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STATE OF NEW HAMPSHIRE

PUBLIC UTILITIES COMMISSION

October 6, 2022 - 1:32 p.m.  
21 South Fruit Street  
Suite 10  
Concord, NH

*[Hearing also conducted via Webex]*

RE: **DE 19-197**  
**ELECTRIC AND NATURAL GAS UTILITIES:**  
**Development of a Statewide, Multi-Use**  
**Online Energy Data Platform.**  
**(Status Conference)**

**PRESENT:** Chairman Daniel C. Goldner, Presiding  
Commissioner Pradip K. Chattopadhyay  
  
Tracey Russo, Clerk  
Doreen Borden, PUC Hybrid Hearing Host

**APPEARANCES:** **Reptg. Public Service Company of**  
**New Hampshire d/b/a Eversource Energy:**  
Jessica A. Chiavara, Esq.  
Riley Hastings  
  
**Reptg. Unitil Energy Systems, Inc.,**  
**and Northern Utilities, Inc.:**  
Matthew J. Fossum, Esq.  
Justin Eisfeller  
Jeremy Haynes  
  
**Reptg. Liberty Utilities (Granite State**  
**Electric) Corp. and Liberty Utilities**  
**(EnergyNorth Natural Gas) Corp.:**  
Michael J. Sheehan, Esq.  
Missy Samenfeld

Court Reporter: Steven E. Patnaude, LCR No. 52

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**APPEARANCES:** *(C o n t i n u e d)*

**Reptg. the City of Lebanon and  
the Data Platform Governance  
Council:**  
Clifton Below, Assistant Mayor

**Reptg. Clean Energy NH:**  
Chris Skoglund, Dir./Energy Transition  
Ethan Goldman *(Resilient Edge)*

**Reptg. Mission:data Coalition:**  
Michael Murray, President

**Reptg. Residential Ratepayers:**  
Donald M. Kreis, Esq., Consumer Adv.  
Office of Consumer Advocate

**Reptg. New Hampshire Dept. of Energy:**  
Mary E. Schwarzer, Esq.  
*(Regulatory Support Division)*

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**I N D E X**

**PAGE NO.**

<b>INITIAL STATEMENT BY MR. FOSSUM</b>	10
<b>PRESENTATION BY MR. EISFELLER</b> <i>(Re: Proposed Schedule/Milestones)</i>	13, 31
<b>PRESENTATION BY MS. HASTINGS</b> <i>(Re: Dunsky Report)</i>	21
<b>QUESTIONS/COMMENTS BY:</b>	
Chairman Goldner	22, 25, 32
Cmsr. Chattopadhyay	24, 29, 33
<b>FURTHER COMMENTS BY MR. FOSSUM</b>	30, 33
<b>FINAL COMMENT BY CHAIRMAN GOLDNER</b> <i>(Re: Proposed Schedule/Milestones)</i>	37
<b>PRESENTATION BY MR. MURRAY</b> <i>(Re: Demonstration on Consent Process with navigation)</i>	39
<b>QUESTIONS <u>DURING</u> PRESENTATION BY:</b>	
Cmsr. Chattopadhyay	49
Chairman Goldner	51
<b>QUESTIONS <u>FOLLOWING</u> PRESENTATION BY:</b>	
Cmsr. Chattopadhyay	55, 59
Chairman Goldner	56, 62
<b>FURTHER COMMENTS/QUESTIONS BY:</b> <i>(Re: Maintenance/Modularity/Vendors)</i>	
Chairman Goldner	65, 71
Mr. Eisfeller	66, 68
Cmsr. Chattopadhyay	67
Mr. Goldman	69
Mr. Murray	71

**P R O C E E D I N G**

1  
2 CHAIRMAN GOLDNER: Okay. Good  
3 afternoon, everyone. I'm Chairman Goldner. I'm  
4 joined today by Commissioner Chattopadhyay.

5 We're here this afternoon in Docket DE  
6 19-197 for a status conference regarding the  
7 electric and gas utilities' development of a  
8 statewide, multi-use online energy data platform.  
9 The conference was requested by the Parties to  
10 present the customer interface, the API, which  
11 allows customers and third party users to  
12 register and to access and share data.

13 Also, at the parties' request, we will  
14 address three additional issues as time permits.  
15 One, the utilities' need for contracts with  
16 outside resources to develop the Cost/Benefit  
17 model; the closely related sole-source contract  
18 with Dunsy Energy Consulting, and, finally, an  
19 alternative approach to the sequence of  
20 deliverables required by the Commission in this  
21 docket.

22 So, let's take appearances, beginning  
23 with Eversource.

24 MS. CHIAVARA: Good afternoon -- good

1           afternoon -- should I just yell?

2                        *[Laughter.]*

3                        *(Referring to an issue with the*  
4                        *microphone.)*

5           MS. CHIAVARA:   Good afternoon.   Jessica  
6   Chiavara, counsel for Public Service Company of  
7   New Hampshire, doing business as Eversource  
8   Energy.   And I'm here with Riley Hastings today.

9                        CHAIRMAN GOLDNER:   Okay.   Thank you.  
10   And we'll move to UES and Northern.

11                      MR. FOSSUM:   Good afternoon,  
12   Commissioners.   Matthew Fossum, here for Unitil,  
13   UES and Northern.   With me at the front table  
14   here is Mr. Justin Eisfeller.   And, on the line,  
15   consistent with the Commission's grant, I think,  
16   two weeks ago, is Mr. Jeremy Haynes.

17                      CHAIRMAN GOLDNER:   Perfect.   Thank you.  
18   Liberty Utilities?

19                      MR. SHEEHAN:   Good afternoon.   Mike  
20   Sheehan, for the two Liberty entities, Granite  
21   State Electric and EnergyNorth Natural Gas.   And  
22   with me, and the Liberty representative on the  
23   Governance Council, is Missy Samenfeld.

24                      CHAIRMAN GOLDNER:   Very good.   The

1 Office of Consumer Advocate?

2 MR. KREIS: Good morning, Mr. Chairman,  
3 Commissioner. I'm Donald Kreis, the Consumer  
4 Advocate.

5 CHAIRMAN GOLDNER: All right. Very  
6 good. Is the City of Lebanon here? I see it is.

7 MR. BELOW: Yes. Clifton Below,  
8 Assistant Mayor, but also I am here as a member  
9 of the Governing -- Data Platform Governance  
10 Council.

11 CHAIRMAN GOLDNER: Very good. Clean  
12 Energy New Hampshire?

13 MR. SKOGLUND: Chris Skoglund, Director  
14 of Energy Transition with Clean Energy New  
15 Hampshire. And we will be represented, I  
16 believe, by Ethan Goldman, who should be  
17 appearing on the screen at some point.

18 MS. HASTINGS: He says he's getting a  
19 message that the meeting hasn't started.

20 MR. EISFELLER: He may have the wrong  
21 link.

22 MR. SKOGLUND: All right. I'll be  
23 doing some IT work in the background then.

24 CHAIRMAN GOLDNER: Very good. Thank

1           you, Mr. Skoglund.

2                       The New Hampshire Department of Energy?

3           MS. SCHWARZER: Yes. Excuse me, Mr.  
4           Chairman. I was wondering where my colleague is.  
5           Mary Schwarzer, here for the Department of  
6           Energy.

7                       CHAIRMAN GOLDNER: Okay. Very good. I  
8           also have "Community Choice Partners" on the  
9           list. Is there anyone here from Community Choice  
10          Partners?

11                      *[No indication given.]*

12                      CHAIRMAN GOLDNER: No. Is there anyone  
13          here from the Town of Hanover?

14                      *[No indication given.]*

15                      CHAIRMAN GOLDNER: No. And are there  
16          any -- is there anyone else here today that would  
17          like to participate in today's proceeding?

18                      *[No indication given.]*

19                      CHAIRMAN GOLDNER: Okay.

20                      MS. CHIAVARA: Mr. Chairman?

21                      CHAIRMAN GOLDNER: Yes.

22                      MS. CHIAVARA: Michael Murray, from  
23          Mission:data, is presenting, and he's also having  
24          access problems.

1                   CHAIRMAN GOLDNER: Okay. Right. Do we  
2 want to pause while we work through the access  
3 issues or would we like to steam boldly ahead for  
4 a little while until we need them, need him?  
5 It's your call.

6                   MR. FOSSUM: Well, Mr. Chairman, this  
7 is Matthew Fossum here. I think we had, as --  
8 I'll speak for a moment on behalf of the  
9 Governance Council, we had discussed sort of an  
10 order of activities for this afternoon that we  
11 thought was sensible. And that would actually  
12 put Mr. Murray and the need for his direct  
13 involvement farther on the schedule.

14                   So, I think we can move forward, and  
15 hope that Mr. Murray will connect soon and be  
16 available to us when the time comes.

17                   CHAIRMAN GOLDNER: Okay. Okay, that  
18 sound good.

19                   So, I think our plan was to start off  
20 with the demonstration, and then move to the  
21 three questions at the end of the hearing. And,  
22 Mr. Fossum, I think you have some advice on how  
23 to proceed with the demonstration?

