

Memo

To: **EEAC**
From: **Eric Belliveau and the EEAC Consultant Team**
Date: **May 20, 2016**
Subject: **April 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 ~ 30 new studies to the implementation stage and processing several final EM&V reports in various stages of completion
- Working with the PAs to develop the EM&V components for the upcoming term year report
- Developing an EM&V presentation and informal discussion scheduled for the May Council meeting
- Helping to lay the groundwork for a May strategic planning session between DOER and the EEAC Consultants

PLANNING & ANALYSIS

- Preparing for, attending, and providing technical support for the EEAC and ExCom meetings
- Reviewing and following up on the PA-developed Demand Savings Group final report, and providing technical support on demand issues
- Identifying and developing background on future strategic issues (strategic planning)
- Assisting with the development of presentations for the April EEAC meeting on innovations, using data to minimize costs, and pay for performance strategies

RESIDENTIAL AND LOW INCOME

- Researching and developing content for the Consultant Team's innovations presentation to the Council
- Working with the Residential Management Committee to develop performance indicators for the renter initiative
- Conducting analysis and discussions regarding the future of lighting energy efficiency programs
- Providing input on a variety of EM&V processes and draft work products

COMMERCIAL AND INDUSTRIAL

- Researching and preparing a presentation for the Council on pay for performance programs
- Researching and writing a memo on the C&I lighting market to determine the impacts of changing codes and standards
- Identifying potential risks to the C&I programs and brainstorming solutions in order to prepare for a strategic planning session with DOER
- Providing feedback on EM&V work plans and reports
- Participating in CIMC meetings

TECHNICAL SERVICES

- Continuing regular administrative functions, including EEAC meeting minutes and website maintenance and document uploads
- Beginning work on the 2013-2015 Report to the Legislature

EVALUATION, MEASUREMENT & VERIFICATION

Oversee EM&V Planning

In late April, the EM&V Advisory Group began working with the PAs and the recently selected Residential Demand Response EM&V contractor team (see Miscellaneous Activities section below) to begin planning the evaluation of Demand Response pilots at National Grid and Cape Light Compact. The Group also continued working with the PAs to advance the new studies laid out in the 2016-2018 Strategic Evaluation Plan (SEP) to the implementation stage. This process is now nearly complete, with the majority of studies discussed in the SEP having either reached the implementation stage or nearing it. At the same time, the PAs and the Group have begun planning several additional studies beyond those specifically called out in the SEP.

Oversee EM&V Study Implementation

The Group advanced toward completion roughly 30 studies currently in the implementation stage. The bulk of these are studies called out in the SEP. A handful of the studies are highly data-intensive studies, with correspondingly long timelines, which were started at least a year ago and are now nearing completion. Two examples of the latter category are the Minisplit Field Monitoring study and the Residential Single-Family New Construction Baseline and Code Compliance study.

Oversee EM&V Reporting

Working with the PAs, the Group processed a number of final EM&V reports in various stages of completion. A particular area of emphasis has been the draft final report on the C&I On-Site study, which has been one of the most ambitious EM&V studies ever undertaken in Massachusetts. Another highlight is the final report on a new Low-Income Non-Energy Impacts study, which appears likely to lead to substantial increases in the household Non-Energy Impacts being credited to low-income programs.

The Group also began working with the PAs on development of the EM&V components for the upcoming term year report, including resolving a few lingering issues regarding retrospective application of impact evaluation results.

Council and Stakeholder Engagement

The Group began work on an overall EM&V presentation and informal discussion scheduled for the May Council meeting.

The PAs and the Group also completed work on an expanded format for the Gantt chart and spreadsheet that forms the primary detailed status report on EM&V activities. The most recent version of the updated status report can be found at <http://ma-eeac.org/studies/>. Based on the status report, as of late April, there were 38 EM&V studies in the implementation or reporting stage, and 18 in the planning stage.

Lastly, the Group worked with DOER and the PAs to coordinate DOER involvement in a number of studies of particular interest to the Department. The Group also participated in an all-day stakeholder workshop intended to support the planning of several studies involving HES and/or multifamily programs.

EM&V Policy Issues

The Group helped to lay the groundwork for a strategy session to be held between DOER and the EEAC Consultants in May.

Miscellaneous Activities

Following the release of an RFQ in February, the PAs and the EM&V Advisory Group agreed on the selection of contractor teams to lead the evaluation of demand response (DR) programs for the remainder of 2016 and early 2017. The selected lead contractors are Navigant (residential) and DNV GL (non-residential). Over the longer term, demand response will be called out as a key function in the overall cross-cutting EM&V RFP that is slated for release in late 2016. Depending on contractor response, demand response may then either be included as

part of a broader cross-cutting contract, or made the subject of a freestanding contract.

