

Memo



→ CONSULTANT TEAM

To: **Energy Efficiency Advisory Council**
From: **Eric Belliveau and the Consultant Team**
Date: **August 13, 2021**
Subject: **EEAC Consultant Team 2021 Second Quarter Report**

SUMMARY

This document summarizes the work completed by the EEAC Consultant Team during the second quarter of 2021. In each section below, the Consultants provide details on the status of key work areas undertaken during Q2. As in the past, our report is organized by advisory groups, representing the major areas of effort across the entire range of Consultant responsibilities and portfolio of Program Administrator (PA) programs. Within each advisory group section of the report, we describe specific tasks the Consultant Team completed in Q2 that did not have a distinct deliverable associated. In Q2, the Consultant Team spent a significant amount of time working on tasks related to the 2022-2024 Three-Year Planning process. Because this process involves all Advisory Groups of the EEAC Consultant Team, we've included a specific Three-Year Planning section to this report. We also provide a table at the end of the document that lists the known deliverables the Team produced over the quarter.

THREE-YEAR PLANNING

The table below summarizes the three-year planning process activities and deliverables that occurred in Q2 of 2021. All advisory groups were involved in these efforts to some extent. Many of these tasks will be on-going in Q3. The majority of our three-year planning work in Q2 was focused on reviewing the April draft of the 2022-2024 Plan, participating in the Key Drivers process.

Time Period	Activity/Milestone	Task	Information Needed	Status
April	Assessment of Potential	Finalize assessment of potential for active demand management	PA Potential Study detailed methodologies	Complete. Presented at the April EEAC meeting
May	April Draft 2019-2021 Plan	Initial review of the PA draft Plan between April filing and May EEAC meeting	Draft plan and associated data including BCR models	Complete. Presented on initial takeaways at the May EEAC meeting.
May-June	April Draft 2019-2021 Plan	Assist the Council in the review of the draft Plan. Assess aspects of draft Plan in detail including goals, budgets, cost-effectiveness, etc.	Draft plan and associated data including BCR models	Complete. Briefed Councilors on specific areas of interest prior to June Council meeting and presented planning update at June Council meeting.
	Key Drivers Process	Work with the PAs to review specific topics related to the three-year plan to arrive at consensus around assumptions where possible	Data from PAs as requested to more fully understand assumptions in 2022-2024 Plan	On-going. The Consultant Team identified key drivers for the C&I and Income Eligible sectors as well as Active Demand. The Consultant Team and PAs met twice with the PAs on each key driver area. Some data was provided by the PAs. Outstanding requests include: Detailed CHP planning assumptions and interconnection pipeline and several IES requests related to space heating, water heating, and lighting assumptions.
On-going Q2	Strategic planning	Work with DOER, AGO, and PAs to schedule and participate in meetings related to high priority topics identified as areas of focus for the next Three-Year Plan		On-going.

PLANNING & ANALYSIS

In Q2, the Planning and Analysis Advisory Group focused much of its efforts on supporting the 2022-2024 planning process. This included working with the PAs and DOER on strategic planning topics, participating in strategic planning discussions and key drivers work groups, reviewing active demand potential, and reviewing and assessing the April Draft Plan. Other areas of focus included reviewing Mid-Term Modification (MTM) requests and reviewing sensitivities and climate policy analysis as part of the Avoided Energy Supply Cost (AESC) Study process. These tasks are summarized in the table below:

Time Period	Meeting	Topic(s)	Task	Information Needed	Status
April	EEAC Executive Committee Meeting	Consultant Team Work Plan	Develop and present to the Executive Committee on Consultant Team Work Plan for Q2 2021		Complete
	EEAC Meeting	<ol style="list-style-type: none"> 1. BCR Models 2. Assessment of Potential (Active Demand) 3. MTMs 4. Q4 Results 5. Draft Plan Review Process 	Review and provide feedback on PA draft presentations; review PA MTMs; develop materials; brief Councilors	Draft presentation(s); responses to questions on PA MTMs	Complete. Briefed Councilors Prior to EEAC Meeting; Presented on Active Demand Management and the PA Q4 2020 results.
	N/A	AESC Study	Review sensitivities and climate policy analysis; support DOER and the Council with decisions related to implementation of the AESC options and values for this planning cycle		Complete