24                   MR. FOSSUM: I guess my advice would be



1 to not do it in that order. So -- but, by way of  
2 a little bit of table-setting, so, this, you  
3 know, goes back to where the Commission approved  
4 the Settlement and the creation of the Governance  
5 Council, and, at the time, had a number of  
6 deliverables in there, and the request for a  
7 status conference at the end of this year.

8 But that was at a time before we had  
9 done our sort of detailed work and had spent some  
10 time on a few things. The Governance Council has  
11 spent a tremendous amount of time on a number of  
12 deliverables since then. And, so, there's a need  
13 to adjust.

14 One item, as you mentioned, that we  
15 spent some time on is preparing this working  
16 model, and we had asked for this opportunity to  
17 present that, and that's what Mr. Murray would be  
18 presenting. And, so, -- but our thought had been  
19 that, hopefully, we can address the other issues  
20 up front, and fairly swiftly, and then spend some  
21 time on the working model.

22 And, so, that would be our proposal, is  
23 to address the three sort of what I would call  
24 "additional issues" that were added most

1 recently, and then spend the remainder of the  
2 time, or however long is necessary, addressing  
3 the working model that the Commission had  
4 requested to see.

5 CHAIRMAN GOLDNER: And I think that  
6 would be fine. That would be fine.

7 So, if you'd like to lead, Attorney  
8 Fossum, that would be great. I would just say  
9 that, in terms of our, you know, preparation for  
10 the meeting, would you agree that Item 1 and 2 is  
11 really the same thing or are those two different  
12 items?

13 MR. FOSSUM: I believe they're related,  
14 yes. They are very closely related. And the  
15 Venn diagram on them is almost a complete circle.

16 CHAIRMAN GOLDNER: Very good. So, yes.  
17 So, I think it would be great to hear more about  
18 that. We have some questions on this "100K"  
19 piece of it, and, you know, if the Parties have  
20 had any discussions with Dunsky, *et cetera*. But,  
21 please proceed, and we'll just ask questions as  
22 we go.

23 MR. FOSSUM: Certainly. So, actually,  
24 hopefully, I won't have to do a whole lot more

1 talking, and you'll hear from people who are much  
2 more knowledgable about these sorts of things  
3 than I am.

4 I'll set the table very quickly, is  
5 that one of the items that had been in the  
6 Commission's order was a requirement to inform  
7 the Commission when outside resources were going  
8 to be procured and when outside spending was  
9 going to be done. So, that is sort of the basis  
10 of that request regarding Dunsky.

11 The other item on the table for today  
12 is the alternate scheduling. Now that the  
13 Governance Council has had time to really get  
14 into the requirements and needs of the Platform,  
15 there's been an opportunity to map out all the  
16 various requirements, which things are dependent  
17 upon others, both in terms of their schedules and  
18 in terms of their actual ability to complete  
19 them.

20 So, with that, I would actually turn to  
21 Mr. Eisfeller here, who has been sort of leading  
22 the Governance Council, and who can walk us  
23 through, I think fairly quickly, the proposed --  
24 I don't know if it's proposed amendments to his

1 schedule or the proposed schedule for creating  
2 and delivering the Platform, as well as providing  
3 the information about the various milestones that  
4 need to be met along the way.

5 And that will be accompanied by the  
6 presentation that will be on the screen.

7 CHAIRMAN GOLDNER: Okay. Very good.

8 MR. GOLDMAN: Excuse me, can I --

9 CHAIRMAN GOLDNER: Go ahead.

10 MR. GOLDMAN: May I interject? This is  
11 Ethan Goldman. I've been -- I had some trouble  
12 getting into the meeting with the new  
13 registration link that was sent around this  
14 morning, and was able to get in with the old  
15 registration link. Michael Murray has been  
16 trying to get in for a while, but hasn't been  
17 able to get either of the links to work, it just  
18 says "Waiting for Host."

19 I don't know if there's anyone  
20 available at the meeting who can help him get the  
21 right link, so that he can join while this other  
22 presentation is taking place?

23 MS. RUSSO: Hi. We just resent him a  
24 new link. So, he should be able to join shortly.

1 MR. GOLDMAN: I'll let him know.

2 MS. RUSSO: Oh, and he is actually  
3 there.

4 MR. GOLDMAN: Perfect. Thank you.

5 MS. RUSSO: No -- yes, Michael Murray,  
6 right?

7 MR. GOLDMAN: Yes.

8 MS. RUSSO: Okay. Perfect. Thank you.

9 MR. GOLDMAN: Yes.

10 MR. EISFELLER: Okay. Thank you for  
11 allowing us some changes to the schedule. No pun  
12 intended.

13 So, just first, I have just three  
14 slides. The first couple slides just are on  
15 project management basics. And then, I have a  
16 high-level schedule that we can go through  
17 that -- and where I can highlight some changes,  
18 and the impacts on the various milestones  
19 referenced in the order.

20 So, first slide here is on "Project  
21 Structure". This is the structure that we use  
22 for our decision-making in the Project, we  
23 have -- representing the regulatory oversight of  
24 the Commission. So, there's an expectation in

1 the orders that we have this interaction with the  
2 Commission to keep them informed throughout.

3 The Steering Committee, the Governance  
4 Council is acting as a "steering committee". So,  
5 all decisions on daily progress on this Platform  
6 being made by the Steering Committee.

7 And then, we have various working teams  
8 and a project manager. Most of the work is being  
9 done by our Core Working Team and Technical  
10 Committees, and there are basically subcommittees  
11 on the Governance Council.

12 And then, we expect that we'll have  
13 several consultants that are helping us in this  
14 initial phase of the Project.

15 The Project Approach is basic project  
16 management. You know, we are now in the  
17 "Initiate/Plan" phase. We're moving towards the  
18 "Vendor Selection" phase. And then, further on,  
19 as we "Develop", "Test", and "Deploy" the system.  
20 And then, we would expect a post "Hypercare"  
21 period as well. So that we're following basic  
22 project management principles.

23 And then, lastly, the last slide I have  
24 here, and also a handout that I provided, so you

1 can hopefully see a little bit better some of the  
2 detail. There's quite a bit on this slide. So,  
3 I'm going to try to walk through it slowly. We  
4 may have to do it iteratively as well.

5 But, before I do that, I wanted to  
6 discuss several decisions that were made by the  
7 Governance Council that affect the schedule.

8 The first decision that was made was a  
9 decision to pursue a two-phase selection of  
10 vendor selection process. The first phase being  
11 an RFI process, a Request For Information  
12 process, where we solicit proposals and  
13 presentations by the vendors. And we're now  
14 working on that, that process right now in  
15 earnest. The idea was that that will help us  
16 inform the development, our design of the  
17 Platform, and provide us with some specifics on  
18 what may be available in the market.

19 The next big decision that was made,  
20 and I'll lump these all into one, was that the  
21 Third Party Use Survey, the RFP for the Back End  
22 Consultant Review would inform the Platform  
23 design. So, there's an expectation that the  
24 results we get from the survey, as well as the

1 discussion with the back end consultant, would  
2 provide some valuable input into the design and  
3 the RFP development. So, those are now, you  
4 know, basically, critical path elements of the  
5 development of the RFP for the Platform.

6 Those decisions, those three decisions,  
7 had the impact of pushing the schedule out quite  
8 a bit, as you can see here.

9 So, having said that, now I'll walk  
10 through each of the work streams. What you'll  
11 see here, and they're color-coded, are the  
12 various work streams that we are currently  
13 working on. There's other work streams as well.

14 The first one here being the "RFI for  
15 the Platform". The RFI has already been -- is in  
16 process right now. We've sent out an RFI to more  
17 than a dozen vendors, and have gotten back a  
18 series of questions from them. We're in the  
19 question-and-answer phase right now. And then,  
20 we expect to start scheduling demonstrations by  
21 the vendors that seem capable. That we hope to  
22 conclude those vendor demos by mid-November.

23 The next work stream presented here is  
24 the "Third Party Use Survey". The statement of



1 work for that is complete. We are now soliciting  
2 vendor proposals. We did not provide an RFP for  
3 that process. The expectation is that this, the  
4 cost of this survey is less than the threshold  
5 that we would expect in RFPs. So, we are  
6 soliciting proposals for that work right now.  
7 And, once we are ready to select a vendor, we  
8 would -- we plan on notifying the Commission, and  
9 you'll see that in red.

10 The other thing we tried to do to  
11 highlight on this schedule is any expected  
12 communications with the Commission is in red  
13 text. So, you'll see that throughout. And  
14 milestones that were referenced in the order,  
15 we've tried to indicate with an asterisk, a red  
16 asterisk. So, you'll see those in there, too.  
17 And I'll try to point them out as we go through  
18 this.

19 Also, in the Third Party Use Survey  
20 work stream is that, you know, hiring of the  
21 consultant, and performing the study. There's an  
22 expectation in the order that we would share that  
23 study with the Commission. So, that's the  
24 asterisk indicated there. And that is not likely

1 going to happen until February. You'll see the  
2 "February 22nd" date there. That's the estimate  
3 for that work to be complete.

4 Moving on to the RFP for the Back End  
5 Consultant, the next work stream, the RFP for  
6 that work is underway. We expect to have that  
7 done by early November. The order requires us to  
8 review that with the Commission. We expect that  
9 that will be ready for review in November. And  
10 then, we also expect that the Commission would  
11 provide some guidance or approval of that RFP  
12 before distribution. Oops. Okay. So, you'll  
13 notice that milestone in November.

