Energy Efficiency and Sustainable Energy Board ENERGY EFFICIENCY RESOURCE STANDARD (EERS) COMMITTEE

Draft Minutes of the February 3, 2019 Meeting. Hearing Room A, Public Utilities Commission, Concord

Committee Members Present: Eric Stanley (Liberty Utilities), Cindy Carroll (Unitil) on phone, Don Kreis (Office of the Consumer Advocate), Kate Peters (Eversource), Ryan Clouthier (Southern New Hampshire Services), Tonia Chase (BIA) on phone, Matt Siska (GDS Associates), Carol Woods (NH Electric Cooperative); Madeleine Mineau (CENH); Raymond Burke (NHLA).

Others present: Liz Nixon, Paul Dexter, Jacqueline Trottier, Jay Dudley, (all from the Public Utilities Commission Staff); Christa Shute (Office of the Consumer Advocate), Phil Mosenthal (Optimal Energy on behalf of OCA on phone); Emily Levin / Christine Donovan on phone (VEIC, consultants to EERS Committee); Mary Downes (Unitil); James Butler and Riley Hastings (Eversource). Tom Palmer on phone (Unitil); Steve Tower (NHLA).

- 1) In his capacity as chair of the committee, Don Kreis called the meeting to order at 1:15 p.m.
- 2) Approval of January 13, 2019 minutes on the motion of Ryan Cloutier, seconded by Matt Siska. Minutes approved by unanimous vote with one abstention.

3) Utility presentation and discussion: planning scenarios.

Presentation slides are incorporated by reference.

The program administrators (i.e., the utilities) indicated that they need to start modeling and are seeking additional discussion so they can incorporate as much feedback as possible into the plan development, as they work to meet the April 1, deadline for the circulation of the initial draft of the 2021-2023 triennial plan.

Cost per kWh and MMBtu Savings.

In a deep dive with VEIC and the program administrators the issue of cost per kWh as higher than surrounding states was addressed. They found it was difficult to create an apples to apples comparison with other states because there is more fuel-neutral work that creates higher MMBtu savings in New Hampshire. In the planning scenarios there is an increase in fuel savings because there is a decrease in lighting. The group should consider how to reflect MMBtu savings in the programs and goals.

PUC Staff raised a concern about the increase in MMBtu savings indicating they were interested in maintaining the 55 percent cap on fuel neutral savings. Kate Peters of Eversource indicated that she believes the planning scenarios maintain the 55 percent but they are not sure until they do the detailed plan at what point they will be reaching the 55 percent line. Carol Wood of the NH Electric Co-op indicated that they are very close to the line because 60 percent of their load is residential. The cap is in the electric program and is based on a PUC order and was reconfirmed in the P&I working group. It is calculated by converting all of the savings into the same unit measure.

In Vermont, all of the RGGI and forward capacity market (FCM) funds are used for thermal efficiency. Legislative pushes are being made for New Hampshire to spend at least 40% of the RGGI funds on thermal efficiency. Even though that is only approximately another five million dollars that is not insignificant when you consider that Liberty's budget for efficiency is six million dollars.

A request was made to understand the percent of spend that results in MMBtu savings and how that compares to the FCM and RGGI funds that are used. The goal is to create a sanity check that is somewhat comparable to the boundaries of the Vermont program. The question is whether MMBtu savings might be tied to non-SBC funding.

A point was made that one potential advantage of changing from an SBC rate that is the same for residential and commercial is that increasing the C&I SBC to ramp up the electric savings without having to ramp up the residential that results in the additional MMBtu savings. There is existing precedent on the gas side for different rates between residential and nonresidential. If the tie is broken then the question becomes one of reasonableness for spending more.

Rate of growth and pacing to achieve goals.

The program administrators indicated they are trying to decide what the pacing should be for achieving the savings goals in the 2021-2023 plan. The question is whether there is a level set from year to year or whether the goals should be cumulative year over year. The program administrators indicated they are considering an approach that would capture more of the remaining available lighting savings in the first year and allowing the more expensive non-lighting measures to ramp up over the ensuing years., but They suggested this would result in a significant budget increase the first year of around 50 percent but then result in smaller increases of four to six percent in later years. However, these numbers were then questioned and discussed because the early increase would be due to increasing lighting – a lower cost measure. This question was not resolved..

