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**EEB Evaluation Committee Monthly Meeting MINUTES-DRAFT**

***MONDAY June 6, 2022 – 10:00-12:00 (meeting took the full 2 hours)***

ALL VIRTUAL MEETING – NO MEETING ROOM (recordings posted)

Meeting Materials in Box folder: is <https://app.box.com/s/>xxx

**New Link: Join Zoom Meeting** - <https://us02web.zoom.us/j/2534751779>

Phone in: 408/638-0968, Meeting ID: 253 475 1779

Backup only -**Call-In Number: 303/900-3524; WEB Access:** [**www.uberconference.com/skumatz**](http://www.uberconference.com/skumatz)

Join link with video only. *USE PHONE (NOT COMPUTER) FOR VOICE, AND MUTE WHEN NOT SPEAKING*

 *(Backup number – only if primary # doesn’t work –* [*https://zoom.us/j/2534751779*](https://zoom.us/j/2534751779)*; and use computer for voice.*

**COMMITTEE MEETING MINUTES – DRAFT**

*Attendees: Viglione\*, Donatelli\*, McLean\*, Fay\*, Eigo, Oswald, Emeerick, Willams, Errichetti, Reed, Lawrence, Mosenthal, Prahl, Wirtshafter, Gowans, Jacobs, Skumatz (\* means voting committee member)*

1. **Call to order, Skumatz**
2. **Public Comment - none**
3. **Minutes and invoices** – the committee decided they preferred to e-vote the following two items:
	1. May Minutes – Send Evote
	2. EA Team May invoice – Send evote
4. **Regular Documents to read ahead of time.** *No questions were raised during the meeting.*
	1. Interim e-votes and meetings – (read bottom of agenda)
	2. ***Project summary document*** – summarizes latest tasks accomplished, etc. (PDF attached)
	3. ***Project Gantt chart*** – short status report that focuses on items Committee should be aware of (PDF attached) / updated
	4. ***Data tracking report*** – long version summarizes email and phone traffic, meetings, issues, and latest transactions related to data requests (traditional list form, by project, PDF being forwarded shortly)
	5. ***Data deadlines report*** met / not by utilities – for quarterly tracking (PDF to be forwarded): summarized metrics for each data request by project by utility. New form. Comments requested. Attached.
	6. ***PO tracking report met/not met by utilities – for quarterly tracking (PDF to be forwarded).***  summarized metrics for each PO by utility. New form. Comments requested. Attached: Does not yet have 3 year research area contracting included – focuses on existing contracts.
5. **Other regular information to read prior to the meeting –** *No questions on these items during the meeting.*
	1. Covid Updates from utilities, if any - assume none.
	2. Update on data sharing authorized by EA Team to reduce data requests / leverage data – none this month
	3. Working with Exec Secretary on getting current on posted studies – work continues, additional ones sent this month (legislative, studies, kickoffs)
	4. Continuing to monitor request from C&I industry group for streamlined EM&V
	5. **Item discussed by Skumatz - Updates** - Presention on evaluation to EEB (6/8), to Residential committee (HP) 6/8, and to Second Onboarding meeting (6/1/22). Presentation for 6/1 onboarding attached.
		* *Skumatz mentioned these items, and reminded the Commmittee about the upcoming presentation in the Residential Committee meeting.*
		* *Skumatz also mentioned the legislative report was distributed for comment asap*
6. **PSD process – and 5/15 documents**
	1. Skumatz walked through the following items.
		* Apologies for requests for rapid review on studies. Usually 2 weeks. Provided 2 weeks offr long reports, but short memo-reports we requested shorter review. Happy to extend for anyone requesting it.
		* Status of reports being reviewed / see attached table (5/15 studies).
		* Reminder - 1 month extension request (6/15) for HES / HES-IE key topics. NMR has requested additional 2 weeks. Request passed to utilities via email several days ago. Initial feedback appears positive if the changes aren’t to complex or involve algorithms, etc. .
	2. Jacobs –
		* PSD update process. Studies 🡺 Utility memo (6 weeks) 🡺 EA memo back (4 weeks) 🡺 remaining issues brought to Evaluation Committee 🡺 meetings to vet & interpret / vet redlines.
		* Meetings have not yet started in earnest
		* contractor has been hired by utilities to update but especially update the formatting of the document.
		* PSD values: Correction on one item – EUL pulled incorrectly in last update – utilities agreed / are adding to PSD work.
	3. Jacobs Presentation replicated

