

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

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

Reptg. Clean Energy New Hampshire:
Christopher Skoglund

Reptg. Conservation Law Foundation:
Nicholas A. Krakoff, Esq.

Reptg. LISTEN Community Services:
Raymond Burke, Esq. *(N.H. Legal Asst.)*

Reptg. Southern New Hampshire Services:
Ryan Clouthier

Reptg. Dept. of Environmental Services:
Rebecca Ohler

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

Reptg. New Hampshire Dept. of Energy:
Paul B. Dexter, Esq.
Elizabeth Nixon
Jay Dudley
Stephen Eckberg
Scott Balise
(Regulatory Support Division)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

I N D E X

PAGE NO.

DISCUSSION RE: PREFILED EXHIBITS 9

UTILITIES

WITNESS PANEL: KATHERINE PETERS
MARC LEMENÁGER
JOHN JAMES BUTLER
MARISA PARUTA
ERIC STANLEY
HEATHER TEBBETTS
MARY DOWNES
ELENA DEMERIS
CAROL WOODS

Direct examination by Ms. Chiavara 12, 27
Direct examination by Mr. Sheehan 18
Direct examination by Mr. Taylor 20
Direct examination by Ms. Geiger 25
Cross-examination by Mr. Dexter 32

PUC COMMISSIONERS' QUESTIONS BY TOPIC:

INTERROGATORIES RE: TESTING (GST & TRC) BY:

Special Cmsr. Ross 43
Cmsr. Chattopadhyay 48
Chairman Goldner 54

INTERROGATORIES RE: DISCOUNT RATES BY:

Cmsr. Chattopadhyay 71
Chairman Goldner 74

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

I N D E X (continued)

PAGE NO.

INTERROGATORIES RE: NONPARTICIPANTS BY:

Special Cmsr. Ross 77

INTERROGATORIES RE: PERFORMANCE INCENTIVES BY:

Special Cmsr. Ross 80

Cmsr. Chattopadhyay 86

Chairman Goldner 94

INTERROGATORIES RE: NEW HAMPSHIRE ECONOMY BY:

Cmsr. Chattopadhyay 104

Chairman Goldner 110

**INTERROGATORIES RE: NO DIRECT COST
FOR SERVICES & EQUIPMENT BY:**

Chairman Goldner 115

Special Cmsr. Ross 119

INTERROGATORIES RE: MARKET BARRIERS BY:

Special Cmsr. Ross 120

Cmsr. Chattopadhyay 128

Chairman Goldner 131

INTERROGATORIES RE: SUPPLEMENTAL FUNDING BY:

Cmsr. Chattopadhyay 145

E X H I B I T S

EXHIBIT NO.	D E S C R I P T I O N	PAGE NO.
47	NH Utilities 2022-2023 New Hampshire Statewide Energy Efficiency Plan & attachments	<i>premarked</i>
48	Joint testimony of the New Hampshire Utilities by Katherine Peters, Marc Leménager, John James Butler, Eric Stanley, Mary Downes, & Carol Woods	<i>premarked</i>
49	Testimony of the Department of Energy by Elizabeth Nixon, Stephen Eckberg, Jay Dudley, & Scott Balise	<i>premarked</i>
50	Testimony of the Office of the Consumer Advocate by Courtney Lane & Danielle Goldberg	<i>premarked</i>
51	Testimony of Clean Energy New Hampshire by Christopher Skoglund	<i>premarked</i>
52	Unitil corrected pages to Plan Attachments H1 and J1	<i>premarked</i>
53	RESERVED FOR RECORD REQUEST (Revised Attachment F3 to the March 1, 2022 Plan labeled the "2022-2023 System Benefits Charge (SBC) Calculation")	<i>(To be filed by 04-25-22)</i>
54	RESERVED FOR RECORD REQUEST (OCA cost benefit analysis previously completed 01-19-22)	<i>(Reserved in the Afternoon Session)</i>

P R O C E E D I N G

1
2 CHAIRMAN GOLDNER: Good morning,
3 everyone. I'm Chairman Goldner. I'm joined by
4 Special Commissioner Ross and Commissioner
5 Chattopadhyay.

6 We're here this morning in Docket DE
7 20-092 for a hearing regarding the New Hampshire
8 Electric and Gas Utilities Triennial Energy
9 Efficiency Plan covering 2022 and 2023. This
10 Plan filing, and the Commission's evaluation of
11 it, are largely responsive to directives --
12 pardon me -- contained in HB 549 and the changes
13 made to it in RSA 374-F:3, VI-a.

14 Let's take appearances, beginning with
15 the Joint Utilities.

16 MS. CHIAVARA: Good morning,
17 Commission. Jessica Chiavara, here for Public
18 Service Company of New Hampshire, doing business
19 as Eversource Energy.

20 CHAIRMAN GOLDNER: Okay. Unutil?

21 MR. TAYLOR: Good morning,
22 Commissioners. Patrick Taylor, on behalf of
23 Northern Utilities, Inc., and Unutil Energy
24 Systems, Inc.

1 CHAIRMAN GOLDNER: Liberty?

2 MR. SHEEHAN: Good morning,
3 Commissioners. Mike Sheehan, for Liberty
4 Utilities Granite State Electric) Corp. and
5 Liberty Utilities (EnergyNorth Natural Gas) Corp.

6 CHAIRMAN GOLDNER: Thank you. NHEC?

7 MS. GEIGER: Good morning,
8 Commissioners. I'm Susan Geiger, with the law
9 firm of Orr & Reno, representing New Hampshire
10 Electric Cooperative.

11 CHAIRMAN GOLDNER: Next, we can go to
12 Clean Energy New Hampshire?

13 MR. SKOGLUND: Chris Skoglund, Director
14 of Energy Transition, Clean Energy New Hampshire.

15 CHAIRMAN GOLDNER: The Conservation Law
16 Foundation?

17 MR. KRAKOFF: Good morning,
18 Commissioners. Nick Krakoff, from the
19 Conservation Law Foundation.

20 CHAIRMAN GOLDNER: Thank you. LISTEN
21 Community Services?

22 MR. BURKE: Good morning,
23 Commissioners. I'm Raymond Burke, from New
24 Hampshire Legal Assistance, here on behalf of

1 LISTEN Community Services.

2 CHAIRMAN GOLDNER: Thank you. Southern
3 New Hampshire Services?

4 MR. CLOUTHIER: Good morning,
5 Commissioners. This is Ryan Clouthier. I'm with
6 Southern New Hampshire Services.

7 CHAIRMAN GOLDNER: Acadia Center?

8 *[No verbal response.]*

9 CHAIRMAN GOLDNER: Okay. The New
10 Hampshire Department of Environmental Services?

11 MS. OHLER: Good morning,
12 Commissioners. Rebecca Ohler, here on behalf of
13 the Department.

14 CHAIRMAN GOLDNER: Office of Consumer
15 Advocate?

16 MR. KREIS: Good morning, Mr. Chairman,
17 Commissioners. I'm Donald Kreis, the Consumer
18 Advocate. With me today is our Staff Attorney,
19 Julianne Desmet. And, of course, we represent
20 the interests of residential customers.

21 CHAIRMAN GOLDNER: Thank you. And the
22 New Hampshire Department of Energy?

23 MR. DEXTER: Good morning,
24 Commissioners. Paul Dexter, representing the

1 Department of Energy. I'm joined today by four
2 members of the Regulatory Support Division, Liz
3 Nixon, Jay Dudley, Steve Eckberg, and Scott
4 Balise.