These high level projections were based on 2020 measure costs with some assumptions built in for increase in cost over time, the experience in other states, and a decrease in lighting for commercial to zero by 2023. Some of the reduction in savings has to do with overall market changes, market activity and the codes promulgated at the federal level. In addition, the amount of savings that can be claimed for each project is diminishing, particularly in lighting. Each year measure lives change because the base line is increasing in efficiency as the codes get stricter and the time they can buy inefficient lighting is getting shorter. The EM&V Working Group is looking at measure lives for each measure.

The current projections are very conservative on lighting. The program administrators requested other stakeholders to share thoughts and feedback on reincorporating more lighting measures in the next few years. They were also looking for feedback on whether looking for sustained savings or increased savings and the associated budget costs.

There was a discussion about different ways to do cost recovery to make budget increases more tolerable such as amortization of costs. There were some concerns expressed about the additional carrying costs associated with such an approach to cost recovery by the program administrators. The counter point was that short term debt costs are very low currently. Emily of Levin VEIC and Phil Mosenthal of Optimal planned to have a further discussion offline regarding the pros and cons of amortization.

Committee members asked for energy efficiency spending per capita comparisons. One request was for the amount of money spent in New Hampshire on energy efficiency either per capita or per meter. According to Matt Siska, an ACEEE report on 2018 electric efficiency spending indicated that New Hampshire has the 15th highest cost per capita in the nation – spending 35.2 million or \$26 per capita. Massachusetts was at \$83. Vermont was at \$99.

Another request was for the amount of money spent per capita of low income households.

The program administrators indicated that the Eversource portion of the SBC would go up to just over a penny in 2022 under the "Scenario 2" option. The current rate is \$00054.

Staff expressed some concern for the increase in budgets, calling the sustained increases of 35 percent a year in Scenario 2 "alarming."

OCA indicated that its reaction was the opposite of staff: the potential savings goals of 1.3, 1.5, and 1.7 annually were disappointing and that something closer to 2 for 2023 would be doable. The OCA pointed out that although there may be significant budget increases, energy efficiency is still cheaper than the alternatives, is good public policy, and is a means of fighting climate change.

Tonia Chase, from the perspective of a manufacturer, expressed concern about the impact of the SBC on manufacturers, sharing that impact should temper the speed of execution.

Lighting

Emily of VEIC expressed that it is likely the New Hampshire lighting market is less mature than that of other states because the programs have been smaller. She noted that even in some leading states there is an active discussion about whether they are exiting the residential lighting market too quickly. She suggested that the program administrators should engage in lighting through 2021 to capture as much cost effective savings to mitigate some of the budget impacts. This will help phase in some of the other more costly budget items over the following years.

This discussion left some committee members confused in light of the apparent contradiction between the idea that lighting can mitigate budget impacts with Kate's comments that flipping the savings percentage to 1.7 percent in year one by putting more lighting in the first year would create a 50 percent increase in budget.

Other committee members expressed support for continuing lighting in 2021. There were comments that there will be huge opportunity in the commercial sector over the next three years because LED lighting is very good and there should be a massive shift over retrofitting lighting over the next 3-5 years that won't start tailing off for more than three years. Non-

utility committee members also recognized that the cost to achieve savings is increasing – not just in rebates but also in labor costs.

Matt Siska observed that lighting for the C&I sector presents an opportunity to create ongoing engagement with end users around the bigger picture of energy efficiency.

Madeleine Mineau said outdoor lighting was an area that could benefit from different tariffs so that rebate dollars would not be needed to make them cost effective.

Demand Response and Pilots

The goal was to get a sense of how interested people are in including a portion of the budget for pilot-type initiatives and where funding for active (as opposed to passive) demand response fits. Staff indicated it was still not convinced that demand response should be paid for through the SBC.

Emily commented that this subject probably needs a more in-depth discussion in the future. She said she was looking for initial comments on whether a portion of the budget should be set aside with details regarding specifics of what goes in that portion of the budget to be fleshed out later.

Kate Peters noted that in Massachusetts demand response is 2, 3, and 4 percent of the budget across the three years. In Vermont they set aside 2 to 2.5 percent for pilots, innovation, and new technology. There active demand management budget is on top of that. VEIC is seeing an emerging trend toward having a dedicated portion of the budget for innovation and emerging technology – especially for the larger utilities.