14 Then, we'll process the RFP. The plan  
15 for processing the RFP is a very formal process.  
16 It's a 12-week process. Eversource will be  
17 leading that effort. That schedule is reflected  
18 here. And then, once we have processed that,  
19 part of the processing is the recommendation for  
20 a selection, the Governance Council will make  
21 that recommendation, and then we will notify the  
22 Commission of the selection.

23 And then, the work on that, that the  
24 consultant will perform, will continue from that

1 point forth. And, as I mentioned, that work  
2 would also inform the Platform RFP itself.

3 So, that leads us to the next work  
4 stream, which is the "RFP Platform" work stream.  
5 The work on that, on the RFP, has just started.  
6 We expect that RFP to be informed by those other  
7 work streams. And that, next year, in June, late  
8 May to June timeframe, that will be ready for  
9 presentation to the Commission, and the following  
10 approval of that RFP. And that will commence --  
11 after that, we'll commence the RFP processing,  
12 which is a 12-week process, which will lead to  
13 the next phase of the Project, which is the  
14 selection of the vendor, and moving on to  
15 decisions on whether we implement or not.

16 The last work stream presented here is  
17 the "Cost/Benefit Study". We've -- and I'll let  
18 Riley speak to that in detail, but that the  
19 proposal has already been developed, and  
20 discussions with Dunsky are underway. We are  
21 notifying the Commission today of that selection.  
22 We'll be working with Dunsky to update the model  
23 over a period of time, through January. We would  
24 expect that we would notify the Commission of the

1 model changes that were discussed in the order,  
2 and that are now reflected in the model. That  
3 would likely lead to a presentation in January,  
4 if so deemed appropriate.

5 And then, the work for that will  
6 continue on, but will not be complete until we  
7 have costs for the -- for the Platform. That's  
8 not expected until we finish the RFP processing  
9 for the Platform. So, you'll see that those are  
10 linked.

11 And then, once that report is done,  
12 there's an expectation that that report will be  
13 shared with the Commission. And that's the last  
14 milestone indicated.

15 So, you know, having presented this  
16 high-level schedule, we do have a detailed  
17 schedule behind this. This is just for  
18 presentation here. It's obvious that a status  
19 conference in December has its limitations as to  
20 what could be presented. And that, potentially,  
21 a different model might be more effective.

22 We did not come prepared to recommend a  
23 specific model. But, as you can see by the dates  
24 here, I think that the expectation is that a

1 majority of these milestones are expected to be  
2 presented at once at a status conference. We  
3 would generally recommend a status conference  
4 next May or early June.

5 Others on the call or in the room are  
6 welcome to elaborate, if I had missed anything?

7 *[No indication given.]*

8 MR. EISFELLER: Okay. Any questions?  
9 Does that make sense?

10 CHAIRMAN GOLDNER: So, this was -- was  
11 this intended to cover 1, 2, and 3, or just 3?

12 MR. EISFELLER: Just the schedule.

13 CHAIRMAN GOLDNER: Just the schedule,  
14 okay.

15 MR. EISFELLER: Okay. Next up would be  
16 Riley, to discuss the Dunsky report.

17 MS. HASTINGS: All right. Thank you.  
18 Riley Hastings, with Eversource. I have been  
19 leading our communications with Dunsky on this  
20 Cost/Benefit analysis.

21 As others have indicated, we've  
22 notified the Commission that we'd like to use  
23 outside resources, and, in addition to that,  
24 we're also looking to sole-source the Dunsky

1 Cost/Benefit analysis. And, because the  
2 utilities are not planning to conduct a  
3 competitive request for proposals, or RFP, we'd  
4 like to provide some justification on doing so,  
5 and ask the Commission to determine whether such  
6 a course of action is reasonable and prudent.

7 I have -- we did receive about an  
8 18-page proposal from them, with the "not to  
9 exceed \$100,000", and a proposed completion --

10 CHAIRMAN GOLDNER: Can I just pause you  
11 there?

12 MS. HASTINGS: Yes.

13 CHAIRMAN GOLDNER: In the filing, it  
14 said it was -- specifically, that it was "not a  
15 "not to exceed"." Is the contract "not to exceed  
16 100" or "not not to exceed 100"?

17 MS. HASTINGS: Not to exceed 100.

18 CHAIRMAN GOLDNER: So, there's a cap of  
19 100 on the proposal?

20 MS. HASTINGS: Right.

21 CHAIRMAN GOLDNER: Okay. Thank you.  
22 Yes, that was perhaps my misunderstanding, but I  
23 read the filing differently.

24 MS. HASTINGS: Okay.

1                   CHAIRMAN GOLDNER:  So that there's a  
2   cap of \$100,000 on the Dunsky Report proposal?

3                   MS. HASTINGS:  Correct.

4                   CHAIRMAN GOLDNER:  Okay.  Thank you.

5                   MS. HASTINGS:  Yes.  To conclude in  
6   February, you know, we'd like to -- we did a lot  
7   of research that we had presented previously on  
8   whether such a model existed, and Dunsky appears  
9   to be the only vender that's ever created a model  
10  or done an analysis of this type.  It's not --  
11  many other vendors have done studies for us, for  
12  example, in energy efficiency and the  
13  Cost/Benefit analysis.  But this study is very  
14  unique, in that it's not a, for example, a  
15  measure that's already been installed for years,  
16  like a lightbulb, or a refrigerator, where we've  
17  measured the energy savings, and we have a pretty  
18  good sense of what those savings are, and we have  
19  a, you know, an energy efficiency, an avoided  
20  cost study, that allocates the -- you know,  
21  calculates the benefits that go along with these  
22  savings.

23                   Because this is an enabling technology,  
24  there are a whole bunch of sets of assumptions

1 underlying their model, market adoption,  
2 assumptions, *et cetera*. And, because they're the  
3 only ones who have an existing model, we think  
4 that it would be considerably less expensive than  
5 if we tried to pursue this analysis with any  
6 other vendor.

7 CMSR. CHATTOPADHYAY: Chairman Goldner,  
8 can I?

9 CHAIRMAN GOLDNER: Please.

10 MS. HASTINGS: Sure.

11 CMSR. CHATTOPADHYAY: I'm going back to  
12 the letter that Eversource had filed, and I'm  
13 reading it exactly the way it says: "This  
14 estimate is not a "not to exceed" price." So,  
15 the letter had said that, but it also had pointed  
16 that "Dunsky has provided an initial estimate of  
17 100,000 to complete the required work."

18 What you are sharing here, right now,  
19 is that a more firmed up number, that's why  
20 you're now saying it's -- you know that it's not  
21 to exceed?

22 MS. HASTINGS: Yes. I mean, the  
23 language in the proposal says "The table below  
24 provides our best estimate of the effort and



1 costs required to conduct the research tasks  
2 described in this proposal. We would propose to  
3 conduct this work on a Time and Materials basis,  
4 with an upset limit of \$100,000, adjusting the  
5 scope and detail in the analysis and reporting to  
6 balance the budget and the Council's needs  
7 accordingly."

8 CMSR. CHATTOPADHYAY: Thank you.

9 MS. HASTINGS: And then, there are five  
10 tasks, with estimated hours, for \$100,000.

11 CMSR. CHATTOPADHYAY: Okay. Thanks.

12 CHAIRMAN GOLDNER: Thank you. Yes. We  
13 were confused by the filing if it was a cap or  
14 not a cap. So, you've clarified for us it's a  
15 cap.

16 I did want to clarify one other item on  
17 the Venn diagram that Attorney Fossum was  
18 referring to. So, it's \$100,000 or less for the  
19 benefit-to-cost model. I know this from the  
20 presentation there were a couple of other models  
21 that were needed, I think, or a couple of other  
22 sort of consulting efforts that were needed on  
23 the back end, and there was one other on the  
24 chart.

1           Has that been scoped out yet, in terms  
2           of the other consulting contracts? If you could  
3           go back to the prior slide to this one please?

4           I'm sorry, one more. First slide, I guess.

5           MR. EISFELLER: So, the "Back End  
6           Consultant is --

7           *[Court reporter interruption.]*

8           MR. EISFELLER: Sorry. The "Back End"  
9           Consultant indicated here is the back end  
10          consultant for the review, review of the back  
11          end. The "Third Party Survey" is the third party  
12          survey consultant that we're looking to select.  
13          So, those are one in the same. And then, the  
14          "Cost/Benefit Model" is Dunsky.

15          So, those are the consultants that are  
16          under review right now, are being considered.  
17          None of them have been selected or awarded the  
18          contract.

19          CHAIRMAN GOLDNER: Yes. And I think,  
20          Commissioner Chattopadhyay, please weigh in, it  
21          makes sense to us that, since Dunsky has done all  
22          the prior report -- or, the prior work,  
23          leveraging their work here, with a cap of  
24          100,000, we can see the logic of that proposal.

1 I do want to just kind of make sure I  
2 understand what's happening on the "Back End" and  
3 "Third Party Survey" piece. Those are not  
4 Dunsky, that's something different, and that you,  
5 today, you haven't scoped that out or have an  
6 estimate, you're just giving us a heads up that  
7 that's coming?