5 CHAIRMAN GOLDNER: Thank you. Are
6 there any members of the public that would like
7 to comment today?

8 *[No verbal response.]*

9 CHAIRMAN GOLDNER: Okay. Seeing none.
10 Exhibits 47 to 52 have been prefiled and
11 premarked for identification.

12 Exhibit 53 was late-filed last night by
13 Liberty. Mr. Sheehan, can you tell us what the
14 exhibit shows, and why the Company was not able
15 to file in a timely fashion, pursuant to the
16 hearing guidelines?

17 MR. SHEEHAN: The exhibit, as indicated
18 in the cover letter, is a Revised Attachment F3
19 to the March 1 Plan. And Ms. Tebbetts will
20 explain, frankly, that we've been working through
21 some wiggles in the numbers. And what I filed
22 last night is going to be wiggled further.

23 So, at this point, we will not seek
24 admission of 53. And we'll work with DOE to file

1 a corrected version of it promptly. And I
2 apologize for the late filing.

3 CHAIRMAN GOLDNER: Okay. Thank you.
4 Anything else we need to cover
5 regarding exhibits?

6 *[No verbal response.]*

7 CHAIRMAN GOLDNER: Okay. Seeing none.
8 So, just as a preliminary matter, the
9 Commissioners have reviewed the Plan and prefiled
10 testimony, and have no need of the witnesses
11 summarizing their testimony. We have a number of
12 clarifying questions about the Plan and
13 testimony. But our preliminary assessment is
14 that the Plan is largely consistent with HB 549
15 and other authorities. This preliminary
16 assessment is, of course, subject to the
17 opportunity of all parties to cross-examine the
18 witnesses and point out to us anything we may be
19 missing in our preliminary assessment. After
20 we've heard from everyone, we will consider
21 whether we need to see any particular
22 modifications to the Plan before we are able to
23 finally approve it.

24 Given the tight timeline and filings

[UTILITIES WITNESS PANEL]

1 received Tuesday afternoon, the Commission
2 questions, if any, are directed collectively at
3 the Joint Utilities and separately to Energy,
4 OCA, and CENH. For efficiency, we would ask that
5 we have two panels accordingly, pardon me, Panel
6 1 being the Joint Utilities and Panel 2 being
7 Energy, OCA, and CENH. We have the witness box
8 available for the primary witnesses, and a table
9 reserved up front, to my right, for the rest of
10 the witnesses.

11 Any concerns with that approach?

12 *[No verbal response.]*

13 CHAIRMAN GOLDNER: Okay. All right.
14 Thank you.

15 Any other preliminary matters to
16 discuss before we have the witness panel sworn
17 in?

18 *[No verbal response.]*

19 CHAIRMAN GOLDNER: No? Okay. Let's
20 proceed with the witnesses. Mr. Patnaude, would
21 you please swear in the first panel of witnesses.

22 (Whereupon **Katherine Peters,**
23 **Marc Leménager, John James Butler,**
24 **Marisa Paruta, Eric Stanley,**

[UTILITIES WITNESS PANEL]

1 **Heather Tebbetts, Mary Downes,**
2 **Elena Demeris,** and **Carol Woods** were
3 duly sworn by the Court Reporter.)

4 CHAIRMAN GOLDNER: Thank you. So,
5 we'll move to the qualification of witnesses and
6 adoption of the prefiled testimony.

7 Ms. Chiavara, would you like to lead
8 the charge?

9 MS. CHIAVARA: Absolutely.

10 **KATHERINE PETERS, SWORN**

11 **MARC LEMÉNAGER, SWORN**

12 **JOHN JAMES BUTLER, SWORN**

13 **MARISA PARUTA, SWORN**

14 **ERIC STANLEY, SWORN**

15 **HEATHER TEBBETTS, SWORN**

16 **MARY DOWNES, SWORN**

17 **ELENA DEMERIS, SWORN**

18 **CAROL WOODS, SWORN**

19 **DIRECT EXAMINATION**

20 BY MS. CHIAVARA:

21 Q Beginning with Ms. Peters. Ms. Peters, can you
22 please state your name, your title, and the
23 company you work for?

24 A (Peters) Good morning. My name is Katherine

[UTILITIES WITNESS PANEL]

1 Peters. I'm the Director of Residential Programs
2 at Eversource Energy. My business address is 73
3 West Brook Street, in Manchester, New Hampshire.

4 Q And what are the responsibilities of your role at
5 Eversource?

6 A (Peters) In my role, I oversee the implementation
7 of our residential programs in Massachusetts and
8 New Hampshire, and assist with policy and
9 planning for the Energy Efficiency Programs.

10 Q And have you ever testified before this
11 Commission?

12 A (Peters) Yes, I have.

13 Q Thank you. Did you file testimony and
14 corresponding attachments as part of the filing
15 on April 19th, 2022, marked as "Exhibit 48"?

16 A (Peters) Yes, I did.

17 Q Were the testimony and supporting materials
18 prepared by you or at your direction?

19 A (Peters) Yes.

20 Q Do you have any changes or updates to make at
21 this time?

22 A (Peters) No.

23 Q And do you adopt your testimony today as it was
24 written and filed?

[UTILITIES WITNESS PANEL]

1 A (Peters) Yes, I do.

2 Q Thank you very much. Turning to Marc Leménager.
3 Mr. Leménager, can you please state your name,
4 your title, and the company that you work for?

5 A (Leménager) My name is Marc Leménager. I'm a
6 Senior Analyst with the Regulatory, Planning, and
7 Evaluation Team at Eversource Energy. And my
8 business address is 73 West Brook Street,
9 Manchester, New Hampshire.

10 Q And what are the responsibilities of your role at
11 Eversource?

12 A (Leménager) My primary responsibilities include
13 participating in and monitoring regulatory
14 proceedings and stakeholder engagement related to
15 the Energy Efficiencies Programs, as well as
16 planning, coordination, and outreach.

17 Q Have you ever testified before this Commission?

18 A (Leménager) Yes.

19 Q Thank you. Did you file testimony and
20 corresponding attachments as part of the filing
21 on April 19th, 2022, marked as "Exhibit 48"?

22 A (Leménager) Yes.

23 Q And were the testimony and supporting materials
24 prepared by you or at your direction?

[UTILITIES WITNESS PANEL]

1 A (Leménager) Yes.

2 Q Do you have any changes or updates to make at
3 this time?

4 A (Leménager) No.

5 Q And, so, do you adopt your testimony today as it
6 was written and filed?

7 A (Leménager) Yes.

8 Q Thank you very much. John James Butler, Mr.
9 Butler, will you please state your name, your
10 title, and the company that you work for?

11 A (Butler) My name is James Butler. I am Senior
12 Analyst for Regulatory Planning and Evaluation
13 with Eversource. My business address is 73 West
14 Brook Street, Manchester, New Hampshire office.

15 Q And what are the responsibilities of your role
16 with Eversource?

17 A (Butler) My current responsibilities include
18 maintenance of the Company and statewide
19 benefit-cost models, regulatory, forward capacity
20 market, and internal KPI reporting, and program
21 and measure planning and coordination.

22 Q And have you ever testified before this
23 Commission?

24 A (Butler) No.

[UTILITIES WITNESS PANEL]

1 Q Did you file testimony and corresponding
2 attachments as part of the filing on April 19th,
3 2022, marked as "Exhibit 48"?