4) **Program administrator presentation and discussion: proposed three-year plan and budget process.**

Presentation slides are incorporated by reference.

The presentation discussed the advantages of a three-year plan as well as issues concerning goals, budget, funding, budget commitments, performance incentives, reporting, and modifications and notifications.

The priority of a three year plan is important to participants on the ground such as the contractors, and the consumers. The program administrators are trying to manage to not only what was spent versus planned but also what was collected versus planned. So there has been an annual reconciliation process for each utility. As the budgets grow, the impact of an over or under collection can become more significant. Thus, according to the program administrators, with budget growth it is time to consider splitting the SBC rate. Then each utility could refund to ratepayers or collect from ratepayers according to how that utilities budget for spending and collections matched the actual.

Details would need to be discussed regarding when the adjustment is made and whether it coincides with other rate adjustments or after plan is approved. Recommendations that it be timed to coincide with rate reconciliations.

PUC staff supports exploring the three year plan but there are many details that have to be addressed. They generally support the efficiency and benefit it could provide. The PUC also supports exploring a differentiated SBC rate but support for the concept itself will depend on the details.

Funding options that the program administrators were contemplating include (1) each utility filing an SBC rate to meet that utility's budget; (2) each utility filing an SBC rate for the both the residential and C&I sector, or (3) a single SBC rate applies statewide but there is an EERF – energy efficiency reconciling factor – that would reconcile the SBC rate within the utility according to the over or under collection.

Currently the program administrators have to decide which utility is going to meet each portion of the goal with the budget that they have. This prevents the utility from tailoring deployment to the utility's market. Allowing the SBC to be different for residential and C&I sectors means that the C&I budget can grow but then the residential must grow – then that growth results in higher MMBTu's which could potentially hit up against the 55 percent maximum. Currently each utility spends different amounts on C&I because it is based on the share of sales and not based on the potential in the market. Each sector funds their own programs after the low income funds are allocated. The utilities are contemplating the ability to increase the amount of revenue from C&I in order to spend on C&I so that effectively they would collect more to spend more from that cost effective sector.

In reality there are already different SBC rates because the lost revenue is added to the energy efficiency portion of the SBC.

There was an interest expressed in looking at the per capita spending on low income programs for the low income population.

There was an interest in including in the plan the stakeholder planning process for the 2023 planning process for 2024 to 2027.

It was recognized that a large bulk of the work seems to happen in working groups and quarterly meetings haven't been conducive to meaningful discussions. The response was that without an annual EERS docket there would be more capacity to create more meaningful discussion of the quarterly reports.

5) VEIC report-out from in-depth working sessions with utilities

The in-depth working sessions with VEIC and the utilities have helped jumpstart the planning process. In general the direction from the utilities look good. There are bigger picture themes identified in the VEIC slides for the NH Saves working sessions to work on. This issue will be discussed in greater detail in upcoming meetings.

Workforce development was raised as an important issue to be discussed at some point in the process. The utilities may already include this type of expense in their budgeting so it may be an topic that can wait until later. But there was general consensus that there is value in this group developing some thoughts on this issue. The state needs a leader on this process.

6) The meeting was adjourned at 4:15.

Energy Efficiency and Sustainable Energy Board ENERGY EFFICIENCY RESOURCE STANDARD (EERS) COMMITTEE

Draft Minutes of the February 10, 2020 Meeting. Hearing Room A, Public Utilities Commission, Concord

Committee Members Present: Eric Stanley (Liberty Utilities), Cindy Carroll (Unitil), Don Kreis (Office of the Consumer Advocate), Kate Peters (Eversource), Raymond Burke (NHLA), Ryan Clouthier (Southern New Hampshire Services), Tonia Chase (BIA) on phone, Matt Siska (GDS Associates), Carol Woods (NH Electric Cooperative), Becky Ohler (Department of Environmental Services), Jeff Marks (Acadia Center); David Borden (New Castle Energy Committee), Madeleine Mineau, ex officio as EESE Board Chair (Clean Energy New Hampshire), Tom Erwin (CLF).

Others present: Liz Nixon, Paul Dexter, Jacqueline Trottier, Jay Dudley, Stephen Eckberg (all from the Public Utilities Commission Staff); Christa Shute (Office of the Consumer Advocate), Phil Mosenthal (Optimal Energy on behalf of OCA) on phone; Emily Levin / Christine Donovan (VEIC, consultant to EERS Committee); Mary Downes (Unitil); Mark Lemenager, Jessica Chiavara, Brandy Chambers, and James Butler (all from Eversource), Steve Tower (NHLA) on phone.

