

Memo



→ CONSULTANT TEAM

To: **Energy Efficiency Advisory Council**
From: **Eric Belliveau and the Consultant Team**
Date: **August 6, 2020**
Subject: **EEAC Consultant Team 2020 Second Quarter Report**

SUMMARY

This document summarizes the work completed by the EEAC Consultant Team during the second quarter of 2020. In each section below, the Consultants provide details on the status of key deliverables and tasks undertaken during Q2. The Consultant Team spent a significant amount of time in the beginning of Q2 supporting DOER and the Program Administrators (PAs) as they responded to program impacts from the COVID-19 pandemic. The Consultant Team also continued to focus on supporting and guiding implementation of the numerous new elements included in the PAs' Plan including active demand reduction (ADR), energy optimization, an MMBtu savings metric, workforce development, among others. The sections below describe specific tasks the Consultant Team completed in Q2 that did not have a distinct deliverable associated. We also provide a table at the end of the document that lists the known deliverables the Team produced over the quarter.

PLANNING & ANALYSIS

In Q2, the Planning and Analysis Advisory Group participated in several working groups and provide recommendations for a response to the program impacts caused by the COVID-19 State of Emergency. Other work in Q2 included reviewing, analyzing, and commenting on results of the Navigant MMBtu study, commenting on the 2021 Avoided Energy Supply Cost Request for Proposal (AESC RFP), and continuing to work with the PAs to resolve questions on the Cape and Vineyard Electrification Offering (CVEO) cost-effectiveness inputs. These tasks are summarized in the table below:

Time Period	Meeting	Topic(s)	Task	Information Needed	Status
April	N/A	Mitigation Strategies	Support the PAs in identifying and developing mitigation strategies for the impacts of COVID-19 on energy efficiency (EE) implementation	PA plans for program strategies, outreach, virtual auditing, etc. Data related to virtual audit activity and other program changes related to COVID-19.	Participated in working group meetings with PAs; developed list of recommended COVID response actions for the PAs to consider.. PAs shared plans for program changes in response to COVID. Additional data will be needed to assess the impact of these program changes. This task is still on-going.
	April 15 EEAC Meeting	1. CVEO Final Review and Vote 2. Behavior Programs Update 3. Mass Save Program Implementation Update, 4. Non-Participant Study Follow-up	Review and provide feedback on PA draft presentations; brief Councilors	Draft presentations	Completed
	N/A	AESC 2021	Comment on initial draft of regional avoided costs study RFP; work on revised draft RFP with study group		Task completed; AESC study work will be on-going
	N/A	MMBtu Report	Analyze results of the MMBtu report; provide comments to PAs on report; work with DOER on determining next steps for Council and report submittal to DPU		Completed

	N/A	CVEO	Continue working with Cape Light Compact (CLC) to answer questions related to income eligible non-energy Impacts (NEIs) and net-to-gross ratios (NTGRs) for CVEO		Completed
May	May 20 EEAC Meeting	<ol style="list-style-type: none"> 1. Mass Save Program Implementation During COVID-19 Update 2. Equity Working Group Discussion 3. C&I Implementation Update 4. Q1 Report 	Review and provide feedback on PA draft presentations; brief Councilors	Draft presentations	Completed; The performance incentive lunch and learn, originally scheduled for May was moved to June. The Non-Residential New Construction Redesign topic, which was originally on the May meeting schedule was not part of the final agenda.
June	June 17 EEAC Meeting	<ol style="list-style-type: none"> 1. Mass Save Program Implementation During COVID-19 Update 2. LEAN/CMA Joint Presentation - Greater Lawrence 3. 2019 Year End Results 	Review and provide feedback on PA draft presentations; brief Councilors	Draft presentations	Completed. A Low-Income Program Update was originally scheduled for the June EEAC meeting but was not included on the final agenda.
On-going Q2	N/A	AESC 2021	Participate in planning meetings and review inputs and materials as available, develop RFP		Completed for Q2. RFP released; proposal review and contractor selection being finalized. Study will be underway throughout Q3 and Q4.
	N/A	AESC supplement for MA, on localized transmission and distribution (T&D) and	Review and comment on memos on revised winter benefits and localized	Contractor final report and presentation	Completed. Study completed with final presentation on April 30. Included future work on these issues, building on the

		winter benefits	T&D		MA supplemental study, in the full AESC study RFP.
	N/A	Strategic planning	Work with DOER and PAs to prioritize strategic planning items and determine next steps		Met with DOER and PAs to discuss strategic planning; this work will be on-going in Q3.