4 A (Butler) Yes.

5 Q Were the testimony and supporting materials
6 prepared by you or at your direction?

7 A (Butler) Yes.

8 Q Do you have any changes or updates to make at
9 this time?

10 A (Butler) No.

11 Q So, do you adopt your testimony today as it was
12 written and filed?

13 A (Butler) Yes.

14 Q Thank you very much. And, finally, Marisa
15 Paruta. Ms. Paruta, will you please state your
16 name, your title, and the company that you work
17 for?

18 A (Paruta) Good morning. My name is Marisa Paruta.

19 *[Court reporter interruption regarding*
20 *the microphone.]*

21 **BY THE WITNESS:**

22 A (Paruta) My name is Marisa Paruta. And I'm the
23 Director of Revenue Requirements for Connecticut
24 and New Hampshire for Eversource Energy.

[UTILITIES WITNESS PANEL]

1 BY MS. CHIAVARA:

2 Q And what are the responsibilities of your role at
3 Eversource?

4 A (Paruta) As the Director of Revenue Requirements,
5 I am responsible for the coordination and
6 implementation of revenue requirement
7 calculations and regulatory filings for New
8 Hampshire.

9 Q Have you ever testified before this Commission?

10 A (Paruta) Yes, I have.

11 Q And did you file testimony and corresponding
12 attachments as part of the filing on March 1st,
13 2022, marked as "Exhibit 47", and as part of the
14 filing on April 19th, 2022, marked as "Exhibit
15 48"?

16 A (Paruta) Yes, I did.

17 Q Were the testimony and supporting materials
18 prepared by you or at your direction?

19 A (Paruta) Yes, they were.

20 Q Do you have any changes or corrections to make to
21 that testimony at this time?

22 A (Paruta) No, I do not.

23 Q So, do you adopt your testimony as it was written
24 and filed?

[UTILITIES WITNESS PANEL]

1 A (Paruta) Yes.

2 MS. CHIAVARA: All right. Thank you
3 very much. That's all for Eversource witnesses.

4 I will turn it over to counsel for
5 Liberty.

6 MR. SHEEHAN: Thank you.

7 BY MR. SHEEHAN:

8 Q Mr. Stanley, could you please introduce yourself
9 and describe your title with the Company?

10 A (Stanley) Yes. My name Eric M. Stanley. I am
11 the Manager of Energy Efficiency and Customer
12 Programs for Liberty Utilities Service Corp.,
13 which provides services to Liberty Utilities
14 (Granite State Electric) Corp. and Liberty
15 Utilities (EnergyNorth Natural Gas). In my role,
16 I'm responsible for all program planning,
17 implementation, marketing, reporting, and
18 analytics for the Company.

19 Q Mr. Stanley, did you participate in the
20 preparation of the testimony, the joint testimony
21 that's been marked as "Exhibit 48" in this
22 docket?

23 A (Stanley) Yes.

24 Q And do you have any changes to that testimony?

[UTILITIES WITNESS PANEL]

1 A (Stanley) No.

2 Q And do you adopt that written testimony as your
3 sworn testimony here this morning?

4 A (Stanley) I do.

5 Q Thank you. Ms. Tebbetts, please introduce
6 yourself and describe your role with Liberty?

7 A (Tebbetts) My name is Heather Tebbetts. And I'm
8 employed by Liberty Utilities Service
9 Corporation. I'm the Manager of Rates and
10 Regulatory Affairs. And my responsibilities
11 include rate-related matters for Granite State
12 Electric and EnergyNorth Natural Gas.

13 Q Ms. Tebbetts, did you include -- is there a
14 testimony authored by you that was included in
15 the March 1 filing that's been marked as "Exhibit
16 47"?

17 A (Tebbetts) Yes.

18 Q And your testimony, as part of that package,
19 appears at Bates 705, is that correct?

20 A (Tebbetts) Yes.

21 Q And your testimony in that package addresses the
22 proposed rates that are Liberty-specific in that
23 Plan, is that correct?

24 A (Tebbetts) Yes.

[UTILITIES WITNESS PANEL]

1 Q Do you have any changes or corrections to that
2 testimony?

3 A (Tebbetts) I don't have changes to the testimony.
4 But we had filed Exhibit 53 last night, and we
5 received some questions from the DOE. And, so,
6 we're going to be working with the DOE to address
7 those questions in the next day. And, so, I
8 think it would be appropriate to get a record
9 request on the docketbook so that we can address
10 those questions.

11 Q Other than the questions related to what is
12 marked -- what is called "Attachment F3", do you
13 have any other changes to your testimony?

14 A (Tebbetts) I do not.

15 Q And do you adopt your written testimony as you've
16 described, as you've qualified, I guess, this
17 morning as your sworn testimony this morning?

18 A (Tebbetts) Yes.

19 MR. SHEEHAN: Thank you.

20 MR. TAYLOR: Good morning.

21 BY MR. TAYLOR:

22 Q Ms. Downes, please state your name, your title,
23 and the company that you work for, and your
24 responsibilities and role with that company?

[UTILITIES WITNESS PANEL]

1 A (Downes) Good morning. My name is Mary Downes.
2 And my business address at Unitil is 325 West
3 Road, in Portsmouth. I am the Manager of
4 Strategy and Compliance. And I am responsible
5 for overseeing the administrative and regulatory
6 requirements associated with Unitil's Energy
7 Efficiency Programs in both New Hampshire and
8 Massachusetts.

9 Q And have you testified before this Commission
10 before?

11 A (Downes) Yes.

12 Q Did you file testimony and corresponding
13 attachments as part of the filing on April 19th,
14 2022, marked as "Exhibit 48"?

15 A (Downes) I did.

16 Q And was that testimony and the supporting
17 materials prepared by you or at your direction?

18 A (Downes) Yes, it was.

19 Q Do you have any changes or updates that you'd
20 like to make at this time?

21 A (Downes) No.

22 Q And do you adopt that testimony today as it was
23 written and filed as your sworn testimony?

24 A (Downes) Yes.

[UTILITIES WITNESS PANEL]

1 MR. TAYLOR: I'll next ask some
2 questions of Ms. Demeris.

3 BY MR. TAYLOR:

4 Q Ms. Demeris, please state your name, your title,
5 the company that you work for, and your role and
6 responsibilities for the company?

7 A (Demeris) My name is Elena Demeris. I'm a Senior
8 Regulatory Analyst for Unitil Service Corp. And,
9 in this capacity, I prepare regulatory filings,
10 do pricing research, regulatory analysis, tariff
11 administration, revenue requirements, and other
12 analytical services.

13 Q And have you ever testified before this
14 Commission?

15 A (Demeris) Yes.

16 Q Did you file testimony and corresponding
17 attachments as part of the filing on April 19th,
18 2022, marked as "Exhibit 48"?

19 A (Demeris) Yes.

20 Q And was that testimony and the supporting
21 materials prepared by you or at your direction?

22 A (Demeris) No.

23 Q No. Did you -- I'm sorry. Did you contribute to
24 the testimony that was prepared and submitted on

[UTILITIES WITNESS PANEL]

1 April 19th, 2022, marked as "Exhibit 48"?

2 A (Demeris) Yes.

3 Q And do you have any changes or updates to make at
4 this time to that testimony?

5 A (Demeris) No.

6 Q And do you adopt that testimony today as it was
7 written and filed as your sworn testimony?

8 A (Demeris) Yes, I do.

9 Q Now, I'll also ask you to reference Exhibit 47,
10 which is the New Hampshire Three-Year Plan and
11 its corresponding attachments. Those were filed
12 on March 1st, 2022. At Pages 620 -- or, Bates
13 Pages 620 to 629, there's testimony submitted by
14 Christopher Goulding. Do you have that testimony
15 before you?