- 1) In his capacity as chair of the committee, Don Kreis called the meeting to order at 1:01 p.m.
- 2) Approval of February 03, 2020 minutes on the motion of Eric Stanley, the second of Ryan Clouthier. Corrections included changing SBC rate on page 3 from \$.0054 to \$.00528 and eliminating the projection by program administrators of how much the SBC rate would go up in 2022. Minutes approved by unanimous vote with one abstention.
- 3) VEIC provided a review of where the EERS committee is in the process. This included preliminary inputs to utilities by February 21st for use in developing the plan for April 1st. VEIC will be reporting out on the in-depth working sessions with the utilities at the March 2nd meeting including some of the program level details and issues such as workforce development and cost effectiveness.
- 4) Committee input and discussion: policy topics to guide utility planning
- *a)* Further input on planning scenarios

The program administrators stated that to meet the April 1st deadline they need to pick something to start planning from. Based on the concerns expressed by PUC staff at the previous meeting they are considering moving from a 35 percent increase to 20 percent year over year budget increase for the electric program. Then the program administrators can do a dive into the actual modeling to see how much savings can be achieved with that level of budget increase. The program administrators also need to understand what lighting assumptions to use and shared that there is additional information coming from Massachusetts studies that could have an impact on that decision.

The gas program remains at an 11 percent year over year budget increase.

Responses to moving from a 35 percent year over year increase to 20 percent year over year:

- Tonia Chase (BIA) indicated that manufacturing portion of BIA is concerned about 35 percent increase because the electric bills are so high it means a real increase in expenses.
- Don Kreis stated the Office of the Consumer Advocate (OCA) takes "all cost effective energy" seriously.
- Tom Irwin of Conservation Law Foundation agreed that the utility Scenario 2 does not feel ambitious enough and needs to be more aggressive.
- Carol Woods from New Hampshire Electric Coop indicated she believes the goal of all cost effective energy efficiency was a long term secondary goal, where the primary goal is to meet a specified percentage of sales.
- Christine Donovan of VEIC shared that it is best practice in the energy space today to strive to achieve any energy efficiency that is less expensive than the alternative generated energy because any time a cost effective option is available it results in lowering costs to society, for both residents and businesses. A best practice is to do as much as one can possible do to achieve any and all efficiency. Getting into the "how much I pay" discussion takes one down a rabbit hole. Tom Irwin from Conservation Law Foundation (CLF) supports that view. Matt Siska supports all cost effective energy efficiency. Madeleine Mineau (CENH) supports doing as much as possible if displacing units of energy is cheaper through efficiency.
- Jeff Marks from the Acadia Center acknowledged that his organization has not been as active in New Hampshire lately but are turning focus toward New Hampshire. They support more aggressive savings goals and intend to look at the 2 percent savings goal and come back with recommendations.
- Ray Burke of NHLA indicated they would also be in favor of being as ambitious as reasonably can since there are thousands of low-income families still on a wait list for the current program that we can't serve. In review of 2019, from a simplistic view, is that the goals were not ambitious enough because they were achieved for less than originally planned.
- There was a discussion regarding the **Granite State cost test (GST)** and the secondary utility test. Arguably if it passes the GST then it is a prudent investment of funds. There was confusion about how the GST applies to unregulated fossil fuel savings being generated from the electric budgets. Counting that savings is why the GST is used as the primary test instead of the secondary utility cost test. Madeleine Mineau recommended simple metrics to make the benefit cost test less of a big black box rather than saying "trust us".
- There was a discussion regarding the confusion regarding the **cost to achieve a kwh saved** is not an accurate reflection because there are cost of fuel savings that do not show up on the kwh savings but do show up on the cost side. Phil Mosenthal indicated that in some places the budget is allocated based on where the savings come from. There was clarification that the \$0.88 per kwh number is a dollar per *annual* kwh savings if you were to compare it to what it would cost to generate electricity you would need to use the lifetime savings rather than the annual so the cost would be closer to \$0.08 per kwh. The bottom line is that there needs to be a better job done at explaining this to the legislature, public etc.
- Matt Siska from GDS Associates asked to mine down on the PUC comment from the previous meeting that the 35 percent increase is alarming so as to better understand the concern. Paul Dexter replied that they are concerned that the budget increase may not