8 MR. EISFELLER: So, Jeremy, can go to  
9 the "Schedule" slide again? You'll see those  
10 same work streams for those selections here. The  
11 "3rd Party Use Survey", which is the "Third Party  
12 Consultant" referenced on the other slide, we  
13 would expect to notify the Commission of that  
14 selection in November. So, that process is  
15 underway. We're, you know, basically,  
16 interviewing consultants right now, asking them  
17 for proposals. We have one in-hand already. We  
18 have not selected any vendor yet.

19 CHAIRMAN GOLDNER: So, you have a  
20 scoping document?

21 MR. EISFELLER: Correct.

22 CHAIRMAN GOLDNER: They're giving you  
23 feedback on "We'll charge you 50K", "We'll charge  
24 you 75K"?

1 MR. EISFELLER: Correct.

2 CHAIRMAN GOLDNER: You'll weigh all  
3 that, look at the cost, look at the other --

4 MR. EISFELLER: Yes.

5 CHAIRMAN GOLDNER: -- features of the  
6 consultants, and make a choice?

7 MR. EISFELLER: That's exactly correct.

8 CHAIRMAN GOLDNER: And then, your  
9 idea -- the proposal here is to let us know of  
10 that decision on the 17th of November?

11 MR. EISFELLER: That's the schedule  
12 right now, yes.

13 CHAIRMAN GOLDNER: Okay. Okay. And  
14 any idea what we're talking about? Are we  
15 talking about \$10,000 here? Are we talking about  
16 \$12 million? What --

17 MR. EISFELLER: We're talking in the  
18 order of 40 to \$60,000.

19 CHAIRMAN GOLDNER: Okay. Okay. And  
20 would that be true for the other consulting  
21 contract as well?

22 MR. EISFELLER: So, the other  
23 consulting contract is the Back End Consultant.  
24 That RFP draft is early in its phase, it's about

1 20 percent done right now. We have vendors that  
2 we've, you know, selected to send the RFP to, but  
3 we have not started having discussions. So,  
4 that's pretty early in the process. So, I --

5 CHAIRMAN GOLDNER: Would you say it's  
6 larger or smaller than the Third Party one?

7 MR. EISFELLER: I would expect it would  
8 be much larger than the Third Party Survey. And  
9 I would expect also, on that one, there is a  
10 requirement in the order that we share the RFP  
11 with the Commission. So, that's on the schedule  
12 as well. So, you'll have an opportunity to  
13 review that RFP before it gets sent out. And  
14 then, we're going to follow a very formal RFP  
15 process. We're going to be using the Eversource  
16 12-week process. It's very staged. And then, at  
17 the end of that, we'll have a vender that we are  
18 proposing, that will be presented to the  
19 Commission per the order.

20 CHAIRMAN GOLDNER: Okay.

21 MR. EISFELLER: And that's reflected in  
22 that same schedule. And the estimated dates are  
23 indicated as well.

24 CMSR. CHATTOPADHYAY: And, at this

1 point, you don't have any idea of how much that's  
2 going to cost?

3 MR. EISFELLER: No.

4 CMSR. CHATTOPADHYAY: Okay.

5 MR. EISFELLER: But it will be more  
6 than the Third Party Survey, we're assuming.

7 CHAIRMAN GOLDNER: "61K" you just said.

8 *[Laughter.]*

9 CHAIRMAN GOLDNER: No, that sounds  
10 good. Any -- just making sure that we're -- any  
11 other questions, Commissioner?

12 *[Cmsr. Chattopadhyay indicating in the*  
13 *negative.]*

14 CHAIRMAN GOLDNER: Okay. All right.  
15 Very good.

16 Anything else on the Dunsky Report or  
17 any of the other consult contracts you'd like to  
18 highlight?

19 MR. FOSSUM: No, I think that's  
20 adequate for this afternoon. The opportunity to  
21 present that information to you, to inform the  
22 Commissioners about the schedule, in light of the  
23 indication in the order about a status conference  
24 in December, Mr. ISO has indicated may not be

1 particularly fruitful. And, on the Dunsky  
2 Report, the opportunity to present that to you,  
3 explain our reasoning, and get an understanding  
4 of where that sits for cost issues.

5 So, on those items that were most  
6 recently added, I think that is sort of  
7 sufficient for this afternoon, subject to any  
8 further questions you may have.

9 And, so, I think, unless somebody stops  
10 me, we would be fine to turn over -- oh,  
11 apparently, I'm getting an indication there might  
12 be one other item, before we turn it over to Mr.  
13 Murray.

14 MR. EISFELLER: So, just one more  
15 comment. I would just want to reiterate that  
16 there's a couple of approaches we could take to  
17 this, as far as presenting to the Commission.  
18 And, you know, one approach, and it's sort of  
19 indicated here as to when these events may  
20 happen, is that we could present as indicated by  
21 the asterisks in this presentation. We could  
22 basically move the Project along. When it's  
23 ready, when we're ready to present specific  
24 milestones to the Commission, we could have a

1 meeting like this, or we could culminate them in  
2 one status review next May or June.

3 CHAIRMAN GOLDNER: Yes. No, thank you  
4 for the flexibility. We'll take it back and talk  
5 about it some more.

6 I think what, and I'll cover this at  
7 the end again, but I think we want to be very  
8 responsive to your needs. So, we'll provide a  
9 quick order after this meeting with the Dunsky  
10 Report, and making sure that that's  
11 ticked-and-tied.

12 I would ask, Attorney Fossum, if you  
13 could drop this schedule into the file, into the  
14 docket?

15 MR. FOSSUM: Certainly.

16 CHAIRMAN GOLDNER: That would be --  
17 that would be helpful. And then, that will -- we  
18 can even perhaps attach that to the order, so  
19 that everyone is using the same document, even if  
20 they're not in the room here today.

21 MR. FOSSUM: Certainly. Yes. I will  
22 look to -- I'll file this presentation, well,  
23 I'll look to do that this afternoon.

24 CHAIRMAN GOLDNER: Thank you.



1 MR. FOSSUM: So, yes. And then, I'd  
2 just like to highlight, I think this is  
3 indicative, this Governance Council, the people  
4 on it have spent, you know, a great deal of time  
5 and effort working on this. It's an important  
6 Project, and we'd like to see it, you know,  
7 successful. So, whatever we can do to help you  
8 get the information you need to assure that it  
9 will be successful, that's good for all of us.

10 CHAIRMAN GOLDNER: Thank you.

11 CMSR. CHATTOPADHYAY: Can I?

12 CHAIRMAN GOLDNER: Go ahead.

13 CMSR. CHATTOPADHYAY: Probably I was  
14 being a little bit naive in my thinking. So, the  
15 way I'm looking at this is, the Final Report  
16 would be -- is expected to happen, I'm talking  
17 about the Cost/Benefit study, which will be the,  
18 you know, will be the most informative aspect for  
19 us, because we have to rely on it to decide. So,  
20 that's going to be September in 2023?

21 *[Mr. Eisfeller indicating in the*  
22 *affirmative.]*

23 CMSR. CHATTOPADHYAY: How firmed up is  
24 this, the whole schedule? Like, is there any

1 flexibility? Do you have a possibility of doing  
2 this sooner? I'm just curious.

3 MR. EISFELLER: So, the critical path  
4 in the schedule is the fact that we have sort of  
5 a stacked process. The Governance Council  
6 decided that the RFP -- the consultants working  
7 on the RFI Back End review would inform the RFP  
8 development for the front end of the Platform.  
9 So, those, the process of bidding the RFP for the  
10 Back End Consultant, and the process of bidding  
11 the RFP for the Platform, those are 12-week  
12 processes by themselves. That's sort of a given.  
13 I can't change that. That's an Eversource  
14 process. And I've tried to change it.

15 CHAIRMAN GOLDNER: I'm assuming that  
16 the Unutil process is eight weeks or something,  
17 is that --

18 MR. EISFELLER: We could do, you know,  
19 much faster.

20 *[Laughter.]*

21 MR. EISFELLER: No. No, we have a  
22 formal process as well. It takes time. But they  
23 have a 12-week process. We're going to follow  
24 that. It's a good process. We're going to

1 follow that. There's not much leeway there.

2 So, that is a critical path, the RFP  
3 for the Back End Consultant review, and then the  
4 RFP development for the front end, and then the  
5 RFP processing for the Platform, those can't be  
6 moved much.

7 Before the decision was made to make  
8 those series events, the schedule was much  
9 quicker. Many of these work streams were done in  
10 parallel; and now they're not. So, it would --  
11 for us to move the schedule up much, or quite a  
12 bit, you know, if you wanted to meet the status  
13 conference in December, we'd have to do all these  
14 work streams in parallel, there would be some  
15 compromise on the design. There was an expect --  
16 you know, there was a concern that we wouldn't  
17 have all the information we wanted for the  
18 initial draft of the RFP, and we may not get the  
19 best RFP result.

20 So, this process of RFI and vendor  
21 reviews, and then the consultants, both the  
22 survey and the back end review, bringing that  
23 information into the RFP for the front end, we'll  
24 have -- will result in the best RFP, I think,

1           that we can design or craft.

2                       CMSR. CHATTOPADHYAY: So, talking about  
3 how firmed up this schedule is, there's the other  
4 end of it as well. Do you -- are you pretty  
5 confident this is a good schedule? I mean, it  
6 won't get delayed further?

