

# Memo

To: **EEAC**  
From: **Eric Belliveau and the EEAC Consultant Team**  
Date: **April 20, 2018**  
Subject: **December-February Consultant Team Summary Report**

The Consultant Team is pleased to provide a summary to the Council of our activities.

This report serves as a summary of key activities, accomplishments, and deliverables completed by the Consultant Team during the December 2017-February 2018 timeframe.

## SUMMARY OF MAIN TASKS COVERED IN EACH SECTION OF THE REPORT

### THREE-YEAR PLANNING

- Preparing briefing documents, recommendations, and presentations for 2 EEAC Stakeholder Planning Workshops
- Coordinating with the PAs on the PA potential studies and reviewing results
- Developing the assessment of potential

### EM&V

- Developing the draft 2019-2021 Strategic Evaluation Plan
- Advancing 70 studies in the implementation stage and advancing roughly 40 studies in the reporting stage
- Beginning work on a presentation on recent EM&V results for the Residential Retrofit area

### PLANNING & ANALYSIS

- Supporting implementation of the next regional avoided cost study
- Working with the PAs to consider and analyze various key indicators for the 2019-2021 Plan term sheet

### RESIDENTIAL AND LOW INCOME

- Preparing and giving a presentation on low income program improvement opportunities for the January 17 EEAC meeting
- Conducting ongoing 2019-2021 planning discussions with the Residential Management Committee
- Reviewing and commenting on draft residential EM&V work products and ongoing coordination with EM&V Advisory Group members

### COMMERCIAL AND INDUSTRIAL

- Providing program oversight and monitoring
- Reviewing evaluation studies, and participating in two days of evaluation meetings specific to C&I and cross-cutting issues

### TECHNICAL SERVICES

- Continuing regular administrative functions, including EEAC meeting minutes and website maintenance and document uploads

## THREE-YEAR PLANNING

This section describes three-year planning activities undertaken by all Advisory Groups to some extent.

### Briefing Documents

The Residential/ Low Income and Planning and Analysis Advisory Groups prepared briefing documents for the final EEAC planning workshops for the 2019-2021 Plan. These included the following:

- December 5: Residential Planning Workshop #3 [Developing an Updated Program Vision: Putting It All Together](#) and [Advancing/Enhancing Existing Low-Income Initiatives, Approaches & Measures](#)
- January 30: Plan Recommendations Workshop [Active Demand Management](#)

The briefing documents included information regarding the status of the PAs' energy efficiency programs in Massachusetts, barriers and opportunities, and draft recommendations for the EEAC's consideration.

The EM&V Advisory and Planning and Analysis Advisory Groups provided input to most briefing documents that were completed during this reporting period.

### Stakeholder Workshops

The Residential/Low Income and Planning and Analysis Advisory Groups prepared and made presentations summarizing the briefing materials for each of the workshops noted in the above section and drafted recommendations for the EEAC to consider. The Council recommendations resulting from these workshops are intended to guide the program administrators in developing the next Three Year Plan.

The EM&V and Planning and Analysis Advisory Groups provided input to most stakeholder workshops that were completed during this reporting period.

### Review of PA Potential Studies

The Planning & Analysis Advisory Group coordinated with the PAs on the PA potential studies, many of which were received in January and February. All Advisory Groups reviewed the available Massachusetts potential studies and began to analyze the results. The Team developed questions and data requests for the PA potential study contractors to fully understand what was included and the assumptions used.

### Assessment of Potential/Goal Suggestion

All Advisory Groups continued work on putting together the assessment of potential including potential study review, trend analysis, and incorporating region and EM&V results.

## EVALUATION, MEASUREMENT & VERIFICATION

### Oversee EM&V Planning

A key EM&V planning activity in this reporting period consisted of working with the PAs to develop the draft 2019-2021 Strategic Evaluation Plan (SEP), which is to be filed as a component of the Draft Three-Year Plan. Development of the draft SEP kicked off in December with a series of EM&V summit meetings from December 6-8. As of this writing the draft SEP was complete and ready to be filed. A final draft will be developed for inclusion in the Final Three-Year Plan to be filed in October.

A secondary EM&V planning activity consisted of moving several newer individual projects through the detailed planning process to the implementation stage.

### Oversee EM&V Study Implementation

As many as 70 studies were in the implementation stage during the course of the reporting period, although this

number dropped markedly toward the end of the reporting period as a large wave of studies was completed. A comprehensive status report on the current status of the Massachusetts EM&V program can be found at <http://ma-eeac.org/studies/>.

### **Oversee EM&V Reporting**

A large number of studies were wrapped up toward the end of this reporting period, reflecting the fact that many had been staged to feed into either the 2017 Plan Year Report or the draft Three-Year Plan. Final reports for roughly 40 studies were either finalized or in progress during this reporting period. Numerous final reports have recently been posted to the Council's website, with examples including: C&I Upstream Lighting impact evaluation; NEI Framework study; C&I Mid-Sized Customer Assessment; Moderate Income study; 2016 C&I Customer Profile study; Residential Lighting Market Assessment study; HES Process Evaluation; Multifamily Program Impact Evaluation; and reports on the evaluations of several NGRID Demand Response demonstrations.

