



EEB Evaluation Committee Monthly Meeting

Monday November 7, 2016 – 10:00-11:30

Department of Energy and Environmental Protection – Public Utilities Regulatory Authority,
Commissioner's Conference Room, OCC, 10 Franklin Sq., New Britain, CT

Meeting Materials in Box folder: <https://app.box.com/s/6c89gk1s8abazsv83m8l4504beyhoi4l>

NEW Call-In Number: 720/820-1390 Code (1st caller) 8296#

(Backup number – only if primary # doesn't work – 641-715-3580 code 327934#; host 8296)

WEBINAR ACCESS: www.join.me/SkumatzEconomics

MEETING MINUTES

Committee Attendees: O'Connor*, Gorthala*, Melley, Oswald, Duva*, McCree

EA Attendees: Jacobson, Chiodo, Prah, Skumatz, Wirtshafter

Guests: None

1. Public Comment - None
2. Approval of Minutes from October meeting (Skumatz) – send e-vote, along with comments about length / detail.
3. Introduction of New Evaluation Administrator Team (Prah only; rest already introduced / welcome)
4. Non-Project Updates and Issues (Skumatz, all)
 - a. Review Thursday reports and highlights; review interim meetings & votes – Data-heavy last few months, also need attention to POs. Making some progress on data, but significant problem on multiple projects, as will be reported during project updates. Request for detail on data and status during project updates.
 - b. SERA team invoice – Update on EA team invoicing – looks like team is still on track, with lower percent of budget spent than amount of year expired. However, note some expectations for proportionally higher expenditures late this year with evaluation plan work. Will keep committee posted.
 - c. Transition/ invoicing discussion – and impact of data issues on expenditures / progress. Expect considerable carryover by projects in 2017 for projects that started in 2016. Expect 2017 to have a peak in spending as it will include new project starts plus substantial 2016 carryover. Partial information (see table; several projects only known through Gantt date)
5. Discussion of Projects / Status (and data) – *see Gantt & Project summaries*
 - a. Walk-through of Projects / Monthly Status Report – focus on Gantt “changes” and status of new projects; update on results of call / meeting on “new” steps for projects
 - Residential Projects (Skumatz & Wirtshafter & Prah)

- Skumatz – 1606 received answer to question, so progressing and should be available by end of year. 1602 has substantial data issues, affecting progress. Note that D1 and D2 interim memo reports are unlikely to happen because of data issues. UI noted participant information, meter date, and heating information not well tracked anymore. Team requests consideration of re-instituting more extensive tracking for evaluation needs; response was doubtful it will change. Eversource missing RemRate files (about 1/3 missing); wondering if information forthcoming (No Eversource person on call). Trying to use available data to keep things moving forward, but reaching end of possible progress. Fielding builder IDI interviews, with recent survey refinements. Reserving some completes for UI in case data arrives in time, but if not delivered in time, the sample will be allocated to other utility; Oswald believes data will be delivered in next several days. Request back-up staff for Swift / Oswald for vacations, etc. 1613/14: Project has data issues. Waiting for program materials plus distributor contact info from Eversource (urgent). UI missing program goals and modeling efficiency info not included in tracking data (a gap), and billing and gas data for requested customers. Oswald notes IT request needed because large data request; have made progress including AMI data and call is set up to discuss questions. Progress on site visits. 1617 has data issues including billing data from Eversource and UI's program tracking data was delivered (helpful). Working on scenario and decision modeling for this project. EA team input into workplan refinement. Addressing pre- and post-conditions for right scenarios for modeling – thanks to working group.
- Wirtshafter – Project moving forward, and data issues are not critical to progress.
- C&I Projects (Chido & Jacobsen)
- Chido – 1630: Awaiting a purchase order for this project / issue started in September and are coordinating with Eversource on this. Work is proceeding; reaching out to account managers, planning / coordinating field work for next steps.
- Jacobson: 1639: Small business project – Data problems exist here. Have done contractor interviews and Eversource site visits are expected to be completed by end of year. Not sure on UI site visit progress / issue with UI background check requirements; working to address this issue. Data – impact evaluation are ok on project files, but the process side lacks data from Eversource (also awaiting contracts for non-participant sample, gas billing data, and other data). Received tracking data at high level summary format, and for lighting the data can replicate tracking data well; not as straightforward to track non-lighting measures and putting together request for additional information. 1641 BES has data issues, awaiting savings computations data that was requested in August; can't proceed until received. UI sent files last week that covered most of a request and is dealing with follow-up request; enough data from UI to start evaluation plan. However, no data from Eversource for impact evaluation for the project. Significant delay, affecting deliverable and budget expenditures by year. 1663: One pager approved last month and had mini kickoff meeting; the purchase order document / SOW will be sent to UI shortly for release of funds. In meantime, team working on work plan. Question about timing of data for this project; would like 2016 participants for this evaluation to be as timely as possible, so requesting utilities to provide preliminary data in early 2017 to determine sampling plan (recognize it isn't final, but sufficient for planning for process evaluation). Trying to address concern to have process evaluations be as current as possible / current program design. Impact evaluations require a time gap (post- data for billing). Same issue for Small Business program –