16 A (Demeris) Could you repeat the exhibit number?

17 Q The exhibit is Exhibit 47. It is the Three-Year
18 Plan that was submitted by the Joint Utilities on
19 March 1st, 2022, as well as its corresponding
20 attachments. And, within the attachments to the
21 Three-Year Plan, at Bates numbers 620 to 629,
22 there's prefiled Testimony of Christopher
23 Goulding. And I'll give you a minute to find it.

24 (Short pause.)

[UTILITIES WITNESS PANEL]

1 BY MR. TAYLOR:

2 Q And I'll just note, Ms. Demeris, that, if you're
3 having difficulty finding the actual Exhibit 47
4 as it was filed, you can simply reference the
5 Plan that was filed on March 1st, as the Bates
6 numbering is the same.

7 A (Demeris) I'm gaining on it. I'm almost there.

8 Q Well, Ms. Demeris, let me ask you this, because I
9 don't want to make you hunt for it while we do
10 this. Are you aware --

11 A (Demeris) Oh, excuse me, Pat. So, Bates 620 is
12 the calculations of -- yes. That's, in my copy,
13 that's the bill impacts for the System Benefits
14 Charge for the New Hampshire Co-op.

15 Q Okay. Then, I'm sorry if I sent you to the wrong
16 place.

17 With respect to the prefiled Testimony
18 of Christopher Goulding that was included in the
19 attachments to the Three-Year Plan filed on March
20 1, 2022, have you read and are you familiar with
21 Mr. Goulding's testimony?

22 A (Demeris) Yes.

23 Q And, with the understanding that Mr. Goulding
24 could not be present today, do you adopt in its

[UTILITIES WITNESS PANEL]

1 entirety Mr. Goulding's testimony as your own
2 sworn testimony today?

3 A (Demeris) Yes, I do.

4 MR. TAYLOR: Thank you.

5 BY MS. GEIGER:

6 Q Ms. Woods, please state your name, your job
7 title, and your employer?

8 A (Woods) My name is Carol Woods. My employer is
9 New Hampshire Electric Cooperative, which is
10 located at 579 Tenney Mountain Highway, in
11 Plymouth, New Hampshire. My title is Energy
12 Solutions Executive. And I am responsible for
13 the planning, implementation, and regulatory
14 support for the Company's Energy Efficiency
15 Programs.

16 Q Ms. Woods, have you ever testified before this
17 Commission?

18 A (Woods) Yes.

19 Q And did you file testimony and corresponding
20 attachments as part of the filing on March 1st,
21 2022, marked as "Exhibit 47", and as part of the
22 filing on April 19th, 2022, marked as
23 "Exhibit 48"?

24 A (Woods) Yes.

[UTILITIES WITNESS PANEL]

1 Q Were the testimony and supporting materials
2 prepared by you or at your direction?

3 A (Woods) Yes.

4 Q Do you have any changes or updates to make at
5 this time?

6 A (Woods) I do not.

7 Q And do you adopt your testimony today as it was
8 written and filed?

9 A (Woods) Yes.

10 MS. GEIGER: Thank you.

11 CHAIRMAN GOLDNER: Thank you. So,
12 we'll start with questions. Do any of the
13 parties have any questions for the -- any
14 cross-examination for the witnesses?

15 MS. CHIAVARA: Excuse me, Chair
16 Goldner. I have just one item. There are a
17 couple of clarifying matters that the utility
18 witnesses would like to address. They will be
19 very brief.

20 CHAIRMAN GOLDNER: Of course.

21 MS. CHIAVARA: If that's all right?

22 Okay.

23 CHAIRMAN GOLDNER: Yes.

24 BY MS. CHIAVARA:

[UTILITIES WITNESS PANEL]

1 Q I will turn this over to Ms. Downes and Ms.
2 Peters to address those items at this time,
3 beginning with Ms. Downes.

4 A (Downes) Thank you. Yes. Thank you. We do want
5 to address a couple of statements in OCA's
6 prefiled testimony.

7 First, in that testimony, which is
8 Exhibit 50, at Bates 025, Lines 1 and 2, it
9 states that the utilities do not apply
10 free-ridership to downstream measures. This
11 statement is not accurate. In fact, in response
12 to discussion with stakeholders, the EM&V Working
13 Group, the 2022 to 2023 Plan, which is Exhibit
14 47, at Bates Page 084, as well as the TRM, which
15 is Attachment 1 to that exhibit -- I'm sorry,
16 that's Exhibit 47 as well, Attachment A,
17 Bates 453, we do account for free-ridership for
18 both midstream and downstream commercial and
19 industrial lighting measures.

20 Also, the Utilities want to respond to
21 OCA's recommendations regarding increased
22 financing opportunities for customers. This is
23 discussed in the OCA's prefiled testimony,
24 beginning at Bates Page 026. While the Utilities

[UTILITIES WITNESS PANEL]

1 are not currently proposing to dedicate any new
2 funding to the existing on-bill financing
3 revolving loan funds, all of the gas and electric
4 utilities offer zero percent on-bill financing to
5 our residential, commercial, and municipal
6 customers, to help them finance their portion of
7 project costs.

8 The OBF mechanism for C&I customers is
9 described on Bates Page 030 of the Plan. And,
10 for residential customers, the OBF Program is
11 described on Bates Page 051.

12 The permitted loan amounts are also
13 included in each of the Utilities' tariffs, and
14 activity regulated to the Utilities' on-bill
15 financing programs is included in the Utilities'
16 quarterly reports, which are filed with the
17 Commission.

18 Q And Ms. Peters.

19 A (Peters) Thank you. We would also like to
20 clarify the Utilities' interpretation of House
21 Bill 549's requirement that each electric
22 utility's planned electric system savings must be
23 at least 65 percent of its overall planned energy
24 savings.

[UTILITIES WITNESS PANEL]

1 The OCA's testimony, at Bates Page 015,
2 states that the Utilities interpret House Bill
3 549 to mean that the 65 percent electric savings
4 apply to "lifetime electric savings", rather than
5 "annual savings". That statement is not
6 accurate. The text of the legislation does not
7 specify "lifetime" or "annual savings".

8 All of the Utilities have submitted
9 plans where at least 65 percent of the annual
10 energy savings come from electricity. We feel
11 this approach best captures the balance of
12 program offerings that meet the needs of our
13 customers and also meet the needs of the electric
14 system. They align with the program structures
15 that we have offered in prior years as the
16 Legislature had intended.

17 Since the Utilities began offering
18 fuel-neutral savings, we have worked to achieve
19 that right balance in offerings that ensures the
20 portfolio is focused on delivering significant
21 electric savings to benefit the system and all
22 customers, and to also be able to deliver the
23 fuel savings opportunities that are so important
24 and critical to our low income residential and

[UTILITIES WITNESS PANEL]

1 municipal customers. That balance has been an
2 effort of the Utilities, of stakeholders, and of
3 the Commission, as we administer the programs
4 over the years.