### **EM&V Policy Issues**

Much of the Group's work on EM&V policy issues focused on providing EM&V input and coordination to a number of major policy processes connected to the 2019-2021 Three-Year Plan, as discussed in the Three-Year Planning section of this report. In addition, the Group coordinated with other policy processes such as the Demand Reduction Committee, various working groups associated with the planning of future codes and standards support initiatives; and the Informal Collaborative Discussion group.

### **Council and Stakeholder Engagement**

The EM&V Group engaged with DOER through both monthly overall check-in calls and discussions on issues regarding individual studies. In addition, the Group began work on a presentation on recent EM&V results for the Residential Retrofit area, which is tentatively slated for the May Council meeting.

## **PLANNING AND ANALYSIS**

### **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 coordinated through Executive Committee each 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. 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 was an on-going and regular monthly task area.

### **Provide Technical Analysis**

During the December-February timeframe, the P&A Advisory Group supported implementation of the next regional avoided cost study, the 2018 AESC study (Avoided Energy Supply Component).

The P&A Group also worked with the PAs to consider and analyze the pros and cons of the various key indicators that could be included in the next term sheet for the 2019-2021 Plan. The key indicators should reflect the new realities of the changes in lighting and other program and technology challenges, and will need to work or coordinate with the advent of EVs, heat pumps and other strategic electrification, distributed generation, storage, and active demand management.

## **RESIDENTIAL AND LOW INCOME SECTORS**

### **Technical Support for Programs and Effective Practices**

The bulk of the Group's technical support this quarter was devoted to work in support of the 2019-2021 planning process. This included completing the workshop and recommendations development process and working on the consultants' assessment of residential energy efficiency savings potential. In addition, the Group conducted further assessment of QA/QC practices as a potential future EEAC meeting topic, reviewed the PAs' regular

reporting, participated in the development of the 2017 Lighting Market Adoption Model, responded to various Councilor inquiries, and continued to coordinate with DOER staff.

### **Participate in RMC and Council Meetings**

On January 20, the Group prepared and gave a presentation to the EEAC on [Low Income Program Improvement Opportunities](#) as a follow-up to the December 5 workshop discussion of low income issues. The Group also provided input to LEAN on topics for its presentation at the same meeting and reviewed and commented on drafts.

The Group met with the Residential Management Committee four times during this quarter. On December 13 and at an additional meeting with LEAN, the Consultants, DOER and RMC discussed the moderate income demonstration designed by the PAs and LEAN and presented at the December 20 EEAC. At the January 10 RMC meeting, the Consultants and RMC discussed preparations to date on the forthcoming EEAC meeting on January 17 with a low income topic focus and the January 30 EEAC planning workshop. On January 24, the Consultants and PAs discussed residential active demand management and fuel switching as part of 2019-2021 planning discussions. Those planning discussions continued at the February 14 RMC meeting, at which the Consultants and PAs discussed integration of HVAC with whole house efforts, increasing services for hard-to-reach and underserved customers, and the status of the PAs' assessment of a program model and IT platform similar to that of the Tennessee Valley Authority.

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

The Group continued its monthly coordinating calls with the EM&V Advisory Group to exchange information and discuss priority evaluation issues and implications for implementation. The Group also prepared for and participated in the residential evaluation summit in early December in support of the EM&V strategic evaluation plan. In addition, the Group reviewed and provided comments on drafts of several in-progress residential evaluation outputs, including those related to boilers, the Residential Baseline Study and load profiles, moderate income market characterization, HEAT Loans, the HES process evaluation, residential products, and HVAC incremental costs.

## **COMMERCIAL AND INDUSTRIAL SECTOR**

### **Technical Support for Programs and Effective Practices**

The C&I Advisory Group's primary focus this quarter was analyzing and synthesizing results of the energy potential studies to develop a statewide assessment of potential. The Consultants also continued to monitor program progress towards goals which included looking into upstream lighting performance, progress toward launching a strategic energy management initiative, streetlight upgrades, combined heat and power projects, and general program performance. In addition, the Consultants have been tracking the progress towards issuing a RFP for Strategic Energy Management services in order to launch a SEM cohort demonstration

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

The C&I Advisory Group spent the majority of the time in this reporting period on a number of planning and evaluation activities. One of the greatest challenges facing efficiency programs is the dramatic change in lighting that is happening due to the continued improvement in LED technologies, pricing and capability. The Consultants have been discussing what the future holds for lighting with evaluators and program managers in other jurisdictions, as well as doing research, in preparation for the next Three-Year Plan. The Consultants discussed the potential impact of the EISA backstop regulations on program savings with the PAs, and how to mitigate this impact.

The Consultants spend time in December reviewing evaluations studies, and participating in two days of evaluation meetings specific to C&I and cross-cutting issues. Key issues discussed included dual baselines, baselines for building energy management systems, and a new metric that would report all savings in MMBtus.

## **Participate in CIMC and Council Meetings**

In addition to participation in CIMC meetings and calls, the C&I consultants focused on the Council meeting March that has a C&I focus.

## **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, December, and January EEAC meetings and forwarded them to the EEAC Chair. These minutes along with all documents and presentations distributed at the December-February 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 December-February this included posting materials for EEAC meetings and other meetings that occurred during the month.

For the December-February time period, there were:

- 4,098 sessions
- 1,871 users: 28% new visitors and 72% returning visitors
- 11,082 page views with an average of 2.7 page views per session

### **Consultant Team Quarterly Reports**

In January, the Consultant Team produced a report of its activities from September 1, 2017 to November 30, 2017.