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| **Program Savings Document (PSD) Update****The PSD will be updated for the 2023 PSD based on:*** + Measure specific PSD update studies under X1931
	+ Evaluation studies completed since last update

**Updates will include:*** + Parameter updates in individual measure sections
	+ Appendix values such as realization rates and net to gross ratios applied across multiple measures
	+ Updating document format, cataloging references and fixing typos

**Parameter update examples****PSD Update Research (X1931)*** + **Commercial Refrigeration system efficiency (X1931-5):**
		- Average seasonal refrigeration efficiency used in several refrigeration measure calculations
	+ **Commercial Lighting Controls (X1931-4):**
		- Energy savings factors (% of annual consumption) developed for various lighting control systems

**Evaluation Studies*** + Residential measure life (EUL) study
	+ Heat pump and heat pump water heater study
	+ Energy Conscious Blueprint (ECB) Baseline study

**Evaluation Study Examples – Realization Rates*** **Gross realization rates (% of claimed savings)**
	+ Home Energy Solutions (HES) and HES-IE (R1938B)
* **Net realization rates (free-ridership and spillover)**
	+ Commercial Midstream HVAC and Water Heating (C1902A)
	+ Commercial Midstream Foodservice and Laboratory(C1902A)
	+ Home Energy Solutions (HES) and HES-IE(R1938A)
* **Realization Rates applied at the Program and Measure Group level**

**Evaluation Study Examples – Other PSD Appendix Value Updates*** **Measure Life**
	+ Residential measure life study (X2001A)
* **Non-Energy Impacts (NEI)**
	+ Low-income arrearages (X1942)

**PSD Update Process*** Evaluation Studies completed (5/15)
* Utility Memo Outlining Changes (6 weeks target with allowance for late arriving reports)
* Evaluation Advisory Team Response Memo (4 weeks)
	+ Issues brought to Evaluation Committee
* Regular meetings with utilities and EA team to review and vet changes
* Draft redline PSD
* Final PSD 11/1
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1. **Conditions of Approval Walk-through –**
	1. Skumatz walked through the following list of Conditions of Approval that the EA has some role in, and the actions planned by the EA. Conditions and EA Team status summarized below



* 1. Prahl provided a background and smmary of the EA’s contributions on Condition 3, and summarized meetings held with the Utilities on the topic. Prahl’s presentation provided in table below.

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| **2022-2024 C&LM Plan: DEEP Condition of Approval Regarding Continued Need for Residential Gas Heating Equipment Incentives****Excerpt from DEEP Determination**“…The Utilities have committed to “investigating whether program supported natural gas-fired condensing equipment is replacing existing condensing equipment as a market baseline, and if so, whether there is continued need to [continue program support for this equipment]” during the 2022-2024 Plan term. As further described in the Conditions of Approval, if an evaluation determines that such equipment should now be considered the baseline, incentives should be discontinued. Thus, DEEP is directing the Utilities to work with the Evaluation Administrator to complete this investigation by June 2022 and file their findings with DEEP for approval shortly thereafter.” **Excerpt from DEEP Conditions of Approval**“In the proposed 2022-2024 Plan, the utilities committed to investigating the continued need to incentivize certain high-efficiency natural gas furnaces, boilers, and boiler water circulator pumps. The utilities will work with the Evaluation Administrator on this investigation and are specifically directed to apply findings from other jurisdictions, specifically Massachusetts, on this issue. The Utilities should report the findings of this investigation to the Energy Efficiency Board no later than their June 2022 meeting and submit to DEEP for approval shortly thereafter.” Discussions Between Utilities and EA Team To Date* EA team provided background to utilities on approach MA took in 2021 regarding continuation of market-rate residential gas heating incentives
	+ MA approach drew a new distinction between homes that do/do not have pre-existing condensing exhaust
		- Rationale: given the one-time cost of condensing exhaust, homes that do not have it are less likely to buy condensing heating equipment
	+ MA analyzed market data in MA to develop separate baseline assumptions for each situation
	+ Results showed baseline for homes with pre-existing condensing exhaust to be much more efficient than for homes without
	+ This led to new two-track program approach, with much higher incentives for homes without pre-existing condensing exhaust
		- Approach focuses resources on those market-rate homes that are least likely to purchase condensing equipment without help
* EA Team and utilities discussed the potential applicability of the new MA baseline assumptions to CT