7                       MR. EISFELLER: I wouldn't stake my job  
8 on that end date. You know, we are -- this is a  
9 Council, this is a committee working on this.  
10 There's many parties involved, which adds to the  
11 difficulties of us implementing these tasks. And  
12 it takes time getting everyone in the room  
13 together to make decisions. You know, there's a  
14 consensus decision process. I mean, the  
15 decisions typically take two weeks in themselves  
16 for a review, the recommendations from the teams  
17 that are working on specifics, present them to  
18 the Governance Council. There's review done,  
19 usually changes are made, and then a decision is  
20 made on a particular item. That takes time. And  
21 we've incorporated some of that time in here, but  
22 I don't control that time. You know, that's not  
23 something that Unitil controls by themselves, or  
24 any of the entities in the room.

1           We all, everyone on the Governance  
2 Council, I would say, has a desire to do this as  
3 fast as possible. And I give everyone credit,  
4 everyone is working hard to do that. But there's  
5 a lot of moving parts, many entities that aren't  
6 controlled by any of the utilities. And we're  
7 trying to reach consensus on items that will  
8 become more difficult as we get into the design  
9 of the Platform. There's aspects that each of  
10 the parties may want to see as part of the RFP,  
11 there will be debate. We want to have time for  
12 the debate.

13           So, no, I can't guarantee the end date.  
14 Right now, that's an estimate. We have time in  
15 the Project Schedule for discussion, but not a  
16 ton of time. You know, the decisions, we've  
17 allowed two weeks for the decisions along the  
18 way, where there's decision points. But  
19 sometimes those take longer.

20           CMSR. CHATTOPADHYAY: Thank you.

21           MR. EISFELLER: Okay. Thank you.

22           CHAIRMAN GOLDNER: So, yes, first, as  
23 we wrap up on this topic, I would like to relay  
24 our appreciation for the presentation and the

1 clear schedule. This is very helpful, and  
2 appreciated. And it looks -- it looks promising.

3 The only thing I would request, just as  
4 a slight modification for next round, is just if  
5 you can mark out the critical path. I can kind  
6 of see with the red drop-down arrows. And we  
7 used to crosshatch the critical path, or you can  
8 use triangulation, whatever you want, using  
9 Microsoft Project or whatever tool you're using.  
10 But, if the critical path were a little clearer,  
11 it would be helpful to us, it just helps us  
12 monitor and see how things are going. And, when  
13 a date's missed, it's not critical path, it's not  
14 that big a deal. Obviously, if it's critical  
15 path, then it gets a schedule delay on the final  
16 as well.

17 So, just for next time around, if the  
18 critical path could be made a little more clear,  
19 crosshatch it or something, that would be very  
20 helpful.

21 Excellent. Very good. Anyone else  
22 have any comments on the presentation or Items 1,  
23 2, and 3 on the additional item list?

24 *[No indication given.]*

1 CHAIRMAN GOLDNER: Everybody is good?  
2 Okay, Commissioner?

3 *[Cmsr. Chattopadhyay indicating in the*  
4 *affirmative.]*

5 CHAIRMAN GOLDNER: Okay. Let's move to  
6 the feature presentation.

7 MR. FOSSUM: And I'll talk just long  
8 enough to say that Michael Murray, I'm hoping  
9 you're still on the line? Yes, he is. All  
10 right. So, Michael Murray will have that  
11 presentation.

12 MR. MURRAY: Wonderful. Thank you,  
13 everyone, Mr. Chairman and Commissioner. Can  
14 everyone hear me okay?

15 CMSR. CHATTOPADHYAY: Yes.

16 CHAIRMAN GOLDNER: Yes.

17 MR. MURRAY: Okay. Beautiful. My name  
18 is Michael Murray. And I'm with Mission:data  
19 Coalition. And I was selected by the Governance  
20 Council today to do a live presentation regarding  
21 the consent process for sharing your  
22 energy-related information with navigation.

23 So, if you'll recall, it was a few  
24 months ago now, we did a presentation just with

1 static PowerPoint images of how the customer  
2 would walk through it. And then, you had asked  
3 for a more live demonstration to see, you know,  
4 really get your hands on, to see visually how  
5 this would work if you were in the customer's  
6 shoes. And, so, that's what I'm here to do  
7 today.

8 I would like to share my screen. Is  
9 there a way that I can do that easily?

10 MS. RUSSO: Yes. Bear with us one  
11 moment, we are trying to get you those  
12 privileges.

13 *[Short pause.]*

14 MR. MURRAY: Okay. I see it now.

15 MS. RUSSO: Great.

16 MR. MURRAY: I will -- let me know when  
17 you can see that?

18 MS. HASTINGS: We can see it.

19 CMSR. CHATTOPADHYAY: We can.

20 MR. MURRAY: Okay. Wonderful. So,  
21 what I'm going to do first is just a high-level  
22 overview. I'll briefly, very briefly, summarize  
23 some information provided previously in our  
24 consent process. I'll show you some of the steps



1           that are going to be involved, and then we'll  
2           enter the live demonstration. You know, once we  
3           get into that, please interrupt with questions as  
4           they come up.

5                        So, at high level, what we're going to  
6           be showing you today is an example where a  
7           customer is sitting on the couch looking at their  
8           tablet computer, wondering what can they do to  
9           save on their energy bills. Maybe there's a heat  
10          pump retrofit of some sort that they heard a  
11          friend of theirs did, and that's saving them some  
12          money. They're curious, they want to learn more.  
13          You, through the process that we'll detail for  
14          you, you click a button that says "Would you like  
15          to share your information with Acme Energy  
16          Consulting?" And then, you get some results on  
17          that iPad showing you, you know, what cost  
18          savings opportunities there may be that are  
19          tailored based on the software processing of your  
20          specific information. So, this is the steps that  
21          we're going to go through in more detail today.

22                       Two things that I wanted to emphasize  
23          here are on previous information that we had  
24          provided. On the left is a wireframe diagram of

1 the authorization form itself. This is a  
2 web-based form, which I'll show you momentarily.  
3 This wireframe was in the Settlement Agreement  
4 that the Commission approved. This is a  
5 guideline for the Council -- the Governance  
6 Council to use in designing this process. And,  
7 you know, we're trying to make this as, you know,  
8 as informative as possible. We want consent to  
9 be informed and freely given, and so forth, but  
10 it also needs to be -- it needs to comport with  
11 sort of modern web-based practices.

12 And, so, the demonstration that I'm  
13 going to show you, keep in mind it's just a demo  
14 from one particular system that's out there. The  
15 Governance Council, you know, has not decided on  
16 the finality of the design by any means. But,  
17 nevertheless, I think it's going to be  
18 instructive, and you'll get a sense for how this  
19 works.

20 And, so, on the right, this was just an  
21 example that we provided previously of how this  
22 might look with "Unitil" branding. It would work  
23 on a mobile device or a tablet or a Web browser,  
24 and we'll get into that shortly.

1           And the last thing before getting into  
2           the demo that I wanted to highlight is this  
3           multistep process, where there's a handoff, where  
4           you begin at the third party's website, in this  
5           example, it's going to be Acme Energy. And then,  
6           you go to the utility's website to authenticate  
7           yourself, this is Step 2. You authorize the  
8           utility. This is all securely done on the  
9           utility's website. And then, the customer is  
10          sent back to the third party's website. And this  
11          is -- there's a reason for this flow that  
12          involves, you know, technical and security  
13          reasons. This is a pretty widely established  
14          process on the internet today using a technology  
15          called "OAuth". And, so, I'll be sure to point  
16          out, you know, when you started at the third  
17          party site, and when you're going onto the  
18          utility's website to make the authorization.

19                Okay. I will begin showing you how  
20                this works with Lakefront Utilities. This is an  
21                Ontario, Canada, utility. They have about 10,000  
22                customers. And, once again, just wanted to  
23                highlight that this is just an example. So, the  
24                details of the design will be finished in due

1 course by the Governance Council.

2 So, I am the customer. And this is  
3 Acme Energy Consulting. Okay? I'm going to show  
4 you this view, as the customer, and I'm also  
5 going to show you a view as it appears to the  
6 third party, so that you can see when they're  
7 granted authorization and when it's revoked.

8 So, if I switch tabs, I go to a  
9 dashboard. This is -- will be a similar to a  
10 type of interface for third parties that the  
11 Platform hub would facilitate. And, right now,  
12 this says, and please tell me if you can't see  
13 this well, but it says "It doesn't look like you  
14 have any authorizations." So, this screen is  
15 blank right now. That's okay, because I haven't  
16 granted an authorization yet. And what I'm going  
17 to do is pretend to be a customer, go through  
18 this flow, and then we'll see that authorization  
19 and access to the information appear on that  
20 dashboard screen.

21 So, I was -- I'm interested in Acme  
22 Energy Consulting, maybe I've heard about it on  
23 Facebook, maybe a neighbor told me about it. I  
24 want to experience this, their recommendations.

1 I have reason to trust them and their service.  
2 So, my first step is to select the utility, my  
3 utility. So, I'm going to choose Lakefront  
4 Utilities for this example. And then, I click  
5 "Share my data."