May	EEAC Executive Committee Meeting	Mid-Term Modifications (MTMs)	Review PA MTM requests and provide Council with recommendations on actions to take	Responses to questions on PA MTMs	Complete. The C-Team presented initial recommendations to the Executive Committee. Additional data on each mid-term modification was provided to the C-Team by the PAs.
	EEAC Meeting	1. 2022-2024 Draft Plan 2. MTMs	Review and provide feedback on PA draft presentations; develop materials; brief Councilors	Draft presentation(s)	Complete. Briefed Councilors Prior to EEAC Meeting; presented on key takeaways from the April draft 2022-2024 Plan. The Consultant Team also presented MTM recommendations to the Council.
June	N/A	PA Q1 2021 Results	Review of Q1 2021 results for both electric and gas programs	Q1 Report	Complete. The Consultant Team reviewed the PA Q1 Report, but did not present on results due to time limitations for the June Council meeting
	N/A	AESC Study	Review sensitivities and climate policy analysis; support DOER and the Council with decisions related to implementation of the AESC options and values for this planning cycle		Complete.
	EEAC Meeting	1.2022-2024 Plan Review 2.Council Resolution Discussion	Review and provide feedback on PA draft presentations; develop materials; brief Councilors	Draft presentation(s)	Complete. Briefed Councilors Prior to EEAC Meeting; presented a 2022-2024 Planning update.

		3. Q1 2021 Report		
On-going Q2	N/A	Strategic planning	Work with DOER, AGO, and PAs to schedule and participate in meetings related to high priority topics identified as areas of focus for the next Three-Year Plan.	Provided support on key strategic planning efforts.

ACTIVE DEMAND

In Q2, the active demand advisory group met with the PAs and DOER to discuss 2022-2024 Active Demand Planning values. The EEAC Consultants also presented on ADM at the April EEAC meeting as part of the Consultant’s Assessment of Potential presentation. After the release of the PAs April Draft Plan, the active demand advisory group met with the PAs and DOER multiple times to discuss proposed active demand savings in the plan.

Time Period	Meeting	Topic(s)	Task	Information Needed	Status
April	April 6 Active Demand Meeting w/ PAs	Active Demand Meeting	Meeting with PAs to discuss Active Demand potential and Consultant Team Recommendations for 2022-2024	-PA Potential Study detailed methodologies -Consultant team sources and methodologies for proposed plan values	Complete
	April 14 EEAC meeting	Active Demand Presentation to the Council	Develop comprehensive overview of PA potential study ADM findings and Consultant team recommendations	None	Complete
May	N/A	2022-2024 ADM Plan review	Review and analyze PA draft plan and goals for ADM in 2022-2024 plan cycle	-Detailed breakdown of ADM by technology for C&I curtailment and ADM participation in Wifi T-stat programs by rate	Complete

				class	
	May 12 Active Demand Meeting w/ DOER	2022-2024 ADM Plan values	Discuss PA draft plan ADM values and goals and develop Consultant team recommendations on said plans	-PA filed draft Plans and BC models	Complete
June	June 1 ADM Call w/ PAs	Initial discussion on 2022-2024 ADM Plan values	Discuss PA draft plan ADM values and data issues identified in draft BCR models	Detailed breakdown of ADM by technology for C&I curtailment and ADM participation in Wifi T-stat programs by rate class	Complete
	June 30 ADM Key Drivers Call w/ PAs (Continuation of June 1 call)	Follow-up discussion on 2022-2024 ADM Plan values and opportunities to expand savings particularly from income Wifi T-stats (Res and IES), and storage for all sectors	Follow-up discussion on data needed to assess ADM values proposed in April Draft Plan; Review of various sectors/technologies enrolled in ADM programs Also discuss various ADM policy-related issues for storage/daily dispatch	Detailed breakdown of ADM by technology for C&I curtailment and ADM participation in Wifi T-stat programs by rate class	Complete
On-going Q2	2021 ADM enrollment	Review PA ADM enrollments in 2021 Summer programs for both Res and C&I programs	Compare actual enrollment to planned and layer in evaluation/performance factors to estimate anticipated performance for 2021 Summer	Enrollment info reported by PAs in Q1 report	
	N/A	Winter 2020/2021 performance	Review Winter 2020/2021 ADM performance from Q1 Reported data	Q1 report	

RESIDENTIAL AND INCOME ELIGIBLE

The Residential Advisory Group worked this quarter to review and analyze the residential and income eligible content of the PAs' April 30 draft including participating in the key drivers process, support the Equity Working Group, and provide the EEAC with information relevant to its priorities for the July Resolution.