Outcome of Discussions* Utilities and EA Team have agreed it would be defensible from an EM&V perspective for CT to adopt same split baseline approach and values as MA
	+ What data we have suggests markets in the two states are similar
* Our understanding is that the utilities are now planning to move to two—track incentive approach similar to MA’s
	+ Preliminary screening indicates this is viable
	+ Will require moving at least partially from current midstream incentive to a downstream approach
	+ EA Team will study the market response to this change, as well as to any further program design changes
		- 2022-2024 Evaluation Plan already contains a residential gas heating market study that can be used for this purpose
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1. **Organizing Progress on 2022 Projects**
	1. Wirtshafter – joint metering project. Presentation reproduced below.

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| New 2022 Heat Pump Metering Study HighlightsLarge Heat Pump Metering Study* Includes CT and MA
	+ 100 sites in each state
	+ May recruit other states
* Objectives:
* Statistical estimates of Heat Pump Annual Use
	+ Includes: Full and partial displacement –
	+ Central and mini-split systems
	+ Performance of integrated controls
* System performance at winter extreme temperatures

Study Timing* Installation of portion of MA systems this fall to ensure that metering approach works
	+ Will have some performance data for next spring
	+ Full implementation in 2023 with 2023-2024 year fully metered
	+ CT specifics not yet determined
	+ Dependent on contract finalization
	+ Need input from stakeholders on final objects, sampling and recruiting plans
 |

1. **Data report for 2021 Data and PO performance by utilities** –
	1. Report to be forwarded before meeting. Next month formalized per COA. Skumatz circulated summaries of the performance for the utilities.
	2. Utility 2022 Data request performance tracking: Both utilities met all data requests due beore 6/3. Follow-up on 6/3 data due to NMR.
		* UI – delivered data for bth tracks A and B.
		* Eversource had requested / received an extension for Part A to 6/17. Part B delivered.
	3. Utility 2022 PO / contracting performance tracking: Issues with 1965 (NMR) and 1982 (Evergreen):
		* UI: 1965 PO was delivered last week (Eigo)
		* UI: 1982 – problem with transferring the PO into the new system. UI notes two elements – extra dollars and extra time – difficulties with duplicate PO numbers in transferring to the new systems – Eigo working on it. Skumatz notes request is more than 1 year old.
		* Eversource 1982: PO issued in January and extension complete.
2. **Potential Topics for update by EA to EEB Board Meeting on 6/8. Group discussed which of the items below might be suitable. The focus / priority was on d- highlights of some studies.**
	1. 5/15 studies & PSD, future calendar & involvement (eval plan update)
	2. Contractor selection, study start
	3. Utility PO and Data performance tracking
	4. Highlights of some studies – HP? Commercial
	5. Other ideas?
3. **Highlights of some recent Evaluation reports for Committee – to give a heads-up on .**

**Lighting Studies**: Gowans discussed highlights of 2 related lighting studies: C2014 and X1931-4 on lighting controls. Out for review. Background is both are Phase 2 with products delivered last year each; these are updates on that previous work. 2014 is a remaining potential study that touches on tubular LEDs vs. Luminaires and controls. Extensive comments were received on the drafts. The advanced lighting controls focused on savings factors for PSD for mixtures of control types / technologies that are currently in the PSD. A particular change that was recommnded related to luminaires that were commissioned and networked vs. out of the box. This led to considerable feedback, especially from the Techincal Consultants. The Evaluation Consultant is working on those edits.