6 Now, I'm in Step 2, where I need to  
7 verify my identify. This is the authentication  
8 step. And notice I am -- the URL bar here, it  
9 says "*lakefrontutilities.com*". So, I'm at the  
10 website of the utility. I'm going to verify my  
11 identity here.

12 This is just an example, but this is  
13 one way of doing it. I have an account number  
14 which I can enter in, and my information from my  
15 last bill, to make sure that I'm the right  
16 person. So, I'm going to select "March 31st" as  
17 my last bill date, and the amount due was  
18 "\$140.00" even. I'm going to click "Verify".  
19 And I was successfully verified.

20 Now, I see the authorization screen.  
21 This is the real version of the wireframe that I  
22 showed before. And the customer gets to see what  
23 types of information they're going to share with  
24 the third party, over what time period, and then

1           for which services. In this case, this is the  
2           meters that are associated with my account. So,  
3           let's take a look at this top level for account  
4           details.

5                        So, I can choose or unchoose certain  
6           things, if I want to share my account details  
7           with them. Let's say my energy usage, but not my  
8           bills, I could choose to do that. And, if you  
9           want more information about exactly what's  
10          covered in each of these categories, you can see  
11          that, you know, "utility bills", by deselecting  
12          this, I'm choosing not to transmit my bill start  
13          and end date, what rate plan I'm on, you know,  
14          total usage for the month, actually, that  
15          actually sounds pretty useful for the heat pump  
16          analysis that I'd like to do, so why don't I go  
17          back and I'll check this to make sure that  
18          information is sent.

19                       The customer has some choice here. On  
20          the timeframes, there's a question for the user,  
21          which is both historical and ongoing. So, how  
22          much historic information do I want to share?  
23          Here, I'm going to leave it with "two years",  
24          that gives the third party a chance to do a

1 weather normalization analysis based on my energy  
2 usage over heating and cooling seasons.

3 And then, for ongoing data, it's  
4 defaulted to "three years", but I could put that  
5 to "indefinite", or I could say "No ongoing  
6 data". So, let's say I just want to do a  
7 one-time analysis with my historic record, I'm  
8 going to choose "No ongoing data" should be  
9 shared.

10 And then, finally, I'll select my  
11 services or my meters under my account. This  
12 particular utility is actually a municipal water  
13 and electric utility. So, I'm going to just  
14 choose the electric portion, and I'm not going to  
15 share any of my water information at this time.

16 And then, at the bottom, we see "How  
17 will your data be used?" This is a statement  
18 written by Acme Energy Consulting, and it says  
19 "For a heat pump cost saving analysis tailored to  
20 your home." If I agree with that Statement of  
21 Purpose, then I can click "Authorize". If I  
22 don't like the Statement of Purpose, or I have  
23 second thoughts about it, I can either close the  
24 browser window or click the "Decline" button.

1           So, I will choose to "Authorize".

2                       And, now, I'm leaving Lakefront  
3           Utilities, and I'm going back to Acme Energy  
4           Consulting. While this was loading, it was  
5           getting the sample information for this demo from  
6           the utility in the background. It shows me my  
7           kilowatt-hour consumption, and this is just an  
8           example of what my energy savings might be if  
9           I -- or, cost savings, after moving, let's say,  
10          to a heat pump.

11                      So, there's a whole wide range of  
12          different energy services that you could envision  
13          here, you know, from rooftop solar, to, you know,  
14          behind-the-meter DERs of various types. All of  
15          this can pull in, you know, rate information, so  
16          you're looking at the most current cost  
17          information that pertains to that customer. And,  
18          so, this is a, you know, a wide range of  
19          creativity is possible here. It's really up to  
20          the marketplace to, you know, make the innovation  
21          that will show up here on this screen.

22                      So, now, I'm going to go back to the  
23          third party's view, and then I'll show you how  
24          this authorization has been created. So, I'm



1 going to just refresh this webpage.

2 And, now, I see that my customer, John  
3 Doe, has granted this authorization about 57  
4 seconds ago. And it appears to be -- you get a  
5 little bit of information about this here. So,  
6 this is now listed as available and accessible to  
7 Acme Energy. And it's fairly straightforward.  
8 There's both, in this particular example, a  
9 visual way of, you know, seeing, of downloading  
10 the information that's been granted. But there's  
11 also an automated application programming  
12 interface with API that can be used as well.

13 So, this is kind of how the flow works.  
14 Before I go any further, do you have any  
15 questions?

16 CMSR. CHATTOPADHYAY: Just out of  
17 curiosity, in the previous, you know, slide, you  
18 were -- maybe not the previous one, but where you  
19 had like the blue choices, three choices, then  
20 you clicked on the blue button. They don't look  
21 too big here, but -- the other one, not this one.  
22 And you clicked on it, and you had a drop-down  
23 for -- and, when you did that, does the customer  
24 have the choice to -- right, stay there, and

1 click on one of the blue items? Yes. You click  
2 on it. Not that, basically, you're looking at  
3 what information do these include.

4 Here, can you select just some of them  
5 to be shared, or do you have to have them  
6 consolidated, the way it's being presented?

7 MR. MURRAY: Yes. It's a good  
8 question. This is exactly the type of detail  
9 that the Governance Council will be deciding upon  
10 in the design phase. There are different  
11 philosophies to this approach.

12 One philosophy is that the average  
13 customer is really not educated enough to know  
14 exactly what decisions, like, for example, their  
15 meter number, they might not know if that's  
16 significant or meaningful to the service being  
17 provided.

18 I can tell you, as, you know, someone  
19 familiar with demand response, there may be meter  
20 numbers and other account details, it sounds a  
21 bit eclectic and hard to understand, but those  
22 may be essential to participate in ISO-New  
23 England's wholesale markets, for example.

24 And, so, one school of thought is that

1           "The customer should actually have relatively  
2           little choice, because the third party knows what  
3           they need in order to deliver their service."  
4           And, so, there should actually be less, you know,  
5           fewer choices.

6                         Another school of thought is "No, we  
7           actually want customers to be fully informed and  
8           consent to each and every individual line item."  
9           There's pros and cons to both approaches, and  
10          this is something that is going to be, you know,  
11          balanced and worked out by the Governance  
12          Council.

13                        CMSR. CHATTOPADHYAY: Thank you. Thank  
14          you.

15                        CHAIRMAN GOLDNER: Just one additional  
16          question. Is the -- the speed is pretty fast.  
17          It looks very user-friendly. You're clicking on  
18          buttons, it moves immediately to the next one.  
19          I'm sure this is a test bench. Do you expect  
20          this kind of speed in real life?

21                        MR. MURRAY: Yes, I would. You know,  
22          there's some pretty good evidence that, you know,  
23          these types of processes are, you know, consumers  
24          have very high expectations for how they ought to

1 work. We're used to using Microsoft and Google  
2 services, which are very, very quick.

3 And I'm not saying that we'll have  
4 their scale of infrastructure. But, you know,  
5 this is just one utility vendor that, you know,  
6 we've already sent the RFI out to twelve  
7 different vendors.

8 You know, the Settlement Agreement,  
9 which was approved sometime ago, actually  
10 specified some sort of minimum performance  
11 criteria, which are, you know, I think very, very  
12 reasonable and easy to achieve.

13 So, there really shouldn't, you know,  
14 in a well-designed system, it should operate just  
15 like this. It's pretty fast, pretty streamlined.

16 The only time where there might be some  
17 delays is when you make this final step to the --  
18 back to the third party, and, if I'm sending 24  
19 months of historical 15-minute usage data, that  
20 might take some time. And, so, it's not going to  
21 be, you know, instantaneous. It could take, you  
22 know, several minutes or longer for that  
23 information to be transferred.

24 But, you know, the customer experience

1 is an important part of the design. And it's  
2 definitely that something that the Governance  
3 Council is aware of.

4 CHAIRMAN GOLDNER: Okay. Thank you.

5 MR. MURRAY: So, I wanted to show you  
6 how a revocation works. Customers are in control  
7 of this information. So, let me just -- let's  
8 pretend I'm the customer, and I'm going to my  
9 *lakefrontutilities.com* website. Let's say I got  
10 my heat pump report, and I now no longer wish to  
11 have that authorization anymore. I either, you  
12 know, I'm not choosing to use them as a service  
13 provider, or I'm concerned with my privacy, or  
14 whatever the reason might be.

15 So, I'll click into "My  
16 authorizations". And I can see that I granted  
17 Acme Energy Consulting seven minutes ago an  
18 authorization to share this type of information,  
19 only historic information on service account on  
20 my energy usage and my bill history. And this  
21 was the purpose it was for. And this is how I  
22 did it, with an online interface. I can actually  
23 see a receipt as to, you know, remind me that I  
24 did, in fact, complete this transaction. And I

1 will just click "Revoke". It asks to confirm, I  
2 will put "Yes, I do wish to revoke." And I have  
3 no more authorizations.

4 And then, from the third party's  
5 perspective, we'll just jump back here, we'll  
6 reload this page, and the John Doe record has  
7 disappeared. So, again, this is all using pretty  
8 standard technology that's been developed in  
9 other areas of the internet.

10 One last slide I'll show you, and then,  
11 you know, please, if you have any additional  
12 questions, I'm happy to answer them.