want to use 2016 participants, since haven't gone into field yet. Oswald has forwarded request up the chain, since no billing data in the request; noted he had provided partial year data in past before he was aware of utility policy on this.

b. Important discussion of timing of 3 year budgets for evaluation / carryover

- Initial feedback on expected budgets for carryover for projects. Talked about earlier.
- Commercial budgets are an issue going forward. Big issue on budget is significant dollars on commercial side (working to meet ISO). Jacobson has looked into ISO sampling / reliability issues from other states to understand if portfolio level or project level (latter has been plan thus far here, but expensive). The results of this analysis will affect project planning for evaluation plan. Jacobson sent request for summary of process / documentation related to bids for forward capacity market.

6. Evaluation Plan Update Process Proposal (Prah) - presentation

- Considered revised approach for evaluation process; compared to other states. CT's process is compressed, evaluation committee doesn't get much information on the project's design beyond title and budget, and that high level of information hurts committee's comfort down the road when it is time to move projects forward. Agreement from attendees. Tweaking process to make committee more comfortable. Stages envisioned in process are provided in overheads.
 1. Project idea solicitation (TC, contractors, etc.). Similar to previous process. Include criteria for assessment.
 2. EA's sort out ideas, add additional description of projects / more EA processing to help inform committee. EA assesses and distributes.
 3. Next stage in past is meeting for vote / not enough (actually, there are multiple calls). Expect 2 meetings of committee this time – one in-person meeting with multiple stakeholders with opportunity for discussion of the projects, with meeting in Mid-December.
 4. Then EA go back and use results of meeting discussion to develop proposed draft evaluation Plan. Committee votes in January meeting.
 5. After vote; mini-RFP process. Idea is next step after improved update to Plan is mini RFP process, bundling potentially all new projects into RFP / RFPs. Content at individual project level will look like one-pagers. Evaluation Committee could potentially vet these packets of descriptions rather than individual one-pager process.
- Positive feedback; likes chance for additional input early in the process. Mini-RFP process positive. No longer have one-pagers because more educated earlier about projects. Instead potential chance to review RFP – but recognize these documents will be closely related to outcomes of discussions of projects during evaluation process, so won't be new information. Question about level of project design in the discussion; real detail won't come until RFP stage as that's where best link between project steps and budget occurs. Note committee also gets summary of projects (including key objectives, type of data collection, analysis methods, etc.) in December in preparation for in-person meeting. Soliciting bids from pool this time. Prah suggested that in long run could possibly move back to research area contracts; Duva notes that it could be a transition in the future, but not current process. Envisioning as mechanism for committee review of projects in place of individual one pager process. Issuing project idea solicitation form; evaluation

criteria listed, and also forwarding useful background information (past project lists, etc.). Scheduled in-person meeting for Dec 12. Prior to that meeting, EA team will revise / combine / craft projects, design/ summarize, budget, and score and provide to committee. Then discussion, revision, and January vote. UI suggests starting the contracting process for the pool soon - getting agreements together (before scope of work). EA team should request pool firms get started on this. (Prah! wonders if contractors will want to spend on this process before they have promise of work).

- b. Jacobson notes that evaluation planning suffers from the level data is tracked on dashboard. Biggest gap is upstream lighting portion for the program doesn't seem to be tracked. Technical consultants don't have it either – affects planning. Oswald notes that on residential side, the retail products program is 99% retail lighting. Residential HVAC is also moving (majority) to upstream. On C&I side, upstream lighting evolved from EO program (not sure if it can be pulled out). Not sure if there is a single contractor on the C&I side for upstream lighting. Priority request of attendees to help with this breakdown.
- c. Skumatz walked through the criteria being used to assess the Evaluation Plan update project. Consider co-funding opportunities. Note that the timeliness of evaluation project is important (this year vs. next); consider what happens if didn't do the study.
- d. Scheduled first Evaluation Plan meeting following normal December meeting.