**Jacobs discussed key results from the 1902B ECB Code Compliance / Baseline study. Presentation duplicated below.**

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| **C1902B Energy Conscious Blueprint (ECB) Code Compliance and Baseline Study*** + Sample of non-participant commercial true new construction
	+ Overall code compliance rate of 85%
		- Consistent with findings in other states
	+ Installed equipment more efficient than code
		- Lighting (46% more efficient!)
		- Gas heating and water heating
			* Exceeded code baseline in all equipment types and capacity bins. Condensing equipment dominant except steam boilers
		- Unitary cooling equipment and heat pumps
			* Updates to baseline cooling (SEER) and heating (HSPF) efficiency values recommended.
	+ Installed equipment about equal to code
		- Electric chillers
		- Installed equipment less efficient than code
	+ Building envelope (insulation and windows)
		- Compliance rate of 57%
		- Trade-offs allowed under whole building performance approach
 |

Comments were raised about the sample size for condensing boilers. A summary of these results were recommended to be shared with the EE in the update on this coming Wednesday.

1. **Notes on upcoming agenda topics – not discussed**
	1. July: data & PO tracking; COA; ideations request for evaluation update
	2. Aug: Eval Plan discussions, COA;
	3. Sep: Eval Plan discussion/vote, new contractors, studies
2. **Status of EA Team non-project assignments for 2020/21 & Next Steps –** sent for reading. Skumatz notes the Legislative Report draft was sent for review; need comments asap followed by an evote.

| 2022 EA or Roadmap Deliverable | Status | Due | Completed |
| --- | --- | --- | --- |
| Eval in C&LM Plan Jan Briefing & Vote | Eval Committee vote for approval 1/10; Budgets approved by EEB | 1/12/22 | 1/12/22 |
| RFP for 2022-24 3-yr Research Areas | Issued 1/21, due 2/28 | 1/21/22 | 1/21/22 |
| Score / Recommend 3-yr Contractors | In process | Mar 2022 | 5/3/22 |
| Legislative Report – Evaluation Studies | For committee review after today’s meeting | Not specified | EVote After June meeting |
| EA contract renewal | Complete at ES and UI |  | April 2022 |
| PSD / Memo on use of Eval Reports by utils; responses by EA | Util Memo delivered 1/11/22 (6 wks after 12/1); EA response 2/11/22 (4 wks after memo); Utilities used in 3/1/22 filing; discussions of remaining issues 3/18/22 (mostly R1939) | 1/11 & 2/11 | 1/11, 2/11 met; follow-up discus-sions (provided to committee then, and 4/11) |
| Next PSD / Memo on use of Eval reports | 6 weeks after PSD#2 - studies close May 15 per Roadmap (util due); EA due 4 weeks later | 6 wks after 5/15 & 4 wks after |  |
| Eval Plan update | Need to complete earlier to be incorporated into C&LM Plan timing | Aug/Sept |  |
| Planning for 2022 studies | After contracting complete with the 3-year contractors; some planning now. |  |  |

1. **Other items** – Skumatz thanked the committee for the extension of the time for the meetings, allowing more engaging discussions. Requested committee members contact her if they have other suggestions, comments.

**To do: Skumatz send e-votes; committee review Legislative report asap.**

\*\*\* Supporting Materials in Box folder and attached before meeting, including:

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| * Updated Gantt Chart & Project Status Summary & data timeline report (attached)
* E-votes / call notes (attached / bottom of agenda)
* EA responsibilities in Conditions (attached)
* 5/15 studies schedule (attached)
 | * May minutes (attached)
* May invoice (coming)
* Legislative Report (attached)
* Data & PO deadlines / performance sheets (attached)
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***Summary of 2021-22 Votes To Date –***