ACTIVE DEMAND

In Q2, the active demand advisory group reviewed evaluation results of the summer 2019 ADR offerings (programs and demonstrations), the ADR experience for winter 2019/2020, and the planned ADR efforts for summer 2020, and supported the Council's resolution on this topic.

Time Period	Meeting	Topic(s)	Task	Information Needed	Status
April	N/A	Daily Dispatch	Review daily dispatch filings and coordinate with DOER	PA daily dispatch filings	Completed
	N/A	ADR Integration	Support integrating ADR and EE summer offerings for C&I and Residential programs. Assess the opportunities for solution providers to participate and solutions to be integrated, including for daily dispatch.	PA plans for integrating ADR and EE offerings, and to provide opportunities for solution providers	Completed for summer 2020 ADR. Will follow up in Q4 to assess for winter 2020/2021 and future.
	N/A	Summer ADR offerings	Coordinate with DOER on supporting PAs on summer ADR offerings and actions	PA plans for summer 2020 ADR	Completed for summer ADR
May	TBD				
On-going	N/A	ADR planning and review	Reengage the Demand Reduction Working	PA updates on ADR experience in winter	Completed. Met with PAs on April 27 for check-in and

Q2		of results	Group with the PAs for a three-part discussion on the summer 2019 ADR results (programs and demonstrations), the ADR experience in winter 2019/2020, and the planned efforts for the summer of 2020, including for storage.	2019/2020, and PA ADR plans for summer of 2020	review. Will engage in early Q4 to review summer 2020 initial experience and plan for winter 2020/2021.
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RESIDENTIAL AND INCOME ELIGIBLE

The Residential Advisory Group’s quarterly report is structured primarily around the Residential Management Committee (RMC) meetings which took place twice per month. Where possible, substantive matters were discussed at RMC to ensure a discussion and exchange of information and perspectives. In addition, there were ongoing matters we are attending to that stem from prior work with the RMC, EEAC, and LEAN, including addressing the EEAC’s priorities and general work to monitor the PAs’ implementation of their 2019-2021 Plan commitments. Much of this Quarter’s work involved efforts to adjust to COVID-19-related developments and impacts. Beyond those matters, 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 8 RMC	COVID-19 response	Support PAs’ COVID-19 response	Status update from MA PAs; information about regional efforts	Received update from PAs
	April 15 EEAC	Residential nonparticipant recommendations; behavior programs update; energy optimization	Review and provide feedback on PA draft presentations; brief Councilors	Draft PA presentations	Completed
	April 22 RMC	Residential HVAC	Learn more about work of new HVAC program vendor and any program changes	Status update from PAs and their vendor ICF	Learned from ICF about challenges with contractor adoption of controls, and about new measureQuick quality installation tool—consultants requested costs for upgrading QI

					tools be waived during COVID; discussed status of customer education materials—still in progress
May	May 13 RMC	New Homes Program	Learn more about approach for new homes, especially given rising baselines	Status update from PAs; information on program activity by fuel type	PAs provided requested information on program activity by fuel; PAs reported they have not started thinking in earnest about the future of the program; we identified a particular opportunity in moving interest on propane to electric; learned no plans to support Passive House for SF
	May 27 RMC	Lessons learned from and future of remote and virtual assessments	Compile information on vision and possible approaches for PAs	Examples of vendors and work in other jurisdictions	Consultants provided the information they had compiled; PAs indicated they are interested in seeing how work scopes from virtual audits match in-field conditions
June	June 10 RMC	2019 year in review; extra support for customers during COVID summer	Review Plan Year Reports	Plan Year Reports	Both topics were discussed, and PAs shared successes and challenges in 2019; PAs are offering virtual audits and enhanced insulation incentives. Consultants flagged other areas of opportunity.
	June 17 EEAC	2019 Plan Year Reports	Review Plan Year Reports; review presentations from PAs; draft presentation(s) as appropriate	Plan Year Reports; draft PA presentations	Completed