7. Roadmap discussion / walkthrough (Skumatz & Prah!)

- a. Edits / options – revised version not complete – major change from discussion of Evaluation Planning Process. Will send when complete.

8. Other items –

- a. Duva / Melley discussed the EM&V 2.0 grant with NEEP –nearing completion of contract negotiation. Multistate grant with CT as primary (NH, RI, NY, VT). Workshops and training on M&V automation will be part of it; LBL will be working with CT utilities on testing out M&V, integration of DR, try methodologies, etc. (using the \$1 million pulled aside). NEEP will work with the other states. This year is about setting up pilots. No money from evaluation plan funds. Question about whether the project is to compare results from traditional vs. new process; there will probably need to be some coordination to help facilitate this, and LBL will be looking at the evaluation plan to match up. Update should be provided in the January meeting.
- b. O'Connor – EA team needs to keep on top of the data issues and the data need to be straightened out with utilities. Data needs should be generally known by utilities at start with data requests/ utilities should provide feedback up front if something is not possible; not good to have it arise half way through project. (Vinay and Steve Bruno from Eversource will call Skumatz)

*** Supporting Materials in Box folder and attached, including:

- Updated Gantt Chart & Project Status Summary
- E-votes / call notes (attached)
- Minutes from last meeting
- One pagers (none this meeting)
- Latest Thursday report
- Edited Roadmap (not)

Summary of interim meetings and votes in January 2016

- 1/11/16 – to extend SERA contract until June 30 – passed;
- 1/25 – Committee conference call on first 2 C&I projects – no votes
- 1/27 – 3 votes in favor of approving choice of Res contractors; directed utilities to begin contracts; C&I contracts approved in Dec.

Summary of interim meetings and votes in February

- 2/12 – Vote to Approve C1630 passed (O'Connor, Dornbos, Gorthala)
- 2/8 – Vote to approve C1639 passed (O'Connor, Dornbos, Gorthala)
- 2/9 – Vote to approve SERA team invoice for Dec / Jan passed (O'Connor, Dornbos, Gorthala, Duva)
- 2/22 – committee call on Evaluation project list
- 2/23 – presentation on R91
- 2/26 – Vote to approve 3 year evaluation plan memo (2/9, revised 2/26 after 2/22 input from utilities) passed (O'Connor, Gorthala, Dornbos)
- 2/29 – vote to approve memo to EEB committee on evaluation plan (O'Connor, Gorthala, Dornbos)

Summary of interim meetings and votes in March

- 3/7 – Presentation of R32 (HER retention), R33 (Database improvement), R154 (lighting onsite)
- 3/9 – Skumatz presented at EEB meeting
- 3/14 – Presentation on R91 impact evaluation / engineering differences report.
- 3/14 – Webinar on Impact Evaluation methods
- 3/24 – Presentation on R151 and 2 C&I one-pagers

Summary of interim meetings and votes in April

- 4/11 During monthly meeting – PASSED - Clarifying Administrators responsibility for selecting contractors from within the competitive-RFP-qualified contractors to conduct specific evaluation projects. Passed (motion O'Connor / Gorthala). Voted in favor O'Connor, Gorthala, Dornbos proxy; None against; McCree abstain.
- 4/11 During monthly meeting – PASSED - Clarifying content of one-pagers and level of detail. Passed (motion O'Connor / Gorthala). Voted in favor O'Connor, Gorthala, Dornbos proxy; None against; McCree abstain.
- 4/11/16 – R4Plus Report Presentation. Presentation by NMR.
- 4/16/16 - Approved - One pager for C1641 approved including both optional -- with 3 votes (O'Connor, Dornbos, Gorthala on 4/14-4/16)
- 4/18/16 – Discussion of Residential One-Pager Drafts (R1615 LED NTG, and R1606 Retention of HERs). Attendees O'Connor, Oswald, Swift, Melley, McCree, Reed. HERS: timing questions. Note in future there will be gas elements. Lighting Project R1615: Interest in specialty bulbs. Prospective more important than retrospective / assessing trajectory. Elements of lifetimes would be helpful.
- 4/18/16 – Non-Energy Impacts. Attendees O'Connor, Oswald, Swift, Reed, O'Neill (GreenBank), Griffith (SWA), Rosenthal (Optimal), Smeden (Eversource), Thompson (Synch). Handouts distributed / posted.
- 4/23/16 – approve SERA Feb and March invoices (in favor O'connor, Dornbos, Gorthala, Duva)