correspond to the rate increase. They cited page 8 of the Settlement Agreement which discusses balancing the goal of capturing more cost effective efficiency with the goal of gradually increasing the cost while minimizing impact of rate payers. The concern is that when you compound the rates get high. They signed page 52 of the commission order to consider the impact of funding to the bill – the bill impact calculations do not take into account customer savings. Couple pages later – in approving as proposed we are mindful of and don't take lightly the increase in customer rates. This is what is guiding us. The cost is immediate and the savings are long term. The alarm bells went off when we heard a statement that it would hit one cent per kWh. That is going to gain attention since at the last hearing the commissioners asked for lifetime kwh by utility and received a range from \$0.037 to \$0.06 with an average of \$0.0394. (Item 28 in the record requires under 17-136). The PUC also acknowledged that money was set aside to do rate and bill impact study analysis to take a look at this difference between short and long term and the differences between participants and non-participants. The PUC commented that perhaps with that data it would be less alarming – but that at this point they do not have the data.

- Emily from VEIC identified the connection to program design the difference between a rate payer and the non-participant. She noted that a conversation important in some states is to make sure the program offering is designed in a way to make sure that wide spread participation can be achieved. In Maryland they call it the quick home energy check up where someone comes in and directly installs low cost energy savings measures like LED's water savings devices, weather stripping to be about equivalent in value to their SBC charge. In NH on residential side not sure how broad the programs are but a lot of them seem designed to be pretty deep. Programs design that make the programs more accessible so that a higher percentage can participate may address some of the issue. Kate of Eversource supported this concept and indicated that three years of the SBC could be made up by installing 6 LED lights. This is another type of contextual that would be helpful for the discussion and explanation to the commission and the public.
- Phil Mosenthal of Optimal brought up **amortization**. People are interested in aggressive savings but concerned about rate impacts. Amortization provides a way to have both. Addressing short term rate impacts is important, especially since energy efficiency is cheaper than energy generation then moving to amortization means costs would go down with increased spending. The costs can be kept down by amortizing using the utilities short term cost of debt rather than the rate of return for share holder earnings. Could still have shareholder earnings based on performance incentives. The time frame would be the weighted average measure life or roughly ten years. Using amortization can make it harder to cut a program because most of the costs are paying back what you already spent so just stopping programs doesn't help you that much.
- Don at the OCA indicated that the OCA introduced the idea of amortization to get at the problem of cost incurred now that are paid back over the lifetime of an energy efficiency measure and therefore putting it on par with other utility investments. He asked if other parties are interested.
- Tonia (BIA) said yes we are very interested in that.
- Kate of Eversource indicated that while not an expert, her old boss looked into it and concluded that it was more expensive for customers over time. Phil at Optimal responded that interest rates are fairly low compared to customer discount rates and time value of money.

- Brian of the PUC identified a Maryland report from April 2019 was helpful in review of the issues. They used five year periods and not sure of what they gave the utilities for weighted cost of capital but found it a helpful read for the advantages and disadvantages.
- Emily confirmed that the big difference is that in Maryland the utilities are earning the rate of return so cost of capital plus return on equity they don't separately have a performance structure so earning is not tied to the performance. Another sticking point in Maryland is that utilities earn that extra payment on all the costs of the portfolio including administration and EM&V. Could consider only amortizing just the measures.
- Ray of NHLA commented that last meeting the committee discussed the idea of changing things so each utility could set a different SBC rate, potentially by sector. He asked how the idea compares to the amortization idea and how determine which provides a better result of if a combination of those is possible. He opined that he needed more information to be able to say one way or the other.
- It was discussed that the rate and bill impact tool would be done soon and might be able to provide additional information. Would need to see if the model can accommodate amortization.
- Acadia indicated that we should strive to have the most ambition in gas savings as well.

b) Sector balance between Residential and C&I

- Should utilities be tied together to same rate? Should sectors be tied together to same rate?
- The previous meeting indicated a general consensus that it would be ok to have different SBC rates per utility.
- There was a concern about setting a different SBC rate by sector for electric and a general consensus that for this plan there would not be a different rate by sector. The LDAC for the gas program does have a different rate by sector.