|  | Minutes for the month | SERA Invoice |
| --- | --- | --- |
| June 2022 | *(These minutes) Emailed out* |  |
| May 2022 | *Distributed prior to meeting / committee wants to e-vote* | *Distributed prior to Jue meeting / committee wants to e-vote* |
| Apr 2022 | *Approved: In May Committee Meeting 5/9/22: - Motion / Second by Fay/McLean. In favor* McLean, Fay, Viglione, Donatelli (none against, none abstaining)– unanimous approval  | *Approved: In May Committee Meeting 5/9/22: - Motion / Second by Fay/Viglione. In favor* McLean, Fay, Viglione, Donatelli (none against, none abstaining)– unanimous approval  |
| Mar 2022 | *Approved – Evotes of yes from McLean, Viglione, Fay, and Donatelli, 4/28.*  | *Approved – Evotes of yes from McLean, Viglione, Fay, and Donatelli, 4/28.*  |
| Feb 2022 | *Approved: Sent for Evote 2/9/22; Approved McLean & Donatelli 2/9/22; Viglione and Fay 2/10/22* | *Approved: yes on 3/14 for all voters McLean, Viglione, Fay, and Donatelli.* |
| Jan 2022 | *Approved: Sent for evote after Jan 2022 meeting: Sent 1/10, 2/4; Approved McLean 2/5, Donatelli 2/7; awaiting Viglione (assume no vote Fay)* | *Approved: Sent for Evote 2/9/22; Approved McLean & Donatelli 2/9/22; Viglione and Fay 2/10/22* |
| Dec 2021 | *Approved: Sent for evote after Jan 2022 meeting: Sent 1/10, 2/4; Approved McLean 2/5, Donatelli 2/7; awaiting Viglione (assume no vote Fay)* | *Approved: Sent both portions for evote 12/17. Approved Donatelli, Viglione, McLean 12/17.* |
| Nov 2021 | *Approved: Sent 12/14. Approved McLean 12/16, Viglione 12/17, Donatelli, 1/10.* | *Approved: Sent 12/14. Approve Donatelli, McLean 12/16. Viglione 1/10* |
| Oct 2021 | *Approved: Sent 12/14. Approved McLean 12/16, Viglione 12/17, Donatelli 1/10.* | *Approved: Sent for evote 11/23, resent 11/30 (Approved McLean, Donatelli on 11/30, Viglione 1/10).* |
| Sept 2021 | *Approved: July/Aug/Sept sent 9/26 for evote; (Sept amended, then approved 9/27 Donatelli & McLean) Awaiting Vigliione.* | *Approved: Sent for evote 10/26. Approved McLean 10/26, Donatelli on 10/27, Viglione 1/10).* |
| Aug 2021 | *Approved: July/Aug/Sept sent 9/26 for evote; approved 9/27 Donatelli & McLean, Viglione 1/10)* | *Approved: July/Aug sent for evote 9/13. (Approved McLean 9/14. Evote resent to others 9/26; Donatelli approved 9/27, Viglione 1/10).* |
| July 2021 | *Approved: July/Aug/Sept sent 9/26 for evote approved 9/27 Donatelli & McLean, Viglione 1/10).* | *Approved: July/Aug sent for evote 9/13. (Approved McLean 9/14. Evote resent to others 9/26; Donatelli approved 9/27, Viglione 1/10).* |
| Jun 2021 | *Approved - May and June Minutes-Sent for e-vote 7/1/21, 8/9/21, 9/9 (In favor, Donatelli, 9/7, Viglione 8/9, Resent, McLean approved 9/26)* | *Approved – Combined Apr/May/June sent for evote 9/3, (in favor Donatelli and Viglione 9/4, 9/7, resent 9/9, 9/26; McLean approved 9/26)*  |
| May 2021 | *Approved - Sent for e-vote 7/1/21, 8/9/21, 9/9 (In favor, Donatelli, 9/7, Viglione 8/9; Resent, McLean approved 9/26)* | *Approved – Combined Apr/May/June Sent for evote 9/3, (in favor Donatelli and Viglione 9/4, 9/7) , resent 9/9, 9/26; McLean approved 9/26)* |
| April 2021 | *Approved - Sent for evote 4/12, 4/22 (In favor, Wells, McLean, and Viglione 4/22/21)* | *Approved – Combined Apr/May/June Sent for evote 9/3, (in favor Donatelli and Viglione 9/4, 9/7) , resent 9/9, 9/26; McLean approved 9/26)* |
| Mar 2021 | *Approved , Sent for evote 3,8, 4/12, 4/22 (In favor, Wells, Viglione 4/22/21, McLean abstain)* | *Approved , Sent for evote 4/12, 4/22 (In favor, Wells, McLean, and Viglione 4/22/21)* |
| Feb 2021 | *Passed. Sent for Evote 2/8, 3/8, 4/12, 7/1 (In Favor: McLean 3/8, Viglione 3/8, Wells 7/1)* | *Approved , Sent for evote 4/12, 4/22 (In favor, Wells, McLean, and Viglione 4/22/21)* |
| Jan 2021 | *Passed. Sent for Evote 2/8, 3/8, 4/12, 7/1 (In Favor: McLean 3/8, Viglione 3/8, Wells 7/1)* | *Approved , Sent for Evote 2/8, 3/8, 4/12, 4/22 (In favor, Wells, McLean, and Viglione 4/22/21)* |