13 I just wanted to end with "OAuth".  
14 This is a technology that manages secure  
15 authorizations. And it's widely used across the  
16 internet. So, while there are some novel aspects  
17 of the system that we're building in New  
18 Hampshire, I want the Commission to understand  
19 that, from a security perspective, a lot of this  
20 is, you know, using well-established  
21 technologies.

22 PayPal transacts billions of dollars  
23 every day using exactly this type of secure  
24 authorization system. Microsoft and Google also

1 do the same. And Open Banking, which is the  
2 system for the United Kingdom and all of Europe  
3 to share customer banking information to access  
4 new financial services. That all uses OAuth as  
5 the backbone as well. So, I think that's  
6 important context for, you know, this technology  
7 that we're building as a whole.

8 And that, with that, that concludes my  
9 presentation, and would be happy to answer any  
10 further questions that you may have.

11 CMSR. CHATTOPADHYAY: So, give me a  
12 sense of whether something like this has been --  
13 is already being used anywhere?

14 MR. MURRAY: I'm sorry, could you say  
15 that again, Commissioner? I had trouble hearing  
16 you.

17 CMSR. CHATTOPADHYAY: Give me a sense  
18 of whether there are applications like this that  
19 are already being used in the utility sphere?

20 MR. MURRAY: Yes. There are about  
21 17 utilities in the United States, covering  
22 37 million electric meters, that have already  
23 implemented a system very like this. But this is  
24 the State of Texas, the State of California.

1 Colorado just went live with theirs a few months  
2 ago. New York State utilities have recently gone  
3 live with theirs. So that there's quite a few.

4 And then, in Canada, all of the --  
5 there's about 50 electric and gas utilities in  
6 the Province of Ontario, serving about 5 million  
7 customers. And they -- that's where this example  
8 is from. And they are under a regulatory  
9 requirement to implement this system by twelve  
10 months from today, so, October 2023.

11 So, it's definitely had some  
12 experience. But I wouldn't say the majority of  
13 American utilities offer something like this.  
14 But, you know, 37 million is a significant number  
15 for the installed base.

16 CMSR. CHATTOPADHYAY: Thank you. Thank  
17 you.

18 CHAIRMAN GOLDNER: Does it have any  
19 aggregation capability? So, if the City of  
20 Lebanon wants to look at the City of Lebanon, can  
21 it do that? Or, is it just one-by-one, by  
22 individual?

23 MR. MURRAY: That's a great question.  
24 This, the example that I showed, is often, with



1 permission, for every single record that gets  
2 transmitted.

3 I believe, and maybe others can correct  
4 me if I'm wrong, we -- according to the  
5 Settlement Agreement, we will be providing some  
6 aggregated information, and that does not require  
7 customer consent, because it's at such an  
8 aggregate level. And that's definitely a subject  
9 of ongoing discussion.

10 But I'm not as knowledgeable on that  
11 topic. So, I would defer to others to answer  
12 that.

13 CHAIRMAN GOLDNER: So, I think -- so,  
14 that might be available in a later demo. But,  
15 today, it's just sort of the one-on-one  
16 individual that's available today, in your demo?

17 MR. MURRAY: That's correct. Yes.

18 CHAIRMAN GOLDNER: Okay. So, I was  
19 hoping to see the City of Lebanon today, but not  
20 going to happen. Some of us would like to see it  
21 more than I would.

22 MR. BELOW: I would just mention, I  
23 believe New York State has a live website where  
24 you can get municipal aggregated, at least

1 electricity, possibly also gas data, by town.  
2 And I think it's open access to anyone, I  
3 believe. I've been to it in the past. I don't  
4 have the URL handy, but --

5 CHAIRMAN GOLDNER: I'm remembering this  
6 back --

7 MR. MURRAY: That's right. It's the  
8 Utility Energy Registry.

9 CHAIRMAN GOLDNER: Okay. I'm  
10 remembering this back from the last reading, but,  
11 as long as there was -- it was some fixed number,  
12 20 or 30 or 40 people, as long as the aggregation  
13 was larger than that, then you got out of the  
14 privacy issues, and that was no longer a worry.  
15 So, it sounds like that's already been -- had  
16 been thought through.

17 So, is that piece of the software, is  
18 that a big deal to have this aggregation piece?  
19 Or, is that -- I mean, is that a whole additional  
20 software project? Or, is that something that's  
21 not a big deal?

22 MR. MURRAY: That's a good question. I  
23 think that the utilities should probably chime  
24 in. But my initial sense, based on how I've seen

1           it done in New York and in California, is that  
2           aggregating all the information, all the usage  
3           data, it is a bit complex. But, then, you don't  
4           have any of this consent-based user flow. It's  
5           simply just a record, it's just a listing of  
6           aggregated datasets that can be downloaded.

7                     And, so, the technology on the website  
8           is actually very simple. You're just downloading  
9           pre-generated datasets. But creating those in  
10          the first place is going to require some time and  
11          effort.

12                    CHAIRMAN GOLDNER: So, is part of your  
13          scoping document to have predefined aggregation  
14          set up, so, by city, by county, by whatever, is  
15          that part of the scope? Does anybody know?

16                    MR. MURRAY: I believe so. And I  
17          would -- yes, I would need to double-check the  
18          Settlement Agreement. I think the lion's share  
19          of sort of technical development is going to be  
20          on this consent-based flow. And, so, that's why  
21          we've been focusing on that.

22                    CMSR. CHATTOPADHYAY: I think I'm going  
23          to ask a related question that the Chairman is  
24          asking about.

1           Is the software design modular enough  
2           that you can, as long as you're not creating any  
3           privacy issues, in the future, you can change the  
4           software to allow data to be processed at a more  
5           aggregated level? I mean, just -- or, is the  
6           design that is out there right now doesn't allow  
7           that? So, you have to go to the drawing board  
8           again to make those changes.

9           So, really, the question is about how  
10          modular is this?

11          MR. EISFELLER: This is Justin. I'll  
12          try to address that question.

13          MR. MURRAY: Justin?

14          MR. EISFELLER: Go ahead.

15          MR. MURRAY: Justin, is that you?  
16          Sorry.

17          MR. EISFELLER: Yes.

18          MR. MURRAY: Okay. Yes, you want to  
19          take that question?

20          MR. EISFELLER: I'm going to defer the  
21          question. So, no, that's part of the RFI  
22          process, where we'll be discovering some of those  
23          details.

24          And my initial response is "It

1 depends." So, if we're aggregating monthly usage  
2 data, it's a pretty simple dataset, aggregating  
3 those accounts by town, or by county, or whatever  
4 it may be, there's not as many data points. If  
5 you're aggregating interval data, there's a lot  
6 of moving parts, there's a lot more data, it's  
7 more complex; definitely some concern.

8 If you're aggregating disparate  
9 datasets, interval data, monthly data, hourly  
10 data, you know, all those things need to be  
11 discovered as to what extent of the design we  
12 want to deploy.

13 But the basic level is monthly usage  
14 data, by town, fairly simple. That functionality  
15 is available in the market.

16 How modular it is? I don't know.  
17 We'll know better as we get into the discussions  
18 with the vendors. And that will help inform the  
19 RFP, that's the basic approach that we're taking.

20 If the Commission desires a further  
21 presentation after the RFI process, that's  
22 something we can probably schedule. If you want  
23 to see more of that other capability?

24 And, to some extent, you're seeing just

1           one utility here. This is one utility. The  
2           Platform combines data from all three utilities,  
3           and potentially other entities in the future.  
4           So, you know, the design is a little more complex  
5           than this, but also a lot more capable.

6                        So, I don't know if I addressed your  
7           question directly, but I definitely deferred it.  
8           And that was what I was hoping to do.

9                        CHAIRMAN GOLDNER: Let me follow up on  
10          the follow-up a little bit as well.

11                       So, to Commissioner Chattopadhyay's  
12          question on "modularity", that also sort of goes  
13          into maintenance. So, five, ten, twenty years  
14          from now, what's the -- what's the plan for  
15          maintaining the Platform and debugging? And, so,  
16          it's not working, how do you deal with the  
17          maintenance down the road?

18                       MR. EISFELLER: The maintenance  
19          contract -- go ahead, Michael, if you want to  
20          take that, but --

21                       MR. MURRAY: Sure, just briefly. The  
22          Settlement Agreement does contemplate a sort of  
23          minimum response times to bugs or issues that  
24          come up. And I think it's our intention that,

1 through the RFP process, we would select a vendor  
2 that is, you know, really, it has a long-term  
3 interest in making this work, you know, and just,  
4 you know, constant, you know, security updates,  
5 and, you know, tweaks and changes that are going  
6 to be necessary, as with any software project.

7 So, I think, between the Settlement  
8 Agreement and the vender selection, I think that  
9 that's how we can be assured that, you know,  
10 there's -- years into the future it's going to be  
11 working well.

12 And I will point out that National  
13 Grid, in New York, and ConEdison, the biggest  
14 utilities, they also have -- they have invested  
15 in this as well under Commission orders in New  
16 York. There's, you know, one utility hired a  
17 vendor to do it. And, in the case of ConEd, they  
18 actually built it themselves. And I think one of  
19 the cautionary tales that we learned from that is  
20 that, if you try to build it yourself, there's a  
21 lot, you know, so much of software is in the  
22 maintenance of it over time, it's not in the  
23 up-front build. And, so, there's some issues  
24 that we've heard about with Consolidated Edison

1 of just, you know, bugs not being fixed, and  
2 documentation was lacking, and things like that.