5 The programs that are -- the program
6 measures that are associated with those fuel
7 savings, those measures typically have very long
8 lifetimes. They are measures such as insulation
9 or air-sealing that, once you install them in a
10 home, they last for 20 or 30 years, and deliver
11 savings over that timeframe.

12 Many of the measures that are
13 associated with electric savings have shorter
14 measure lives, not necessarily because they don't
15 work for a long period of time, but because, as
16 we attribute savings to the program, we apply
17 adjustments, like changing baselines and other
18 market factors, so we lower the lifetime that is
19 attributable to those electric saving measures,
20 in order to ensure that we only attribute savings
21 in the Plan to things that are directly related
22 to the program intervention.

23 So, this dichotomy between the lifetime
24 of fuel-saving measures and the lifetime of many

[UTILITIES WITNESS PANEL]

1 electric saving measures makes "lifetime" a
2 different lense in which to view the planning of
3 the types of measures and programs that we offer.

4 So, in terms of creating a plan that
5 has an appropriate balance of program offerings,
6 to meet customer needs, and to meet policy needs,
7 the annual savings, the savings that we achieve
8 on that yearly basis, gives us a better lense on
9 the measures that we should offer, that should be
10 included in the Plan, and the impacts that they
11 have for the customers each year.

12 One other thing to note in this is that
13 each Utility's service territory has different
14 customer sector composition. Eversource, for
15 example, has a large base of large industrial
16 customers in our service territory, whereas the
17 New Hampshire Electric Co-op has a much smaller
18 base of commercial customers, and a much larger
19 percentage of their base coming from residential
20 customers that receive those fuel-neutral types
21 of programs.

22 And, so, this variation means that the
23 annual savings is a -- is a better lense in which
24 to look at the program planning, in order to

[UTILITIES WITNESS PANEL]

1 assure that all of the Utilities can offer
2 appropriate programming to all of our customers.

3 In conclusion, each Utility has met the
4 statutory requirement by submitting a plan that
5 includes at least 65 percent of annual savings
6 from electricity in our plans.

7 Thank you.

8 MS. CHIAVARA: Those were the only
9 matters we had. Thank you very much.

10 CHAIRMAN GOLDNER: Thank you. Any
11 other clarifications from the utilities?

12 [No verbal response.]

13 CHAIRMAN GOLDNER: Okay. Thank you.
14 We'll move to cross. Does anyone have any
15 questions, any cross-examination for the
16 witnesses?

17 MR. DEXTER: The Department of Energy
18 does have a few questions.

19 CHAIRMAN GOLDNER: Thank you, Mr.
20 Dexter. Please proceed.

21 MR. DEXTER: Thank you.

22 **CROSS-EXAMINATION**

23 BY MR. DEXTER:

24 Q I would like to ask the Utility Panel, if the

[UTILITIES WITNESS PANEL]

1 Plan that's before the Commission today were
2 approved as filed, would you please outline what
3 additional filings or approvals would be made in
4 2022 to either the Commission or the Department
5 of Energy?

6 And then, I'd like to ask the same
7 question for 2023, but I'd like to start with
8 2022.

9 A (Leménager) Certainly. In calendar year 2022, we
10 have a June 1st deadline for our 2021 Annual
11 Performance Incentive filings. There's also the
12 opportunity for the Utilities, or any party, to
13 propose updates for Program Year 2023 on July 1st
14 of this year.

15 And, additionally, in Quarter 4 of this
16 year, the Utilities would update the rates, to
17 reflect the most current inflation adjustment, as
18 well as updated rates for lost revenues, if
19 applicable.

20 And then, we also will have, as
21 ongoing, our quarterly report filings throughout
22 the year.

23 Q And those filings that you just described, are
24 those consistent with filings that have been made

[UTILITIES WITNESS PANEL]

1 over the past several years under the EERS
2 framework?

3 A (Leménager) They're similar. The one difference
4 would be the July 1st deadline for an update
5 filing. In prior years, it was later in the
6 calendar year.

7 Q Thank you. And, so, then I would ask the same
8 question with respect to 2023?

9 A (Leménager) And 2023 would have similar deadlines
10 and similar updates. The only distinction I
11 would like to make is the July 1st deadline for a
12 filing would be for the 2024 to 2026 Triennial
13 Plan.

14 Q Thank you. I'd like to ask a couple -- sorry.
15 Thank you. I'd like to ask a couple of questions
16 about the Utilities' proposal to include an
17 incentive related to the -- a performance
18 incentive related to the Smart Start Program.
19 And I would first ask the general question, that
20 isn't it correct that this issue or this
21 performance incentive for the Smart Start Program
22 applies only to Eversource?

23 A (Peters) Yes. That's correct.

24 Q And would you please describe, very briefly, the

[UTILITIES WITNESS PANEL]

1 Smart Start Program, and the performance
2 incentive that goes along with that?

3 A (Peters) Certainly. Smart Start is a loan
4 offering that Eversource has for its municipal
5 customers. This particular type of loan offering
6 was developed here at the Commission during a
7 series of dockets in early 2000. And this loan
8 offering allows Eversource to make on-bill loans
9 to those municipal customers. The loans are tied
10 to the meter of the customer location. And the
11 customer makes repayments that go back into a
12 revolving fund, which is used, once their
13 payments come in, to make additional loans to
14 other municipal customers.

15 Part of the original structure of this
16 loan offering was and is a performance incentive.
17 Eversource is able to earn a 6 percent
18 performance incentive on the repayments that are
19 associated with this loan offering, so when
20 customers make the repayments to the Company.

21 This was put into place in order to
22 encourage the Company to utilize this loan
23 structure, and to ensure that it is administered
24 and used in a way that has customers repaying

[UTILITIES WITNESS PANEL]

1 loans so that they can come in and then be used
2 again for additional customers.

3 So, that performance incentive has been
4 in place since 2001. And we continue to collect
5 it today.

6 Q Would you please indicate the level of the
7 performance incentive under the Smart Start
8 Program that Eversource has collected in 2020 and
9 2021?

10 A (Peters) Just a moment. For 2020, the amount was
11 \$67,802. And, for 2021, the amount was \$48,239.

12 Q Thank you. Now, in addition -- well, let me
13 rephrase that.

14 Is it correct that the -- that the Plan
15 before the Commission today includes a
16 comprehensive performance incentive matrix and
17 calculation that applies to all the Utilities?

18 A (Peters) Yes. The Plan before the Commission
19 includes a performance incentive structure that
20 is designed to articulate and encourage the
21 achievement of the goals of the full Plan itself.
22 Those goals being primarily lifetime and annual
23 electric savings, lifetime and annual MMBtu
24 savings for the gas companies, passive demand

[UTILITIES WITNESS PANEL]

1 reduction in both winter and summer, and a value
2 component encouraging us to achieve those savings
3 in a cost-effective manner.

4 Q And, if I were to look for a description of the
5 calculation of that incentive, is that found at
6 Exhibit 47, Bates Page 088, --

7 A (Peters) Yes.

8 Q -- for the electric companies?

9 A (Peters) Yes, it is.

10 Q Okay. And do you have that page before you?

11 A (Peters) I do.

12 Q Now, I'm going to try to paraphrase the
13 performance incentive calculation. And it's
14 difficult, because it's a complex calculation.
15 But, at its core, isn't it correct that this
16 performance incentive matrix represents a
17 calculation whereby the actual spending on energy
18 efficiency is multiplied by a coefficient that
19 results in a performance -- that results in the
20 performance incentive collected?