**Other Votes / Meetings / Tracking (2021-2022)**

**June 2022 –**

* Meetings with EA and utilities on DNV project on reformatting (and some updates) to the PSD
* 6/8 – Update to EEB on Evaluation committee
* 6/8 – R1965/2027 HP presentation in Residential Committee
* 6/1 - EEB onboarding meeting

**May 2022** –

* Multiple review draft studies out and comments received. See 5/15 table.

**April 2022 –**

* Comments on Conditions of Approval 4/25, 4/27- not passed by EEB
* ***PASSED*** – Approval of winners of 3 year research area contracts – evote – April 27 – May 3, favor: Viglione, Fay, McLean; abstained Donatelli. Passing contract docs to utilities for contracting.

**Mar 2022 –**

* 3/10/22 3:30, Kickoff C2117 RCx Persistence Study Kickoff
* 3/4/22, 2pm, R1968 RNC Baseline & code compliance - Kickoff meeting (follow-up only for folks that couldn’t attend previous kickoff)

**Feb 2022 –**

* **VOTE / PASSED 2/10**: Agree to have project R1968 cover 2015 code update, add MF sample, and adopt the optional task for $20K addition, from the project X2234 “Emerging issues” from the 2022-24 Evaluation Plan (mentioned in the discussion included in the attached minutes; I have also attached the rationale memo from NMR) - Evotes from Donatelli & McLean 2/9; Fay and Viglione 2/10
* **VOTE / PASSED 2/10**: Agree to award the R1968 Phase 2 work to NMR on its existing PO, awarding project R2215 funds of $300K to allow smooth continuation of the project / no gap.  This awards the funds from a 2022-24 project to that existing PO. (minutes describe advantages) – Evotes from Donatelli & McLean 2/9; Fay and Viglione 2/10
* 2/15/22 R1968 RNC Baseline & code compliance - Kickoff meeting
* Special data meetings R1983 / UI
* 2/4/22 - Meetings on C&I verification refinement suggestion from CIE (Jan and Feb and ongoing)
* 2/3/22 - TRM meeting on level of detail of results for R1983 realization rates

**Jan 2022 –**

* 1/10 Stakeholder briefing for Phase 2 directions for R2015 (low load residential homes).
* 1/10 **APPROVED** EVALUATION PLAN, REVISED, by evaluation committee. In meeting.
* 1/12 Briefing with EEB on Evaluation Plan.
* 1/12 – **APPROVED BY EEB VOTE**
	+ 3-year Evaluation Plan and Budget - $14.775 million ($4.5 million, $4.5 million, $5.775 million across the 3 years)
	+ EA team budget – 2022=$444,110; 2023=$444,110; 2024=$531,155.
	+ EA Team scope of work; provided to utilities.
* Meetings on C&I verification refinement suggestion from CIE (Jan and Feb and ongoing; including C&I meeting, January)

**2021 Final Reports Issued**: 3/24 RR1973 ESRPP; 4/16 C1906 SEM Phase 1; 7/23 X1941 MF; 10/21 (or before) X1931-2 (CF&Loadshape), X1931-3 (air compressor), X1931-6 (HOU), X1931-7 (DD), X1931-8 (Adv. T-Stat); 11/22 R1959 Renov&Addn; 11/24 X1931 Early Retirement Phase 1; 12/14 C1901 C&I Sector-wide Process. Roadmap, Legislative report, Evaluation Plan.