3 That, by using an outside vendor, who's  
4 really a specialist in this, I think we can  
5 eliminate a lot of those issues.

6 CHAIRMAN GOLDNER: Another cautionary  
7 tale --

8 MR. GOLDMAN: And I also --

9 CHAIRMAN GOLDNER: I'm sorry. I was  
10 just going to say, another cautionary tale would  
11 be, if you have somebody developing the software,  
12 and they hand it off to another vendor who  
13 inherits the buggy code of the prior vendor, that  
14 can yield bad results, too. So, I would just say  
15 that's something to watch for in the process.  
16 I've seen that many times, probably you have,  
17 too.

18 MR. MURRAY: Yes.

19 MR. GOLDMAN: Can I chime in as well?  
20 This is Ethan Goldman.

21 Just from a sort of structural  
22 perspective, one thing that gives me some  
23 confidence about the way New Hampshire is  
24 pursuing this is that the existence of the data



1 council as an interface for members of the  
2 public, either customers or the third party  
3 vendors, to be able to not only get more  
4 information, but also file bug reports or  
5 complaints, concerns about performance, things  
6 like that, as a way to help sort out between "Is  
7 this the vendor?" "Is this a particular  
8 utility?" "Is this a design decision based on  
9 the initial constraints of the Agreement?"

10 I think, rather than having this simply  
11 live as a small side project for the utility, but  
12 have a dedicated group that's responsible for  
13 reviewing any concerns and complaints, and seeing  
14 the resolution through, as it passes through all  
15 the parties, that, you know, the vendor and the  
16 different utility players, I think we have a much  
17 better chance of maintaining this, given that  
18 level of oversight.

19 CHAIRMAN GOLDNER: Yes. And my final  
20 point on the maintenance piece of it, is that  
21 would be very interesting for the Commission to  
22 know, before approving the software package  
23 itself, because that long-term stream of  
24 revenue -- or, long-term stream of costs, rather,

1 is something that could be the biggest portion of  
2 the cost in the long term. So, we would be very  
3 interested in understanding the maintenance costs  
4 as we move along through time.

5 MR. EISFELLER: This is Justin. I want  
6 to add to that discussion a little bit.

7 So, I would expect the RFP to cover  
8 many of those topics. So, how is maintenance  
9 performed? What are the costs of maintenance?  
10 What's ongoing costs? How do you perform  
11 patches/upgrades? How do you involve the  
12 customer in your upgrade path, you know, planning  
13 for the future?

14 Those are all going to be part of our  
15 questionnaire to the vendors. So, we'll have an  
16 understanding of each of the vendors. That  
17 becomes part of the selection process. You know,  
18 it's one of the reasons that upfront costs isn't  
19 the most deciding factor in selecting a vendor.  
20 You want somebody who has robust processes like  
21 those, follows a customer in their development  
22 and such.

23 The other -- the other aspect of the  
24 design, and I think it's worth noting, is that

1 we're using common standards, and we're using a  
2 portable design. The components that we're  
3 assembling into a package here are portable. We  
4 could go to another company. And, obviously,  
5 with the interest we got on the RFI, there's many  
6 companies out there that provide this  
7 functionality. So, you'd want it to be portable  
8 as well. If you don't like this vendor, three  
9 years from now, we want to be able to pick up and  
10 take our pieces, the modules that we're using,  
11 and have someone else provide that.

12 So, that's all part of the design. If  
13 the architecture is designed such, then your  
14 likelihood of long-term success is better.

15 So, that's what we'll be looking for to  
16 include in the design. I think we have a good  
17 team assembled here that thinks the same way,  
18 when it comes to performance and longevity and  
19 support. So, those are aspects that we're going  
20 to be including in the design. You'll have a  
21 chance to see those things reflected, and  
22 comment, as we develop that RFP.

23 CMSR. CHATTOPADHYAY: My point about  
24 modularity was really driven by sort of the, you

1 know, the importance of making sure whoever is  
2 providing this facility service, you know, the  
3 Platform, they understand that this has to be  
4 able to respond to changes in, you know,  
5 behavior, and new technologies coming into place,  
6 and all of that, and be able to react accordingly  
7 within the construct that you first created.

8 So, that was why I was asking it, about  
9 modularity. So, I think that's going to be an  
10 important piece, as you go out and do the RFPs,  
11 you know.

12 So, if somebody is able to say "Yes, we  
13 can change stuff, you know, quite easily", that  
14 matters.

15 MR. EISFELLER: Just one more item.  
16 Obviously, there's going to be a few players here  
17 in maintaining the Platform on an ongoing basis,  
18 the utilities play a part. I would expect that  
19 we'll have a RACI diagram, a responsibility  
20 matrix --

21 *[Court reporter interruption.]*

22 MR. EISFELLER: -- a RACI diagram,  
23 R-A-C-I.

24 MR. PATNAUDE: Thank you.

1 MR. EISFELLER: "Responsibility,  
2 Accountability", help me out, guys? Basically, a  
3 project management tool that defines who's  
4 responsible for what, who's accountable for what.  
5 Who should be informed if there's changes, that's  
6 what the "I" stands for. And, you know,  
7 basically, how you work together to support the  
8 Platform.

9 We'll include that as part of the RFP,  
10 for the vendors to describe their working model  
11 with their customers. And that becomes part of  
12 the decision-making as well. If they have a  
13 robust approach, if they involve the various  
14 companies? We'll want to understand that,  
15 because we'll have to work together going forward  
16 to keep the Platform running as expected.

17 MR. GOLDMAN: Can I also please weigh  
18 in on the question of "modularity", and the  
19 ability to change the Platform over time? I  
20 think this is another issue that is important to  
21 think about, in terms of how we evaluate the RFP  
22 responses. Typically, what we see is a spectrum  
23 between flexibility and reliability. So, we'll  
24 have some products that come in and they're very

1 inflexible, but they do what they do very well,  
2 they're maintaining it for a large number of  
3 customers, and they're going to keep it  
4 up-to-date. But, you know, it's like a lot of  
5 products you buy, right? It does what it does.  
6 And, if you don't like it, buy another product.

7 On the other end of the spectrum, you  
8 have products where it's a completely custom  
9 software vendor, and they'll do exactly whatever  
10 you want. But you know they're going to be  
11 figuring things out for the first time for you.  
12 And, so, there's a concern that, you know, there  
13 will be more bugs to deal with, and how are they  
14 going to maintain it over time.

15 And, typically, you might want to find  
16 somewhere in between, right? Where you have a  
17 vendor who has some components, is willing to  
18 customize it a little bit around what you do or  
19 allow you ways to build things on top of it.

20 And, so, that's, you know, something  
21 that we want to look for, when we look at the  
22 proposals, is what are the tradeoffs between  
23 flexibility and reliability, and the number of  
24 other customers that are sharing the costs for

1           developing the new features effectively, rather  
2           than everything being custom just for the New  
3           Hampshire context.

4                        So, it's an important question. It's  
5           not an easy answer, though.

6                        CHAIRMAN GOLDNER: Yes. And I assume  
7           you have a pipeline to the vendors who have done  
8           this before. You said one was in-house, the  
9           state did it kind of internally. The other ones  
10          have external vendors. I assume you know who  
11          those vendors are, and those are people that  
12          you're reaching out to for the RFPs?

13                      MR. MURRAY: That's correct, Mr.  
14          Chairman. We developed a list of I think it was  
15          a dozen that received the RFI already. And, yes,  
16          and it's a mix. You know, some utilities have  
17          chosen to do it themselves. Some, to Ethan's  
18          point, some utilities, in Texas, hired IBM to  
19          make a completely custom system for all four of  
20          the major utilities in the competitive areas of  
21          Texas. And then, others have decided to just,  
22          you know, use a single vendor or a combination of  
23          vendors.

24                      So, those are all -- and we certainly

1 are aware of who those companies are. I think we  
2 have a really good list, just based on our, you  
3 know, experience across the U.S.

4 CHAIRMAN GOLDNER: Okay. Thank you.

5 MR. MURRAY: Is there anything else, as  
6 far as, you know, the Commission's original  
7 request to get a sense of the look and the feel  
8 in the navigation? Did I satisfy your desire for  
9 information or is there anything else more that I  
10 can provide?

11 CHAIRMAN GOLDNER: Yes. I think, just  
12 speaking for myself, this is what we were  
13 expecting. So, thank you.

14 Commissioner Chattopadhyay?

15 CMSR. CHATTOPADHYAY: Same here. It  
16 was really helpful. You know, it's always better  
17 to visualize, you know, see how things actually  
18 work. So, thank you.

19 MR. MURRAY: Excellent. Thank you so  
20 much. I appreciate the opportunity.

21 CHAIRMAN GOLDNER: All right. Is there  
22 anything else we need to cover today?

23 *[No indication given.]*

24 CHAIRMAN GOLDNER: No? Okay. We'll



1 get home in time for dinner.

2 So, we will issue an order following  
3 the conference to address the issues here. And  
4 I'll thank everyone. And we are adjourned.

5 **(Whereupon the status conference was**  
6 **adjourned at 2:52 p.m.)**

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