	June 24 RMC	Extra support for customers during COVID summer; updated on revisions to Interactive Voice Response (IVR) phone system; preliminary reports from return to field	Work with Metropolitan Area Planning Council (MAPC) to identify specific strategies for summer	Updates from PAs	Ideas we and MAPC brought forward did not appear to get much traction; IVR enhancements not yet complete; initial feedback on return to field is positive
On-going Q2	N/A	PA reporting	Review and analyze PA reporting, including Q1 report and 2019 Plan Year Report	Q1 and Plan Year Reports	Review complete for purpose of reporting analysis to EEAC; data will be a resource on an ongoing basis
		EM&V	Coordinate with res EM&V efforts, including providing input on draft res EM&V work products	Draft res EM&V reports	Met monthly with EM&V colleagues; provided input on draft studies related to Code Promulgation Attribution, Residential Coordinated Delivery, Energy Optimization in New Construction; Residential Customer Profile Study and Dashboard; virtual assessments, TRM update, and various lighting studies
		Planning, technical and strategic support	Determine current status of PA implementation efforts regarding energy optimization, new homes, HVAC, and Residential Coordinated Delivery	Updates from PAs, Key Performance Indicators (KPI) data	See updates from various RMC meetings above
		Income Eligible (IE) Program	Coordinate with LEAN on an ongoing basis; Collect and organize data on IES; determine	Updates from LEAN	Identified initial list of topics to cover at August EEAC meeting

			status of IE program delivery during COVID		
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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 we are attending to that stem from prior work with the CIMC, EEAC, and C&I stakeholders, including 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	N/A	Mitigation Strategies	Support the PAs in identifying and developing mitigation strategies for the impacts of COVID-19 on EE implementation	PA plans for program strategies, outreach, virtual auditing, etc.	Participated in working group meetings with PAs; developed list of recommended COVID response actions for the PAs to consider. This task is still on-going
	April 1 CIMC	Behavior/Operational Savings for C&I	Discussion of behavioral and operational efficiency measures including Strategic Energy Management and various C&I workforce development efforts like Building Operator Certification (BOC) or on-site customer training; persistence of savings and how to improve. Evaluation of behavioral/operational savings measures		Completed discussion; part of call used for COVID response discussions. Ongoing work related to Strategic Energy Management (SEM) cohort and pending Mass Save workforce development vendor RFP for turnkey vendor
	April 21 CIMC	EMS Program Design	Review of current approach to delivery of	Review of custom HVAC projects that included	Completed discussion; finalizing EMS position

	meeting		Energy Management System (EMS)/controls projects. In addition to baseline risks, there are implementation risks to properly installing, commissioning and operating EMS	controls (part of ongoing EMS baselines work in collaboration with PAs	document collaboratively developed between consultants and PA C&I implementation staff
May	May 6 CIMC meeting	Active Demand	Updates on enrollment for upcoming Summer ADR program; updates on joint marketing and/or program delivery of EE and ADR programs. Review of 2019 evaluations	Enrollment data for 2020 Summer ADR season	Completed discussion; open question amount of generator participation in both summer and winter active demand
	May 19 CIMC meeting	New Construction Redesign	Lead discussion on new construction (NC) program redesign - EUI based approach; early results and 2020 pipeline; customer experience and education through simpler prescriptive process. ADR integration into NC programs.	None	Postponed due to need for both PA staff and consultants' prep for May 20 th C&I focused EEAC meeting and EEAC councilor briefings CIMC meeting schedule topics pushed back by 1 meeting for remainder of 2020
June	June 3 CIMC meeting	Industrial Initiative	Remaining and emerging industrial process opportunities; demand response cross promotion; vendor strategies and subject matter expertise	Any relevant updates from PAs and Leidos on Industrial initiatives; some data already available from 2019 EM&V studies on custom electric programs	Completed discussion; new construction May 19 th topic. Revisit 25% reduction threshold when NMR delivers final sector specific energy use intensities (EUIs) CIMC meeting schedule topics pushed back by 1 meeting for remainder of 2020

	June 16 CIMC meeting	Update on Retro-commissioning	Check back in on retro commissioning (RCx) savings for HVAC and other non-lighting C&I savings; progress update on statewide implementation of ESPO program	Update on Equipment and System Performance Operation (ESPO) number of projects and total savings from each PA	Completed discussion; Industrial initiative June 3 rd topic. Discussed a range of industrial savings opportunities including some new ones like Telecom CIMC meeting schedule topics pushed back by 1 meeting for remainder of 2020
On-going Q2	N/A	EMS Baseline memo	In collaboration with the C&I PA implementers and evaluators, the C&I consulting team has been working to develop a better framework for establishing baselines for Energy Management Systems (EMS)		EMS memo finalized, reviewed/approved by PA staff and consultants. Being shared w/ EM&V before final release