**Dec 2021**

* ***Approved 2022-24 Evaluation Plan*** 12/17 (Sent 12/16; Donatelli abstain 12/16; McLean in favor 12/16; Viglione in favor 12/17) 2022=$4,500K; 2023=$4,500K, 2024=$5,775K
* ***Approved 2022-24 EA Team Budget 12/17***(Sent 12/17; Donatelli abstain 12/17; McLean in favor 12/17; Viglione in favor 12/17); 2022=$444,110, 2023=$444,110, 2024=$531,155
* ***Approved PO Budget reallocations, revised, replacing 10/26 version:*** *Sent 12/16, in favor Donatelli 12/16, McLean 12/16, Viglione 12/17. Add $203.6K to R1982; Add $8K to C1902; Add $25K to R2029; Addd $56K to R1965/2027/1983.*
* 12/17 - R1965/2027 HPs Key results presentation
* 12/14 – Final report - C1901 C&I Sector-wide Process
* 12/13 – X1931-4 (Lighting Controls) Phase 2 Kickoff
* 12/10 – X2022 Outreach / workforce Key results presentation

**Nov 2021**

* 11/24 Final Report - R1959 final report (R&A)
* 11/24 11/19 – R2014 Kickoff
* 11/22 Final report - X1931 Early Retirement Phase 1;
* 11/16 – Update on Evaluation to DEEP Day long workshop
* 11/9, 11/11, 11/12, 11/15 – Discussion meetings on Evaluation Project List, plus meeting
* 11/10 – Evaluation update to EEB

**Oct 2021**

* ***10/27 – PASSED Budget Realloc****: Evote to augment budgets for several projects: +211.6 for R1982 HP/HV Metering for covid stop/start, higher incentives, and meters remaining in a 2nd year; +25K for R2029 Wx from back-and-forth WAP data; and $56K for analysis of attribution and other issues related to HPs. (Votes in favor received: Donatelli 10/26, McLean 10/27). Awaiting Viglione.*
* 10/21 - X1931-8 (Adv. T-Stat)
* 10/21 – X1931-7 Report complete (HDD)
* 10/21 – Last 2021 PSD meeting with utilities
* 10/19 – R2014 – Phase 2 kickoff
* 10/19 – X1931-3 Report complete (Air Compressor)
* 10/18 – X1931-2 Report complete (CF& Load shape)
* 10/18 – X1931-6 Report complete (HOU)
* 10/13 – Eval presentation to EEB
* 10/1 – R2015 meeting

**Sept 2021**

* 9/17 – 2021 PSD redline from utilities (Ghani) to EA Team, requesting comments by 9/21. EA responded more time needed. Reviewed and called meeting with questions / discussion for 9/23. Utilities and EA reviewing the small number of comments raised / discussed to finalize shortly.
* ***PASSED 9/13:  C&LM Plan budget directions:***Approved agreement with discussion of the general structure of recommendations for C&LM Plan evaluation budgets to be forwarded to EEB Board – 1) increase evaluation project budgets to $4.5 million in 2022, increasing to $6 million by 2024.  2) Also approved agreement with general recommendation of structure for increasing EA Team budget by 35% with 50% increases in evaluation project budgets.   *Motion / Second: McLean & Donatelli in favor during Committee meeting Sept 13. Evote in favor from Viglione 9/14.*
* ***PASSED 9/13 NMR budget Add’n****: Approved R1983 NMR budget increase of $55,400 in meeting 9/13*. *McLean & Donatelli in favor during Committee meeting Sept 13. Evote needed from Viglione****.***
* ***PASSED: Approved Roadmap 9/9***: Sent 9/3, in favor McLean 9/4, resent 9/9, in favor Donatelli 9/9; awaiting Viglione, resent 9/26, abstains 9/28.
* 9/8/21 – Request for Evaluation Plan Project Ideas; first responses due 9/17

Aug 2021

* 8/5/21 - PSD 2020 update discussion meeting with EA / Utilities held; Reviewed about a dozen items that ERS review determined were not in redline. Decisions made/ERS re-reviewing for final redline for 2020 updates. To begin: updates from 2021 summer study results.