Summary of interim meetings and votes in May

- 5/16/16 – Evaluation Committee call to discuss two one-pagers – R1613/1614 (HVAC and DHW impact) and R1602 (RNC)
- 5/16/16 – Evaluation Committee call to discuss BES and PRIME programs – utilities / administrators / evaluation consultants – to better understand program design and delivery.
- 5/20/16 – Approved – one pager for 1615 (LED NTG) – with 3 votes (O’Connor, Dornbos, Gorthala)
- 5/20/16 – Approved – one pager for 1602 (HER Persistence)– with 3 votes (O’Connor, Dornbos, Gorthala)

Summary of interim meetings and votes in June

- 6/13 – Meeting to discuss residential one-pagers (R1613/1614, R1602, and R1617) – attendees Lewis, Dimetrosky, O’Connor, Oswald, Swift, Reed, Franks, McCree, Melley. R1613/14 Discussions of baseline, free ridership, data timeframe, and upstream issues. R1602 discussed question of code change timing, MF vs. SF, lighting calculations, and non-program homes. R1617 discussed cold climate installations, integration with existing heating systems, onsite, and adjustment factor options. These points to be considered in revisions of one-pagers.
- 6/29-7/1 – O’Connor, Gorthala, Dornbos, DEEP (Melley) to approve SERA April Invoice.
- 6/29-7/1 – O’Connor, Gorthala, Dornbos, DEEP (Melley) to approve 1602 (RNC) with extra \$25K budget allotment; 1 (DEEP) in favor of project with no extras.
- 6/29-7/1 – O’Connor, Gorthala, Dornbos, DEEP (Melley) to approve 1613/1614 (HVAC & DHW Impact).
- 6/29-6/30 – O’Connor, Gorthala, Dornbos to approve Legislative report; DEEP weighing in 7/7.

July interim votes and meetings

- Workshop C&I 7/11 (C1630 Lgst Savers)
- Workshop C&I 7/18 (C1639 SBEA)
- 7/21 One-pager discussion R1617
- 7/22 One-pager discussion R1617
- 7/15-7/19 – C1630 Phase 2 Approved – 3 votes in favor (O’Connor, Dornbos, Gorthala); DEEP (Melley) abstained.
- 7/27 – Lori Lewis session on ECB realization rates / PSDs, etc.
- 7/26 – R1617 one pager approved (O’Connor, Dornbos, Gorthala, Melley)
- 7/27-8/2 - One-pager for C1639 approved – 3 votes in favor (O’Connor, Dornbos, Gorthala); DEEP against – to be discussed

August interim votes and interim committee meetings

- 8/3 SERA invoice approved for May and June 2016 (Melley, O’Connor, Gorthala)
- 8/9 R113 final released to committee; later posted
- 8/18 R15 final released to committee; later posted
- 8/17 R1613/1614 UI PO issued (R1615, R1606 issued earlier)
- 8/26 R1602 UI PO issued

September interim votes and interim committee meetings – MAY NOT BE COMPLETE

- 9/6 R1617 DHP UI PO issued
- 9/7 R1617 DHP Working Group Meeting #1
- 9/12 R113 project presentation (before regular committee meeting)

- 9/16 C1641 workplan walkthrough
- 9/19 One pager C1663 call / discussion; e-vote opened
- 9/22 EM&V 2.0 meeting / NEEP attended by some (new) team members
- 9/26 R1617 DHP Working Group Meeting #2

October interim votes and interim committee meetings

- 10/11 R1617 DHP Working Group Meeting #3
- 9/30-10/14 C1663: C&I (non- SBEA) Process Eval. One pager Approved - 3 votes in favor - \$700K budget, with no add-ons. (O'Connor 9/30, Gorthala 9/30; Dornbos 10/14).

November interim votes and interim committee meetings

- 11/2 R1617 DHP Working Group Meeting #4
- 11/4 SERA Team July / Aug invoice approved 3 votes (Melley, O'Connor, Gorthala 11/4)