Time Period	Meeting	Topic(s)	Task	Information Needed	Status
April	April 14 EEAC	MTM requests	Review PAs' MTM requests and compile requests for additional information and comments	MTM requests from PAs	Complete
	April 16 RMC	Municipal partnerships	Discuss 2020 results	2020 Municipal partnerships results	Finalizing partnership reporting metrics for 2022-2024 plan
May	May 12 RMC	HVAC electrification in draft Plan	Review draft Plan and prepare discussion questions	Draft Plan	Ongoing discussion
	May 26 EEAC	Consultants' feedback on draft 2022-2024 plan	Review and analyze narrative and quantitative content of draft plan	Draft 2022-2024 plan	Complete
June	June 2 RMC	Near term tactics to boost heat pump production	Compile list of tactics to share with PAs	None	Tactics presented and discussed; status of PAs' efforts will be periodically reviewed
	June 23 EEAC	Planning update presentation	Contribute content related to residential and income eligible sectors	None	Complete
	June 25 RMC	Delivery models that combine heat pumps and weatherization	Compile information on models to accomplish this	Other delivery models	Discuss with PAs plans to revise draft Plan to more fully achieve co-delivery

On-going Q2	1-2x/mo., plus planning meeting and preps	Equity Working Group	Prepare for and participate in Equity Working Group meetings	Various types of information to support focus topic for each meeting	Still working with PAs and Equity Working Group to finalize equity targets
	N/A	Workforce development	Review draft plan; schedule meeting with PAs and LEAN to discuss draft workforce development plan content and provide initial comments	Draft 2022-2024 plan	Met June 29 Continuing discussion at meeting on August 10
	N/A	PA reporting	Review and analyze PA reporting, including Q1 report and KPIs	Q1 report	Complete
	N/A	EM&V	Coordinate with res EM&V efforts, including providing input on draft res EM&V work products	Draft res EM&V reports	Complete
	N/A	Income Eligible Program	Conduct key drivers process for Income Eligible Sector; coordinate regularly with DOER and with LEAN	Draft 2022-2024 plan	First meeting held on June 14; additional meetings will be held in July and August

COMMERCIAL AND INDUSTRIAL

The C&I team’s quarterly report is structured primarily around scheduled Commercial & Industrial Management Committee (CIMC) meetings which took place twice per month, as well as participation in several different PA working groups. Where possible, substantive matters were discussed at CIMC to ensure a discussion and exchange of information and perspectives. In addition, there were ongoing matters related to addressing the EEAC’s priorities and general work to monitor the PAs’ implementation of their 2019-2021 Plan commitments. The specific tasks related to these meetings and on-going work are listed in the table below:

Time Period	Meeting	Topic(s)	Task	Information Needed	Status
April	April 7 CIMC meeting	Combined Heat and Power (CHP) market changes	Review of end-of-life replacement market for CHP, alternative fuel projects, and new customer segments interested in CHP.	PA program update on 2020 Q4 CHP report	Complete; further discussion of biogas fueled CHP warranted
	April 20 CIMC meeting	Controllable Lighting Technologies	Discussion of lighting controls delivered through various pathways (including dimmable TLEDs).	EM&V results on C&I lighting	Complete
May	May 5 CIMC meeting	Deep Energy Retrofits	Discussion of PA experiences w/ comprehensive deep energy retrofit projects, particularly those that involved building envelope and high-performance HVAC systems	PA Example projects that meet definition for Deep Energy Retrofits; baseline determinations for various comprehensive custom retrofit projects	Complete; Consultants developing proposed Deep Energy Retrofit framework document to share w/ PAs as part of 2022-2024 planning process
	May 18 CIMC meeting	Draft 2022-2024 Plan C&I Sections	High-level overview of various key components of C&I program offerings/savings	Draft 2022-2024 report, BCR models and supporting statewide data tables	Complete
June	June 2 CIMC meeting	EEAC recommendations from March resolution and PA responses	Review of April Draft plan response to Council recommendations in April draft plan	PA Response to Council Recommendations Document	Complete
	June 15 CIMC meeting	Evaluated 2020 results	Review of evaluated 2020 results/BCR model findings.	2020 Evaluated Results/BCR model	

