

Memo

To: **EEAC**
From: **Eric Belliveau and the EEAC Consultant Team**
Date: **December 11, 2015**
Subject: **November 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 stage to completion
- Processing several draft final EM&V reports
- Assisting the PAs with responding to EM&V-related interrogatory requests in connection with the Three-Year Plan hearings.
- Reviewing and commenting on two EM&V Forum reports on EM&V policy issues

PLANNING & ANALYSIS

- Preparing for, attending, and providing technical support for the EEAC and ExCom meetings
- Supporting the development of draft Council priorities for 2016 and the development and coordination of potential topics and themes for future EEAC meetings
- Reviewing and confirming key sections and data in the final 2016-2018 Three-Year Plan as well as reviewing the final penetration and potential studies conducted by the PAs
- Reviewing the 2014 Q3 quarterly report and year-end 2014 forecast
- Coordinating the review of the Plan-version TRM

RESIDENTIAL AND LOW INCOME

- Reviewing and analyzing residential content of the TRM
- Reviewing and commenting on evaluation plans for HES audit optimization, condensing equipment, and Wi-Fi thermostats and behavior.
- Preparing preliminary scopes of work for research on innovative program approaches as part of 2016 work planning
- Tracking revision of the ENERGY STAR lamp specification

COMMERCIAL AND INDUSTRIAL

- Reviewing and analyzing C&I content of the TRM
- Reviewing the October filed version of the Three Year Plan at the request for specific data from the Council
- Researching content for and writing memos on improving energy productivity, the establishment and documentation of project baselines, as well as two memos on innovation: training and upstream programs.
- Reviewing the 2014 C&I Customer profile report

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

Oversee EM&V Planning

With the completion and filing of the 2016-2018 Strategic Evaluation Plan (SEP), the attention of the EM&V Advisory Group and the PAs has now turned to advancing the roughly 40 new studies laid out in the SEP to the implementation stage. This process is occurring in two waves. The first wave, focusing on those studies viewed as most urgent, began before the final SEP was submitted, and will continue for the remainder of 2015. The second wave is expected to begin in January 2016.

Oversee EM&V Study Implementation

The Group advanced toward completion roughly 15 studies currently in the implementation stage. A few examples include the following studies: C&I On-Site and Market Share; Minisplit Field Monitoring; 2014 C&I Customer Profile study; and Residential Single-Family New Construction Baseline and Code Compliance study. In addition, several of the new studies in the first planning wave discussed in the preceding paragraph reached the implementation stage in November.

Oversee EM&V Reporting

Working with the PAs, the Group processed the following draft final EM&V reports: Non-Residential New Construction Non-Energy Benefits study; several interim reports associated with the CCSI initiative; the 2014 C&I Customer Profile study; and the LED Incremental Costs study.

EM&V Policy Issues

The Group assisted the PAs in responding to EM&V-related interrogatory requests in connection with the Three-Year Plan hearings. The Group also reviewed and commented on two EM&V Forum reports on EM&V policy issues (one on net savings issues and one on changes in the EM&V paradigm).

PLANNING AND ANALYSIS

In November 2015, the Planning and Analysis (P&A) Advisory Group focused on the primary tasks described below to assist the Council. The Group's primary tasks were the review and confirmation of key sections and key data in the final 2016-2018 Three-Year Plan, support for the development of draft Council priorities for 2016, development and coordination of potential topics and themes for future EEAC meetings, and review of the 2014 Q3 quarterly report and year-end forecast.

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 for December and in 2016. As part of this effort, the Consultants developed an initial list of potential substantive topics to be presented and discussed at Council meetings in early 2016.

The Group also supported the development, review, and revision of the Council's proposed priorities for 2016. To inform the development process, the Group reviewed and summarized the priority-setting processes used by the Council in recent years.

Provide Technical Analysis

The P&A Advisory Group reviewed the 2014 Q3 quarterly report and year-end 2014 forecast, including commenting on the PA slides presented at the November EEAC meeting.

The Group also coordinated with the EM&V, C&I, and Residential Advisory Groups on a follow-up review of the 2016-2018 Plan-version of the Technical Reference Manual (TRM).

Input and Analysis for the 2016-2018 Three-Year Plan

In November, the P&A Advisory Group reviewed key sections and key data in the final 2016-2018 Three-Year Plan, primarily for final review and confirmation purposes. As part of this review, the Group suggested several issues that might be raised during the DPU proceeding on the Plan.

The P&A Advisory Group also reviewed the final PA penetration and potential studies, and compared final PA reports and findings in the Plan to prior Consultant comments and memos (which were based on Consultant review of earlier drafts).