PLANNING AND ANALYSIS

Participate in EEAC Meetings; Brief and Support the Council

The P&A Advisory Group prepared for, attended, and provided technical support for the EEAC and ExCom meetings 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. Also, the P&A Advisory Group assisted with the development, planning, and coordination of potential topics for future EEAC meetings. EEAC Meeting and Council support is on-going and is a regular monthly task area.

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. In April, the Group assisted with the development of presentations for the April EEAC meeting on program and technology innovations, using data to minimize costs, and pay for performance strategies.

The P&A Advisory Group provided technical support for the Demand Savings Group and analysis of peak demand issues. As part of this work, the Group reviewed and followed up on the PA-developed Demand Savings Group final report that was completed in late March.

The P&A Advisory Group identified and developed background on strategic issues (strategic planning) for future consideration and discussion.

RESIDENTIAL AND LOW INCOME SECTORS

Technical Support for Programs and Effective Practices

The Residential Advisory Group developed content for a Consultant Team presentation on innovations for the April 20 Council meeting. This included two main topics: 1) innovative use of data, highlighting work the Tennessee Valley Authority is doing, and 2) a pay for performance pilot that Pacific Gas & Electric Company developed for their home performance program. The Group also conducted a preliminary analysis of the impacts on residential and low income whole house program cost effectiveness when lighting savings can no longer be claimed. The Group also began assessment of other future planning priorities to support discussions with DOER. The Group reviewed and summarized national, regional and PA-level heat pump criteria and incentive levels and discussed these topics with DOER staff.

Participate in RMC and Council Meetings

In April, the Group continued its work with the Residential Management Committee to develop performance indicators for the new renter initiative. These were discussed at the April 13 RMC meeting, along with the draft presentations for the Council meeting, and will likely be finalized in May. A similar effort will then be pursued for the moderate income customer initiative. The primary topic of discussion for the April 27 RMC meeting was lighting, with a specific focus on near term (2016-2017) implications of the new ENERGY STAR® lamp specification. Discussions regarding the eventual phase-out of claimable lighting savings were noted as a topic for future discussion. And as mentioned above, the Group presented at the April 20 Council meeting.

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

Members of the Residential and EM&V Advisory Groups participated in our monthly coordinating call to exchange updates on work and developments of shared responsibility. The Residential Group worked with the EM&V Group to identify and prioritize discussion topics for a May evaluation workshop on the residential HES and multifamily retrofit initiatives. It also participated in ongoing discussions regarding the lighting Market Adoption Model; provided additional input on a draft Ductless Mini-Split Heat Pump Cooling Season Results memorandum; and commented on drafts of the Low Income Non-Energy Impacts and lighting interactive effects evaluation reports.

COMMERCIAL AND INDUSTRIAL

Technical Support for Programs and Effective Practices

In April, the C&I Advisory Group spent time reviewing pay for performance programs in the C&I sector around the United States. The Group also spent time identifying potential risks to the programs and provided possible solutions to address those risks as part of planning for a strategic planning session in May.

Technical Support for New Technologies and Innovation

The Group continued work on a memo to better understand the C&I lighting market and the potential impact changes in the building code, and from federal standards such as Energy Star and EISA, will have on savings. The Group also reviewed hydrogen powered fuel cell systems for forklifts at the request of a Council member, and discussed this new technology at the CIMC.

Participate in CIMC and Council Meetings

The Group participated in CIMC meetings, contributed input to presentations delivered to the Council, and planned for future CIMC meetings.

Incorporate Feedback from EM&V and Studies into the Programs

The Group reviewed the proposed a work plan for the HVAC Process Evaluation and provided feedback to DNV GL. The Group also started review of Draft 2 of the Onsite Assessment Report.

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 April 20 EEAC meeting and forwarded them to the EEAC Chair. The EEAC approved March 16, 2016 meeting minutes at their April meeting. These minutes along with all documents and presentations distributed at the April 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 April, this included posting materials for the April 20 EEAC meetings and other meetings that occurred during the month.

For the month of April 2016 there were:

- 1,431 sessions
- 858 users: 47% new visitors and 53% returning visitors
- 5,044 page views with an average of 2.5 page views per session

Produce the Annual Report to the DPU and Legislature

In April, the Team established a process and timeline for developing the 2013-2015 Report to the Legislature.