21 A (Peters) Yes. The actual spending, so we have
22 the budgeted plan, and then we have our actual
23 spending, and, when we develop the performance
24 incentive calculations in filings after a program

[UTILITIES WITNESS PANEL]

1 year, the actual spending for that program year
2 is multiplied by the coefficients related to each
3 of these items in the performance incentive
4 calculation. The --

5 Q And -- oh, sorry.

6 A (Peters) Sorry. There's one clarification there,
7 actually. The budgets for the programs include
8 administrative costs for Smart Start for
9 Eversource. And we remove those administrative
10 costs for Smart Start when we calculate the
11 actual savings that are used for the performance
12 incentive calculation.

13 And just one other item of
14 clarification. The loan amounts for Smart Start,
15 so, the pool of revolving loan dollars, the loans
16 that are made and the repayments that come back,
17 none of those dollars are included in the dollars
18 that are part of the overall portfolio
19 performance incentive calculations.

20 Q Now, the coefficient that you mentioned has a
21 range, does it not, and that range is based on
22 performance? Is that a fair assessment?

23 A (Peters) That's correct. The target is five and
24 a half percent. And, if the Utilities achieve

[UTILITIES WITNESS PANEL]

1 beyond the goals in the targets, it can go up
2 to -- I believe it is 6.875. And, if we do not
3 achieve 100 percent of the goals, we would earn
4 less than the target, on a linear basis.

5 Q And there is a threshold for meeting the
6 performance incentive, where, in actuality, the
7 performance incentive could be zero, if certain
8 savings thresholds were not met. Is that
9 correct?

10 A (Peters) Yes. That's correct.

11 Q And, once the threshold is met, is the lower end
12 of the range in the 4.4 percent area? Do I have
13 that right?

14 A (Peters) I believe so, yes.

15 Q Okay. So, what allows the Utilities to earn the
16 higher end of the range? In other words, if the
17 target is 5.5 percent, and that's, again, program
18 spending, minus the Smart Start, times 5.5
19 percent, what is it that the Utilities do to
20 achieve the 6.875 percent?

21 A (Peters) It would depend on the component. So,
22 for lifetime or annual savings, it would mean
23 that we achieved lifetime or annual savings that
24 were greater than the goal that we had filed in

[UTILITIES WITNESS PANEL]

1 the Plan. The same would be true for the summer
2 peak demand savings and winter peak demand
3 savings, achieving savings higher than the goal.

4 For the value component, it would mean
5 that our actual spend, divided by the Plan net
6 benefits, meant that we had achieved the savings
7 at a lower cost than we had planned, that would
8 be overachievement for the value sector.

9 Q So, again, at the risk of oversimplification,
10 more savings, generally speaking, would result in
11 a higher performance incentive under this matrix,
12 correct?

13 A (Peters) That is how the performance incentive
14 for the Energy Efficiency Program Plan portfolio
15 is structured, yes.

16 Q Okay. Now, if a customer -- well, first of all,
17 I think you've mentioned that municipalities are
18 the primary recipients of Smart Start loans, is
19 that correct?

20 A (Peters) Yes. That's correct.

21 Q And what would the municipalities do with the
22 Smart Start loan proceeds?

23 A (Peters) The municipalities use the Smart Start
24 loans in order to cover their portion, their

[UTILITIES WITNESS PANEL]

1 co-pay, for energy efficiency projects that they
2 undertake.

3 Q And are those energy efficiency projects that
4 they undertake part of the NHSaves Programs?

5 A (Peters) Yes. Those projects are a part of the
6 Program. So, the incentive dollars that go
7 towards those projects would be part of our
8 actual program spend.

9 Q And would the savings achieved from those energy
10 savings installations, using the Smart Start loan
11 proceeds, would they affect the savings figures
12 that are set forth in the matrix on Bates
13 Page 088?

14 A (Peters) Yes. The savings targets are part of
15 the performance incentive calculation for those
16 programs, and the savings achieved by the
17 municipal projects are a part of that
18 calculation.

19 Q So, --

20 MR. DEXTER: Well, I think I'll leave
21 it at that. That's all the questions we had.

22 CHAIRMAN GOLDNER: Thank you, Mr.
23 Dexter. Are there any other cross in the room or
24 on the phone from the parties?

[UTILITIES WITNESS PANEL]

1 *[No verbal response.]*

2 CHAIRMAN GOLDNER: Okay. Seeing none,
3 we'll move to Commissioner questions. And we've
4 organized our questions today by topic. And
5 we'll begin with some questions that we have
6 relative to the testing, and specifically the GST
7 and the TRCT testing.

8 So, Commissioner Ross, would you like
9 to begin?

10 SPECIAL CMSR. ROSS: Good morning. I
11 just want to acknowledge that tomorrow is April
12 22nd, commonly referred to as "Earth Day". I can
13 claim to have already been an adult when it was
14 established. And it is a day to consider our
15 Earth and the environment, and what we need to do
16 to protect it. So, I do think it's very
17 appropriate that we're having this hearing so
18 close to Earth Day on energy efficiency here in
19 New Hampshire.

20 I do have some questions on the Granite
21 State Test, and I believe it's referred to as the
22 "Total Resource Cost Test". And, so, I'll begin
23 with those.

24 BY SPECIAL CMSR. ROSS:

[UTILITIES WITNESS PANEL]

1 Q Could one of the witnesses, and whoever feels
2 most ready to answer the question, please just
3 jump in, please summarize the difference
4 between -- the differences between the Granite
5 State Test and the TRC Test, and the benefits and
6 drawbacks of each test?

7 A (Butler) Thank you. So, the differences between
8 the Granite State Test, which was adopted as the
9 primary test, and the Total Resource Cost Test,
10 which we're using in the Plan as the secondary
11 test, the Granite State Test uses all utility
12 system benefits, and as well as the impacts,
13 nonutility system impacts, like other fuels,
14 water resources, and --

15 *[Court reporter interruption.]*

16 WITNESS BUTLER: I'm sorry.

17 **CONTINUED BY THE WITNESS:**

18 A (Butler) -- income-eligible participant impacts,
19 as well as a New Hampshire fossil fuel proxy.

20 Where that differs from the Total
21 Resource Cost Test is the Total Resource Cost
22 Test also takes into account participant costs,
23 like customer co-pays, as well as participant
24 non-energy benefits. And those non-energy

[UTILITIES WITNESS PANEL]

1 benefits are calculated as like non-energy --
2 NEIs. And those are not included in the Granite
3 State Test.

4 The TRC also does not include a handful
5 of utility system benefits that are in the
6 Granite State Test. Those include market
7 transformation, credit and collection costs, as
8 well as reliability. Now, the Granite State Test
9 does, as adopted, include reliability. But it
10 was not included -- neither test actually
11 includes reliability, and that was made as a
12 decision per certain stakeholders, that they
13 expressed that they didn't want that in the test.

14 BY SPECIAL CMSR. ROSS:

15 Q Thank you. Could someone take two programs,
16 maybe one residential and one C&I program from
17 the proposed current plan, and just walk through
18 how the two tests come out for that program? How
19 they -- what the results of the two tests are?

20 A (Butler) Sure.

21 Q And if there's a place in the filing that those
22 calculations are shown, if you could reference
23 that, too, that would be helpful.