July 2021

* 7/8/21 - PSD 2020 update discussion meeting with EA / Utilities held; all dispositions for 2020 complete / agreed; forwarded to ERS for redlining and verification.
* 7/1 - Multiple Summer Presentation meetings held for use in PSD / Plan including: R2027 HP/HPWH Reliability & R1965 HP/HPWH Baseline & Potential (7/1); and C2014 C&I Lighting Sat & Remaining Potential (7/1).
* 7/1/21 - PSD 2020 update discussion meeting with EA / Utilities held

June 2021

* 6/25 – C1901 C&I Sector Wide Process Evalion Review Draft out for Review; 1 extra week means due 7/16.
* 6/22 – X1939 Early Retirement Report out for review; 1 extra week for review (due 7/13)
* 6/8-6/30 Multiple Summer Presentation meetings held for use in PSD / Plan including: X1941 MF (final presentation; 6/8 and 6/17); X1939 Early Retirement (6/14); R1959 SF Reno & Addn (6/17); X1931-6 Hours of Use (6/21); X1931-7 Degree Days (6/21); X1931-4 New Measure-Lighting Controls Res/C&I (6/23); C1901 C&I Sector-Wide Process Eval (6/24); X1931-1 ISP Com’l Boiler & Furnaces (6/28); X2001 EUL C&I (6/28); X2022 Educ/Workforce Initiatives (6/29); X1931-2 Coincidence Factor & Loadshape (6/30); New Measure Compressed Air (6/30); New Measure R/C&I Thermostats (6/30).
* 6/3, 6/10, 6/17, 6/24 - PSD update meeting / EA & companies
* ***Passed 6/9 Award Project R2015***: Evote approving recommended contractor (Evergreen) for project R2015. (McLean 6/9, Viglione and Li 6/11). Should be contracted by utilities along with R1968 asap.
* 6/3 PSD update meeting / EA & companies

May 2021

* 5/21 X2022 Phase 1 presentation / methods / best practices
* 5/19 SEM Phase 1 repeat presentation
* 5/6 Kickoff 3 “New Measure” projects (air compressor, advanced thermostats, advanced lighting controls)
* 5/6 - PSD update meeting / EA & companies

April 2021

* 4/15 C1906 SEM Phase 1 Presentation
* ***4/12 PASSED: Augment SERA Budget, add $69K to initial budget of $328,970***, transferring from X1940; All in favor in April Evaluation Committee meeting. Documented in memo dated 4/12.
* 4/7 R1973 Retail Products Final Presentation
* 4/1, 4/8 - PSD update meeting / EA & companies

March 2021

* 3/30 C1902 ECB NTG and Baseline K/O
* 3/22 X1942 NEI Kickoff
* ***PASSED 3/30 Award Projects***: 3/15 Evote Approval of Memo on RFP Project Award Recommendations (Viglione 4/15; Wells 3/30, McLean 3/29)
* 3/12 RFP responses due to EA Team
* 3/12 Repeat Kickoff X2022 Engagement project for those that couldn’t attend 3/3 (added due to storm duties)
* **Possible EVOTE OUTSTANDING/checking**: 3/8 Legislative report sent for evote, resent 4/12; In favor Viglione 3/16.
* 3/8 Kickoff for X1931-6 HOU/Load Shapes Project
* 3/ 4, 3/18 EA Team / utility meeting on PSD update process
* 3/3 Kickoff X2022 Engagement

February 2021

* 2/18 EA Team / utility meeting on PSD update process
* 2/5 R1973 Retail Products Review Draft Report sent to Committee for Review – due 2/19.
* 2/4 EATeam / Utility meeting on PSD update process
* 2/4 Legislative Report sent to committee for Review – due 2/19

January 2021

* ***PASSED: 2021 Eval Plan Update 1/27*** – 2021 Evaluation Plan Update ***Evoted and passed*** (1/27 McLean, 1/27 Wells, 1/28 Viglione)
* 1/25 Eval Committee Discussion on the 2021 Evaluation Plan Update
* 1/25 C1906 SEM Phase 1 (Eval Best Practices) Review Draft Report sent to committee for review - due 2/8
* 1/22 Eval Committee Discussion on the 2021 Evaluation Plan Update
* 1/4 - PSD update meeting / EA & companies