2015 and is now nearing completion, with many new studies either recently entering or close to entering the implementation stage. The second wave began in January, and is expected to last several months.

Oversee EM&V Study Implementation

The Group advanced toward completion roughly 15 studies currently in the implementation stage. Some of these are highly data-intensive studies, with correspondingly long timelines. These studies were begun at least a year ago and are now nearing completion. A few examples include: the C&I On-Site and Market Share study; Minisplit Field Monitoring study; and Residential Single-Family New Construction Baseline and Code Compliance study. The rest of the studies currently in the implementation stage are those from the first wave of new 2016-2018 studies discussed in the planning section above. The number of studies in the implementation stage is expected to increase in the coming months as additional 2016-2018 studies complete the planning stage.

Oversee EM&V Reporting

Working with the PAs, the Group finalized several reports. These include the following: LED Incremental Costs Study; Berkshire Home Energy Report Program Evaluation; and Residential Single-Family Building Department Document Review Study. Several other draft final reports were in progress in January.

Council and Stakeholder Engagement

The Group began work on a presentation for the Council on the results of the 2013 Residential Customer Profile study. The presentation is scheduled for the Council's February 17 meeting.

EM&V Policy Issues

The Group assisted DOER in providing comments on draft EM&V guidance released by the EPA in support of the Clean Power Plan (CPP). The Group also participated in the development of two team-wide initiatives, a Council presentation on key trends in energy efficiency and a set of recommendations for improvements to the quarterly reports produced by the PAs. Lastly, the Group began working with the PAs on developing an approach to EM&V activities in support of new Demand Response pilots and programs.

PLANNING AND ANALYSIS

In January 2016, the Planning and Analysis (P&A) Advisory Group focused on the primary tasks described below to assist the Council.

Participate in EEAC Meetings; Brief and Support the Council

The P&A Advisory Group prepared for, attended, and provided technical support during the meetings of the EEAC and ExCom during the month. The Group coordinated with DOER as chair of the Council on a weekly basis, and briefed individual Councilors in advance of the EEAC meeting and during the month. The substantive issues and outcomes are summarized in the task descriptions below. EEAC Meeting and Council support is on-going and is a regular monthly task area.

The P&A Advisory Group assisted with the development and coordination of potential topics and themes for future EEAC meetings in 2016. As part of this effort, the Consultants worked with DOER to revise and update an initial list of potential substantive topics to be presented and discussed at Council meetings in 2016.

Support the Council on Regulatory Issues and DPU Proceedings

The P&A Advisory Group completed an initial review of the DPU Order on the 2016-2018 Plan (received January 28th) and began to compile highlights for a summary presentation to the Council in February.

Provide Technical Analysis and Review/Assess Reports

The P&A Advisory Group developed a summary of the content and format of the quarterly reports plus some of the key changes that were requested and implemented in prior years. This information was compiled as background for Council consideration of potential changes to the quarterly reports going forward (to be presented during the February EEAC meeting).

The P&A Advisory Group reviewed the draft AESC supplemental study on “super peak” energy costing periods, provided comments to the AESC study group, and participated in the study group review conference call and process. The P&A Group also drafted a memo to the study group on better terminology for demand and “super peak” periods.

The Group also coordinated with the EM&V Group and the PAs on the review of the 2016-2018 Plan-version of the Technical Reference Manual (TRM).

Planning and Analysis Support for Implementation of the 2016-2018 Plan

The P&A Advisory Group provided the Council with information and analysis to explore and advance future opportunities for energy efficiency and demand reduction programs through the implementation of the 2016-2018 Plan. The Group assessed and reviewed potential changes in the EE marketplace, program development, delivery, and evaluation as an early and ongoing activity in 2016.

In January, the P&A Advisory Group developed information about and presented to the Council on new trends in the energy industry plus trends in energy efficiency and demand reduction.

The P&A Advisory Group provided early technical support for the development of the Demand Savings Group and a potential new Council Subcommittee on Demand Reduction. The Group coordinated with the PAs on some technical aspects of demand issues to feed into the Demand Savings Group in February. The Group provided this technical assistance on demand reduction per Council priority number five, “Identify opportunities for the Council to advance a grid that supports distributed resource investment, active demand response, and planning in a manner that decreases costs, increases resilience and reliability, supports innovation, and improves both the environment and the economy.”