24 A (Butler) So, each utility's cost-effectiveness

[UTILITIES WITNESS PANEL]

1 report shows both the Total Resource Cost Test,
2 as well as the Granite State Test. That is in
3 the filing for Eversource, we're going to -- for
4 Eversource, and for all the utilities, I guess,
5 we can --

6 Q You can just indicate in Eversource's, that would
7 be helpful.

8 A (Butler) Sure. So, while we grab that number, or
9 let me grab where that is, we can basically just
10 use, you know, for example, the ENERGY STAR Homes
11 Program, the Granite State Test there, on a
12 statewide basis, would take into account all of
13 the -- all of those utility system benefits, as
14 well as nonutility system impacts that we
15 discussed. But it would not take into account
16 those participant costs. And those participant
17 costs would be the customer kind of -- would be
18 the customer co-pays, that would not be in that
19 test.

20 So, we have it here for Eversource.
21 Yes, that's Bates 523. Again, as we discussed,
22 the Total Resource Cost Test and the Granite
23 State Test are on the far -- the two far left
24 columns. They are relatively similar, in terms

[UTILITIES WITNESS PANEL]

1 of benefit/cost ratio. But, again, the
2 utility -- the Granite State Test benefits are
3 divided by just the utility costs to get that
4 benefit-cost ratio.

5 Q Which exhibit? I need to --

6 A (Butler) I'm sorry.

7 Q Actually, is it the main -- is it the filing?

8 A (Butler) Yes, Exhibit 47. Yes.

9 Q Okay. I'll get to that. And while I'm getting
10 it, if you could just give us the numbers, that
11 would be -- for the two ratios on the ENERGY STAR
12 Homes?

13 A (Butler) Yes. Sorry. Yes. So, yes, we'll
14 just -- yes. Sorry. The Home Performance
15 Program, we'll actually just describe that one.
16 The Granite State Test benefit calculated for
17 that for Eversource would be in the fourth column
18 over, about 29 million. We would divide that by
19 just the utility cost to get the benefit-cost
20 ratio for the Granite State Test. Again, because
21 the Granite State Test does not include
22 participant costs, as well as participant energy
23 benefits.

24 In order to get the Total Resource Cost

[UTILITIES WITNESS PANEL]

1 ratio, we would divide what is in that third
2 column, the Total Resource Cost Test, by both
3 utility costs as well as the customer costs that
4 are associated with that program. And then,
5 that, again, that benefit-cost ratio would be in
6 the far left column for that there.

7 So, that, you know, again, --

8 Q And could you actually give me the two numbers,
9 the two ratios?

10 A (Butler) Oh. Yes. Sure. Sorry.

11 Q And is this now for ENERGY STAR Homes or did
12 we --

13 A (Butler) I'm sorry. I'm describing the Home
14 Performance with ENERGY STAR Program.

15 Q Okay. So, you're on the Home Performance?

16 A (Butler) Yes.

17 Q Okay.

18 A (Butler) And the Granite State Test benefit for
19 that is 4.24, and the Total Resource Cost
20 benefit-cost ratio is 4.18. Again, what's
21 included in that Total Resource Cost benefit is,
22 in addition to, basically, all the Granite State
23 Test benefits, it is including a non-energy -- an
24 NEI, a non-energy impact, that's added to it.

[UTILITIES WITNESS PANEL]

1 It's essentially an adder that helps to account
2 for those non-energy impacts.

3 Q Okay. Thank you. And could you maybe do the
4 same thing now for a C&I program?

5 A (Butler) Sure. So, for the Large Business Energy
6 Solutions Program for Eversource, again, on that
7 same page, same exhibit, the Granite State Test
8 benefit is 2.35, and Total Resource Cost Test
9 benefit-cost ratio is 1.44.

10 SPECIAL CMSR. ROSS: All right. Thank
11 you.

12 WITNESS BUTLER: You're welcome.

13 CHAIRMAN GOLDNER: Commissioner
14 Chattopadhyay, do you have any questions on this
15 topic?

16 CMSR. CHATTOPADHYAY: Yes, I do. Good
17 morning.

18 WITNESS BUTLER: Good morning.

19 BY CMSR. CHATTOPADHYAY:

20 Q So, let's go to Exhibit 48, Bates 021. And, you
21 know, you don't have to dig into the specific
22 numbers, you know, you don't have to go into the
23 Excel files or anything like that. But, if you
24 go to that page, I'm just choosing one of the

[UTILITIES WITNESS PANEL]

1 rows that is shown on Table 1.

2 A (Butler) Uh-huh.

3 Q And I want you to walk through, sort of describe,
4 let's say, let's go with the "Avoided generating
5 capacity costs"?

6 A (Butler) Uh-huh.

7 Q Okay? Tell me how would that be modeled, in
8 terms of capturing the benefits? And, like I
9 said, I don't want you to get into the specific
10 Excel files, but give me a sense, --

11 A (Butler) Sure.

12 Q -- like, okay, I'm going to look at the numbers
13 from this source, and apply that number to the
14 years, is the number the same for all years? So,
15 just give me a description. How do you model it?

16 A (Butler) So that the avoided gen -- or, the
17 avoided capacity costs, those are one of the
18 utility system benefits that we get from the
19 latest AESC report. The latest one came out in
20 2021, and those are what we have included in our
21 model. And, in the model, we take, essentially,
22 all of those levelized capacity cost benefits or
23 avoided costs, and those are applied to the --
24 those are applied to the capacity costs that

[UTILITIES WITNESS PANEL]

1 are -- I'm sorry, the avoided capacity is applied
2 to the capacity savings that we model through our
3 model.

4 So, each measure has a certain amount
5 of energy savings. That energy savings
6 translates to kW saved. That kW is then
7 multiplied by those avoided -- those avoided
8 capacity costs in the model, and those give us a
9 specific benefit per measure for avoided capacity
10 costs.

11 Q The number that you got from the source that you
12 mentioned --

13 A (Butler) Uh-huh.

14 Q Sorry. The number that you got from the source
15 you mentioned, is that number applied to each and
16 every year, as you're modeling it?

17 A (Butler) Yes.

18 Q The same number?

19 A (Butler) For each of the models, there's an
20 annual, essentially, number starting in 2021, and
21 going out, you know, I believe until 2045 or so
22 in the study. It's based on the measure life of
23 the measure. So, if a measure has a measure life
24 of five years, we would take into account the

[UTILITIES WITNESS PANEL]

1 benefits associated with each five of those
2 years, and then that would be -- that would be
3 the benefit, the full -- the full, again,
4 lifetime benefit. All benefits, I guess, are
5 expressed as kind of a full lifetime of that
6 measure.

7 A (Downes) This is Mary Downes. I might add that
8 this is specifically related to summer capacity
9 reductions. That's where the benefits are.
10 Winter capacity benefits are deemed to have no
11 benefit, because we're in a winter -- I'm sorry,
12 we're a summer peaking system. So, this is
13 developed, the avoided cost study, all of the
14 details of how that's developed is detailed in
15 the study itself, and it's based on analysis of
16 ISO and the Forward Capacity Market, and the
17 value of summer peak, as determined by the study
18 guide, in coordination with a very large regional
19 study group that is paying attention to all of
20 these details.

21 So, what we're using for the avoided
22 costs, or the benefits in this case, are similar
23 in nature to those that are being used by energy
24 efficiency program administrators throughout the

[UTILITIES WITNESS PANEL]

1 Northeast. And we each have our own avoided
2 capacity benefits based on the zone that we're in
3 within the ISO system.