On-going Q2	Informal C&I Leads Call	Bi-weekly informal check-ins w/ CIMC co-chairs and DOER	Agendas determined before meetings	TBD as agendas are developed	
	Weekly DOER Check-in Calls	Weekly check-in between C-team and DOER on C&I programs	Develop agendas, take notes and distribute follow-ups for each meeting.	NA	Ongoing

EVALUATION, MEASUREMENT, AND VERIFICATION

In Q2, our work in the area of Evaluation, Measurement, and Verification (EM&V) continued to be shaped by the requirements of the 2009 Council resolution that established the Commonwealth’s current EM&V framework, which assigns substantial responsibilities to the Council Consultants. Working on the Council’s behalf, we are charged with overseeing every phase of the EM&V process, including evaluation planning, contractor procurement, study implementation, reporting and outreach, and application of study results.

Specific EM&V research objectives in the second quarter of 2021 include:

Time Period	Task	Information Needed	Status
Ongoing Q2	Complete the bulk of the studies that are needed to inform the three-year plan. Highlights include 8 net-to-gross studies, and studies of NEIs in the low-income multifamily and C&I sectors. (A few of these studies are scheduled for completion in Q3.)	None	As of the end of the 2 nd quarter, the majority of the studies needed to inform the three-year plan had been completed. In some cases, impact parameters had been finalized but full reports were still in progress. (As noted to the left, a few studies feeding into the three-year plan were not scheduled for completion until Q3.)
	Continue moving through the planning and implementation process those in-progress studies that do not need to be finalized in time for the three-year plan.	None	Complete.
	Begin development of the final draft of the SEP, including Stage 1 plans for specific studies to be included in the SEP.	None	Development of the final SEP was begun and is expected to be completed in Q3.
	Provide as-needed EM&V support for policy and planning issues that arise in connection with the three-year planning process.	None	Complete for Q2 but ongoing in Q3.

TECHNICAL SERVICES

The Technical Services team is responsible for a variety of administrative tasks that support the Council's information sharing.

Below are the primary tasks of the Technical Services Team in Q2 were:

Time Period	Task	Information Needed	Status
On-going Q2	Update the EEAC website including improving the search function, updating images, and improving backend functionality.		Met with Cahoots to discuss updates needed to EEAC website; gathered images for use on updated website; reviewed a mockup of a redesigned homepage and provided feedback. This work will be on-going in Q3.
	Post meeting materials for the April-June EEAC Meetings, planning workshops, and other associated planning resources and public comment.		Complete
	Take meeting minutes at the April-June Executive Committee and EEAC meetings.		Complete

COUNCIL DELIVERABLES

The sections below provide details on Council work products for Q2:

Month	Category	Topic	Description	Advisory Group(s)	Status
April	Memo	Consultant Team Q2 Work Plan	A memo identifying key tasks and deliverables of the Consultant Team in Q2 2021	All	Complete
	Memo	Consultant Team Q1 report	A report summarizing the activities of the Consultant Team in Q1 2020	All	Complete

	Presentation	ADM Assessment of Potential	A presentation summarizing PA potential study results and identifying potential ADM savings in the 2022-2024 Plan	Active Demand	Complete
May	Presentation	Q4 Results	A presentation highlighting results of the PA Q4 report and KPI data	All	Complete
	Presentation	Draft Plan Review Process	A presentation outlining the process for reviewing the first draft of the PA 2022-2024 Plan	Planning & Analysis	This presentation ended up being developed by DOER
	Presentation	Draft Plan Review	A presentation summarizing initial takeaways from reviewing the PA 2022-2024 Plan	All	Complete
	Memo	MTMs	A memo summarizing each PA MTM request and recommended action for the Council to take on each	All	Complete
June	Presentation	Key Drivers Update	A presentation summarizing additional analysis done on the content of the PA 2022-2024 Plan	All	Complete
On-going Q2	Tracking Spreadsheet	EM&V Status Update	A spreadsheet summarizing the status of current and planning EM&V studies – Updated monthly	EM&V	Complete