RESIDENTIAL AND LOW INCOME SECTORS

Technical Support for Programs and Effective Practices

The Group provided support for the Consultant Team’s “Trends in Electric Energy and Energy Efficiency” presentation to the Council at the January 20 meeting by providing content. Our primary focus was on developing content on lighting and performance-based approaches including pay for performance. The Group also reviewed massavedata.com to determine areas of available information and information gaps remaining to be filled. The Group conducted an initial review of the DPU Order approving the 2016-18 Plans, noting aspects with particular implications for residential program implementation. Those will be provided for the February 17 Council meeting.

The Group reviewed the final revised ENERGY STAR lamp specification and preliminarily summarized expected market and program impacts to support updates for the Council and planned discussions with the PAs. The Group also participated in discussions with the PAs on the Lighting Market Adoption Model, which provides supports both EM&V and implementation efforts.

Participate in RMC and Council Meetings

Residential Advisory Group members and Bob Wirtshafter from the EM&V Advisory Group attended the January 13 Residential Management Committee meeting to discuss the Residential Customer Profile Study. The study is

an ongoing effort to collect, compile, analyze, and report upon the effects of the PAs' energy efficiency programs in Massachusetts. The study was launched in 2014, and its objective is to provide stakeholders and other interested parties with a greater understanding of the performance of the combined residential sector programs. The Consultants and PAs exchanged their perspectives on the research, findings and potential uses of the data, as well as limitations and needed improvements for continuation of the research in future years. This study will be the subject of presentations by both the Consultants and the PAs at the February 17 Council meeting.

Coordinate with EM&V Efforts and Incorporate Feedback from EM&V Studies into the Programs

Please see, the "Participate in RMC and Council Meetings" section of this report above. In addition, the Group reviewed and provided comments to the EM&V Group on a memorandum summarizing the draft ductless mini-split heat pump cooling season research results and on a revised research proposal for the HES Audit Optimization study.

COMMERCIAL AND INDUSTRIAL

Technical Support for Programs and Effective Practices

In January, the C&I Advisory Group reviewed program data from National Grid's Pay for Performance and Leidos Industrial initiatives and the Accelerated Rebate Pilot. The Group also reviewed the DPU findings and participated in Consultant Team calls.

Technical Support for New Technologies and Innovation

The Group investigated a small business approach in Vermont that is aiming for high energy reductions. Additional work included providing information on biogas activities in Massachusetts to a Councilor and revising a memo on improving energy productivity by adopting Strategic Energy Management practices in Massachusetts. This memo will be completed in February.

Reporting Updates and Best Practices

The Group reviewed the C&I Customer Profile and provided feedback and made suggestions for improvements to the PA quarterly reports.

Participate in CIMC and Council Meetings

The Group created and delivered a presentation to the Council on trends that may impact energy efficiency. The intent was to highlight trends that may result in opportunities or risks and to begin the conversation about how to plan for these trends. The Consultant Team is preparing a follow on memo based on this presentation.

The Group discussed the C&I Consultant Team work plan with the PAs at the regular CIMC meeting. The call-in CIMC was limited to PAs only.

Incorporate Feedback from EM&V and Studies into the Programs

The Group worked on finalizing a memo that discusses documentation of custom projects and determination of the proper baseline. This is important because the PAs have a good realization rate for custom projects overall, but the variance between gross and net savings for specific projects can vary by 100%. Reducing the amount of variance between claimed and net savings should help increase overall net savings, and will reduce the difference between promised savings and actual savings for customers. This memo will be available in February.

TECHNICAL SERVICES

Produce Minutes from all EEAC Meetings

The Consultant Team is charged with producing draft and final meeting minutes for each EEAC monthly meeting. The Team produced draft minutes for the January 20 EEAC meeting and forwarded them to the EEAC Chair. The EEAC approved December 16, 2015 meeting minutes at their January meeting. These minutes along with all

documents and presentations distributed at the January meeting have been posted on the EEAC website.

EEAC Website Upgrades, Revisions & Maintenance

Consultant Team staff continue to manage the updated website on a day-to-day basis. In January, this included posting materials for the January 20 EEAC meetings and other meetings that occurred during the month.

For the month of January 2016 there were:

- 1,373 sessions
- 830 users: 47.4% new visitors and 52.6% returning visitors
- 3,768 page views with an average of 2.7 page views per session

Produce the Annual Report to the DPU and Legislature

In January, a draft of the 2014 Annual Report continued through the revision and approval process. A draft of the design layout was completed.