c) Level of fuel-neutral savings in the portfolio

- Fuel neutral means using electric funds for oil, propane and wood. HPwES, HEA, new construction and municipal are all programs that due this. The issue is that the performance incentive calculation creates a threshold where if all the energy savings are converted into the same unit of measure then 55 percent of those savings must come from electric savings to avoid a penalty in the performance incentive. In the December 2019 B/C Order the commission noted that threshold again. The 55 percent number came from the P&I working groups in 2013 when the home performance program became fuel neutral. Some felt the number is a bit arbitrary.
- There was a discussion about the conversion factors used. There are two fundamental ways to convert kwh to energy equivalents: 1) it can be done on a site basis where the number of mmbtu's that would get in a space by running it through an electric resistance space heater or a conversion factor of 3.41 or 2) going back to the actual source of the energy where electricity is not generating and transmitting at 100% efficiency. There is a compelling argument that a source btu value would make a lot more sense.
- The big challenge is that as measure lives like lighting get shorter it becomes more difficult to keep the 55 percent. Utilities with higher residential accounts such as NHEC are bumping up against this issue.
- The other issue is that there are additional fuel neutral savings opportunities that are going untapped such as small businesses with oil and propane that are not currently eligible. In

other words, there is a lot of potential to do even more fuel neutral savings if they were not already bumping up to the threshold.

- The question was posed whether folks place a higher value on keeping electric dollars to electric savings, or fuel neutral savings.
- Becky Ohler looking at the focus on this program at consistent basis at legislature we need to be cautious about having the SBC paying for more fuel neutral programs in an effort to pay attention to what could sink the program overall.
- Paul from PUC indicated that while staff sees the December commission order as a very recent reaffirmation of the 55 percent that it is not binding on the next triennium or the order would have said that.
- Christine indicated that new information may change Commission opinion. Don concurred that the December order was not the result of a litigated issue supported by a body of evidence so it should not be considered binding.
- There was a discussion about the difficulties in splitting out the savings per kwh versus mmbtu. Some utilities track at the project level rather than the measure level and the same dollars are attributed to both. However, they do measure the different benefits so could just allocate the cost proportional to the benefit. But there are also other costs such as weatherization and marketing that are difficult to allocate. The other concern was the residential lighting issue. If the SBC was split by sector then the 55% threshold could be navigated.
- Emily at VEIC noted that it is worth considering that some residential households currently saving on fuel may in the future convert to electric heat pumps etc and then those fuel neutral savings are actually electric savings.
- The consensus was that there was interest in finding the appropriate balance. The recommendation was for the utilities to look at it and consider switching to a source based conversion.
- Emily at VEIC commented how striking it is that so much of the portfolio benefit is not directly part of the goal framework the program is delivering meaningful benefits that don't show up anywhere so the costs look high. One solution might be a fossil fuel savings goal. The utilities responded that it would make it difficult to prioritize budget if you had both goals. Other parties commented that even if not a goal it is important to show the mmbtu savings as well so that the budget numbers are put in context of not just these electric savings but also these mmbtu savings.
- The consensus seems to be to set a metric for the mmbtu savings rather than a goal.

d) Inclusion of energy optimization/fuel switching

- The December 30th order from the Commission indicated a willingness to entertain a pilot that could be tested for effectiveness. They specified the importance of investigating load factor improvement. In developing the pilot think about statistical significance but also look to neighboring states to see what might be borrowed.
- One challenges is figuring out what the pilot is testing for and how incentivizing the program. Data collection on how much fossil fuel savings are being saved and how much load growth is being caused were identified as potentially important. ISO is also asking about the extra load from heat pumps. A suggestion was made to consider a pilot with heat pumps with integrated thermal storage. A reminder was provided that it is important to link this to or consider weatherization.

- Ryan from SNHS indicated that low-income would be on board with a pilot because many of the homes have old steam systems and this would be a perfect opportunity, but currently it is difficult to do without finding another funding source. Emily commented that if the energy optimization pilot allowed them to count all fuel savings it would open the program up for low-income.
- There was additional support for a pilot over a study because it provides more realistic on the ground information.

e) Inclusion of active demand management (ADM)