RESIDENTIAL AND LOW INCOME SECTORS

Input and Recommendations for the 2016-2018 Plan

In November, the Group continued its review and analysis of the residential content of the TRM. A draft of the TRM was provided at the end of the three-year planning process, which did not allow for a full review prior to the Council's vote on the resolution in October. The resolution reserved the right of the Council to continue its review of the TRM. The Residential Advisory Group identified a small number of differences with the PAs regarding proper net-to-gross values for several measures and a list of items that merit reassessment as additional information becomes available. These issues are described in a memorandum provided to DOER in December. The Group also compiled its preliminary input on the 2016-18 planning process to support Council discussion at the December meeting.

Home Energy Services

The Group reviewed and provided comments on the draft HES Audit Optimization Stage 3 evaluation plan. The Group noted several concerns about the scope of the study and discussed those with the EM&V Group to ensure they are fully understood and brought forward to the PAs and evaluation contractors. The evaluation plan is being revised, and the Group will continue to participate in reviews and discussions, including with the Residential Management Committee as appropriate.

Multi-Family Retrofit

As part of 2016 work planning efforts, the Group prepared a preliminary scope of work for research on performance based approaches, including pay for performance, for the Multi-family Retrofit and HES Initiatives. This work was discussed preliminarily with DOER staff, and the Group also plans to discuss it with the RMC. We anticipate a completion date in Q1 2016.

Residential Products

The Group tracked progress of proposed changes to the ENERGY STAR lamp specification, including reviewing the PAs' comments to ENERGY STAR on the revised specification and participating in an EPA webinar on the proposed changes. In its current form, the revised specification includes higher efficacy requirements for omnidirectional lamps and a shorter lifetime requirement for qualification. If adopted as proposed, there is a good probability ENERGY STAR omnidirectional CFLs will not be available for PA program support in 2017. The Group will continue to monitor developments and plans to discuss the implications with the RMC in coming months. The Group also reviewed and provided comments to the EM&V Group on the Condensing Equipment Stage 3 evaluation plan.

Innovation

In addition to the research on innovative performance-based approaches noted above, the Group prepared preliminary scopes of work for research on connected devices, developing an all-electric, carbon neutral net zero Offering for residential new construction, and incorporating quality management system principles into the QA/QC process for HES. These will be refined as part of the work planning process with the Council and PAs. The Group

also reviewed and provided comments to the EM&V Group on the Stage 3 Combined Wi-Fi Thermostat and Behavior Programs evaluation plan. It also reviewed a funding opportunity announcement from the U.S. Department of Energy, provided a brief summary of its applicability to Massachusetts work to DOER and discussed the same with DOER staff.

COMMERCIAL AND INDUSTRIAL

Input and Analysis for the 2016-2018 Three-Year Plan

This task still accounted for most of the C&I focus in November. Activities included review of the C&I TRM measures, and final follow up on Wave 3 of the National Grid potential study. The Consultants also provided breakout data about C&I savings and costs to the Council and summarized C&I BCR ratios for key driver measures.

Approaches for Increasing Energy Productivity

The C&I Advisory Group sent out a draft of the Improving Energy Productivity memo to the PAs and DOER for review. It will be finalized in December.

Incorporate Feedback from EM&V into the Programs

The Group began work on a memo to address issues in determining the proper baseline. The baseline is important to establish and document in order to realize maximum savings during evaluation. The memo will be finalized in December.

Innovation

The Group continued work on two memos for the Council that review current training practices in Massachusetts, and upstream best practices. These memos will be finalized in December. The Consultants also researched, at the Council's request, a potential new measure/approach to use hydrogen reformed on-site to power forklifts.

Comprehensive Segment Strategies

The C&I Group participated in CIMC meetings and calls. The Group provided feedback to the PAs on Eversource's proposed training and National Grid's grocery initiatives. The Group also reviewed and analyzed industrial process and compressed air savings.

Additional Cross Cutting Approaches

The Group researched pending codes that will impact the C&I linear fluorescent lighting market, downloaded and reviewed the 2014 C&I Customer Profile study, participated in Consultant Team calls, and discussed Strategic Energy Management with DOER and NEEP.

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 November 18 EEAC meeting and forwarded them to the EEAC Chair. The EEAC approved October 16, 21, and 26 meeting minutes at their November meeting. These minutes along with all documents and presentations distributed at the October meetings 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 November, this included posting materials for the November 18 EEAC meetings and other meetings that occurred during the month.

For the month of November 2015 there were:

- 1,965 sessions
- 1,110 unique users: 44.1% new visitors and 55.9% returning visitors
- 4,809 page views with an average of 2.4 page views per session

Produce the Annual Report to the DPU and Legislature

In November, a draft of the 2014 Annual Report continued through the revision and approval process. The Team identified inconsistencies in data reported in the 2014 Plan Year report and on MassSavedata.com and worked to resolve those differences. The Consultant Team expects to finalize the report in late December.