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 2020 include:

Time Period	Task	Information Needed	Status
April	Finalize remainder of roughly 35-40 studies to be filed with the 2019 Plan Year Report (PYR). Continue efforts to mitigate effect of Covid-19 crisis on in-progress EM&V studies		Studies to be filed with the 2019 PYR were all completed. Efforts to mitigate the effects of COVID-19 are ongoing, but at this point some degree of normalcy has been achieved. At-home work

			by EM&V contractor staff has continued throughout the pandemic. We recently resumed fielding surveys and interviews, and are about to resume on-site visits/virtual site visits.
May	Plan wave of roughly 12 net-to-gross (NTG) studies needed for next 3-year plan		We are now in the detailed project-specific planning phase for these studies.
June	As COVID-19 situation allows, move wave of studies currently in planning stage to implementation stage		A few of the large wave of new studies that have been moving through the planning stage since late Spring have now reached the implementation stage.

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	Support DOER to develop process for holding virtual meetings in the near-term		Completed
	Post meeting materials for the January-March EEAC Meeting	Post meeting materials for the January-March EEAC Meetings	Completed
	Take meeting minutes at the January-March Executive Committee and EEAC meetings	Take meeting minutes at the January-March Executive Committee and EEAC meetings	Completed
	Support DOER with the completion of the 2016-2018 EEAC Annual Report to the Legislature		Completed

COUNCIL DELIVERABLES

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

Month	Category	Topic	Description	Advisory Group(s)	Status
April	Report	Consultant Team Q1 report	A report summarizing the activities of the Consultant Team in Q1	All	Completed: http://ma-eeac.org/wordpress/wp-content/uploads/2020-EEAC-Constulant-Q1-Report.pdf
	Memo	Consultant Team Q2 Work Plan	A memo summarizing the anticipated tasks and deliverables of the Consultant Team in Q2 for the Executive Committee	All	Completed: http://ma-eeac.org/wordpress/wp-content/uploads/2020-EEAC-Constulant-Q2-Work-Plan.pdf
	Presentation – Informational Webinar	Non-Participant Study	Joint presentation with PAs on results of the residential non-participant studies	EM&V	Completed: http://ma-eeac.org/wordpress/wp-content/uploads/Non-Participant-Webinar-Presentation.pdf
	Presentation	Non-Participant Study	Consultant Team recommendations for PAs based on non-participant study findings	Residential	Presented to EEAC: http://ma-eeac.org/wordpress/wp-content/uploads/Consultant-Team-Non-Participant-Presentation-to-EEAC.pdf
May	Presentation – Informational Webinar	Non-Participant Study	Joint presentation with PAs on results of the small business non-participant studies	EM&V	Completed
	Presentation	PA Q1 Report	Observations on KPIs, PA differences, areas PAs not on track to meet goals or council priorities	All	Completed: http://ma-eeac.org/wordpress/wp-content/uploads/KPIs-Presentation-to-EEAC.pdf ; also developed and presented presentation on C&I programs at May EEAC meeting: http://ma-eeac.org/wordpress/wp-

					content/uploads/CTeam-CI-Presentation-to-EEAC-May-2020.pdf
June	Presentation	PA 2019 Plan Year Report	Observations on 2019 results with a focus on conclusions drawn from measure-level data and implications of results for the rest of the three-year term; Analysis of new reporting in Plan Year Report on renter and limited English proficiency	All	Completed: http://ma-eeac.org/wordpress/wp-content/uploads/Consultant-Team-2019-Presentation-6.17.20v2.pdf
	Presentation – Special Meeting	Performance Incentive	A description of the background and design of performance incentives mechanisms in MA with a focus on the 2019-2021 Plan	Planning & Analysis	Completed: http://ma-eeac.org/wordpress/wp-content/uploads/EEAC-Special-Meeting-Performance-Incentive_6-29-20v5-final-corrected.pdf
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	Completed: http://ma-eeac.org/studies/