- ADM means more load shifting and flexibility along demand response in addition to the passive load reduction provide by energy efficiency. The question is whether ADM should be included in SBC funded electric energy efficiency plans.
- Emily at VEIC indicated there is general agreement that there is value in coordinating energy efficiency and active demand management from a customer perspective commercial building or industrial facility can look at energy efficiency but also at ways they can shift the loads. There is a lot of synergy with the energy efficiency programs and the demand management opportunities. There is a sense between VEIC and the utilities that there is a lot of benefit in a coordinated approach regardless of how it is funded.
- Kate from Eversource indicated that they do not want to lose momentum. The utilities are open to a different funding source. In Massachusetts, ADM is looking to save almost 90 MW, NH is looking at 8 MW. It is important to do because the other states are doing it.
- Brian at the PUC indicated there was a program approximately 10 years ago run by utilities and built into ISO that would be worth looking at how it was funded. Perhaps transmission rates based on RNS cost avoidance.
- Emily discussed the pros and cons of ways to fund the program. If utility funded through a rate case then one con is that it becomes utility specific and lose uniform across the state. The other con is that not coordinated with EE programs as well and could create an incentive for utility to own it. Where if in the EE program it would support a more vendor and market neutral approach. The important part of the coordination is on the behind the meter side because it is really about how serving the customer
- Madeleine at CENH supports robust active demand management in the plan. They support the free market approach paying for the performance of services provided rather than the utility owning them.
- Don from the OCA is not convinced yet it should be part of the SBC and believes there is an argument to be made to engage in ADM as part of the distribution revenue requirement. The concern is that if in the SBC it may give the utilities the ability to distance themselves from responsibility to incorporate ADM as part of their distribution service.
- Emily at VEIC reminded folks that the key is identifying the structure that is most likely to support continued ADM in New Hampshire because many other states are ramping up aggressively and, because of the way regional costs are allocated, New Hampshire could risk carrying a bigger share of cost if it doesn't keep up with its neighbors.
- Liz from the PUC believes there are synergies in marketing them together not convinced yet that it should be part of the SBC funding in terms of sharing the risk. If under the SBC then there should be its own incentive so the utility is only awarded if they actually meet the goal of reducing peak. She did not have another funding source idea.
- Phil from Optimal asked whether people generally agree that it should be funded in some

way by the ratepayers – because if the answer is yes - does it matter where it comes from?

- Could it, like energy efficiency and the lost revenue recovery mechanism, be a subset of the SBC labeled ADM with its own performance incentive / revenue recovery mechanism?
- David asked if it could it be included but wither away either as it becomes very useful to utilities or just part of business as usual. Cindy from Unitil supported the idea of keeping it in EE while still nascent technology, until they understand more about how to scale it and then it could move.
- Phil do think there is incentive to integrate it smart thermostats promote and rate for EE but can bundle a DR program at the same time.
- Mary evaluations to date DR is different animal from EE and difficult to plan for a future peak event. The plan and the actual is less a function of utilities good faith effort to do it versus Still in this trying it out and figuring it out. Difficult to model.
- Emily at VEIC indicated that if it were to be included it wouldn't have to be at pilot scale because there is decent experience in MA the question is more around predictability. She also indicated that it can become increasingly important with the penetration of renewables and mitigating the duck curve.
- Issues with a pilot that looks at 1-3 years is that the market has really indicated they need a five year commitment.
- *f) Dedicated budget for pilots / emerging tech*
 - In Scenario 2 there is an assumption of 2-4 percent placeholder for DR and pilots. The question is whether these should be embedded in the core or carved out and dedicated.
 - Utilities indicated that emerging technologies would be more practical within the program and be budgeted accordingly even if they may not have fully defined what those opportunities are so a bit more flexibility to test new widgets. Would be ok to have a certain amount of money to do that kind of investigation as the opportunities arise. In contrast a new concept all together such as energy optimization warrants a pilot.
 - Emily from VEIC indicated that in regard to emerging technologies through their review of programs nationally they are strong advocates for a reasonable degree of flexibility for program administrators, especially now as markets are changing rapidly. They discourage the need for an approval process and promote a higher degree of flexibility for that kind of thing versus energy optimization or geo targeting that would need more goals, and up front vetting and scrutiny.
 - There was a discussion regarding geo-targeting that included items that wouldn't screen, placing deeper incentives, and increased marketing costs.
 - Liz from the PUC was supportive of up to 4 percent for pilot flexibility. Important to identify what the pilot is trying to learn and to figure out if it can achieve the goals being set.

Next meeting is March 2nd. Meeting was adjourned at 4:09.