4 Q So, is the number New Hampshire specific?

5 A (Downes) Yes.

6 A (Butler) Correct. Yes.

7 Q Again, keep the discussion sort of at a
8 philosophical level, okay? So, I have another
9 question.

10 Let's say you choose a program, and you
11 have two numbers, GST and the TRC. You look at
12 it, tell me what it -- what it gives you, in
13 terms of, okay, whether this program is good or
14 not, I know about the threshold, one, but give me
15 some color, in terms of, let's say, if the GST
16 shows up to be this, and how -- why would the TRC
17 be relevant, and how does that number still help
18 you judge a program?

19 A (Butler) So, the -- like, again, the Granite
20 State Test is the primary test. It is, you know,
21 essentially, how we judge cost-effectiveness in
22 the programs. But the Total Resource Cost, as a
23 secondary test, is essentially there to add
24 color, to help, you know, differentiate if, you

[UTILITIES WITNESS PANEL]

1 know, if there is a significant difference, you
2 know, then that might help in, you know, between
3 two different measures. It might help in that
4 selection.

5 But, again, you know, in statute, the
6 Granite State Test is, you know, what we look to
7 primarily, and that secondary test, again, would
8 be the -- would just be to add color.

9 Q Just to follow up on the same question. I've
10 read it in one of the testimony, but I just want
11 to make sure I understood that correctly. So, if
12 you had a GST that was less than 1.0, so, it's a
13 "no go", that's what you're saying. But, if the
14 GST is above 1.0, then you take a look at the
15 TRC, and then you might judge whether you should
16 move on?

17 A (Butler) Yes. I mean, well, it definitely
18 depends on the program. But we look to programs
19 to be above 1.0. Where, you know, where there
20 are exceptions to that would be in the Low Income
21 Program, as well as in the Municipal Program, you
22 know, where those are statutory dollars that must
23 be spent.

24 CMSR. CHATTOPADHYAY: Agreed. That I

[UTILITIES WITNESS PANEL]

1 understand.

2 CHAIRMAN GOLDNER: Okay. The Chair has
3 a couple of questions.

4 BY CHAIRMAN GOLDNER:

5 Q Can one of the witnesses just provide a
6 high-level summary of any industry reports or
7 academic literature that shows what programs have
8 been the most effective at reducing energy
9 consumption, and how those programs have been
10 evaluated? So, academic literature, industry
11 reports, anything that you can comment on there?

12 A (Peters) Thank you. Maybe I'll start, and I
13 probably won't think of everything, so someone
14 may need to fill in.

15 So, there are -- there are kind of two
16 ways to look at it. For our own programs, we, of
17 course, have our evaluation and measurement and
18 verification offerings, where we undertake third
19 party evaluations of our own programs, and how
20 they are working and what energy savings they are
21 achieving. So, we use those reports and
22 evaluations on a very regular basis, to ensure
23 that what we are doing is actually happening the
24 right way in the field, and the savings that we

[UTILITIES WITNESS PANEL]

1 are claiming is being achieved.

2 In terms of looking more broadly, at
3 how New Hampshire might compare to other states,
4 I would say, as just an overall point, you know,
5 each state has its own policy context in which
6 it's working. And, so, state-to-state
7 comparisons, while certainly possible and
8 insightful, are not usually an apples-to-apples
9 comparison, because each state may be pursuing
10 slightly different policy goals with its
11 programs.

12 One of the key reports that is used
13 nationwide to compare states is the ACEEE does a
14 ranking every year of energy efficiency programs.
15 And that ranking looks at -- actually, the
16 ranking itself doesn't focus just on efficiency
17 programs, it focuses more broadly on kind of
18 efficiency-type initiatives within states. So,
19 things like transportation and so on are also
20 included.

21 But, for our purposes, there is a piece
22 of that that is focused on energy efficiency
23 programs, similar to ours. They look at a number
24 of different factors: The level of savings

[UTILITIES WITNESS PANEL]

1 achieved, the dollars spent, the impacts that
2 those programs are having. And the states are
3 ranked every year. And there's a significant
4 amount of detail there as to how they review and
5 what they find.

6 So, we do look to those. New Hampshire
7 is kind of in the middle of the pack, towards
8 the -- or maybe in the top third usually.

9 Q I thought I read in the testimony, there was a
10 report where New Hampshire is ranked 11. Is that
11 a different report?

12 A (Peters) That's -- is that it? That's it.

13 Q Okay. Well, that's better than the middle.

14 A (Peters) Yes. We are usually in the top third.
15 You know, states that have significantly higher
16 targets for energy savings are usually ranked the
17 highest. But it does depend on, you know, states
18 that have smaller budgets, but still achieve
19 significant changes with those smaller budgets
20 are also noted.

21 So, that's kind of an important kind of
22 way to look at "How is our state doing compared
23 to other states?" Or, "What are other states
24 doing that we might want to take a look at, and

[UTILITIES WITNESS PANEL]

1 potentially, you know, adopt some of their
2 methods or outreach items or program offerings?"

3 Q So, it sounds like it's something that you are
4 actively looking at. You're looking beyond just
5 the Northeast, and you're looking across
6 different sort of industry reports, white papers,
7 this kind of thing, it's not confined to New
8 England?

9 A (Peters) That's correct.

10 Q Okay.

11 A (Downes) I would just add that we have developed
12 over the years multiple objectives for the
13 programs. So, you'll notice that the low income
14 programs are less cost-effective than the C&I
15 programs, for example. And that's because it
16 takes more effort, we're paying a larger -- we're
17 paying 100 percent of the rebate, and there's --
18 the benefits are not just energy benefits.
19 They're fossil fuels, they're health and safety,
20 they're providing a service to low-income
21 customers that has been deemed to be very
22 important to both stakeholders within this
23 docket, but also within the larger New Hampshire
24 community.

[UTILITIES WITNESS PANEL]

1 The same thing could be said about many
2 of our other programs. They're not just about
3 saving energy, they're about improving, you know,
4 the quality of productivity in a workplace,
5 they're about helping people access things that
6 they couldn't access on their own.

7 So, if we were to say what, you know,
8 what is saving a lot of energy? Lighting is a
9 good example, and lighting is now becoming
10 transformed in the marketplace. So, we're now
11 digging deeper to get to good projects and good
12 savings.

13 C&I has very good electric savings, and
14 that was part of the purpose of us increasing or
15 proposing to increase our budgets in that sector
16 in our original Plan. So, now, we're looking at,
17 you know, the other objectives that the programs
18 are aiming for, energy being, you know, number
19 one, but there are other objectives as well. So,
20 it's hard to say, you know, what's the best
21 program, because they're achieving different
22 ends.

23 A (Leménager) And just to clarify, the ACEEE
24 ranking for New Hampshire was 18th. The metric

[UTILITIES WITNESS PANEL]

1 you were referring to was a different study, a
2 different measure.

3 Q Okay. Do you know what measure the other one
4 was?

5 A (Leménager) Yes. I can pull that up.

6 A (Downes) It was a measure by the Department of
7 Energy, at the federal level, looking at,
8 basically, the economic efficiency, like how much
9 energy is used per dollar of the state's GDP.

10 Q Okay. Perfect. Thank you. Thank you for the
11 clarification.

12 Okay. Last question on the tests. So,
13 the next one is a tactical question. So, what
14 actions do the Companies take -- and we can
15 perhaps start with Eversource, and if somebody
16 wants to layer in, that's great. So, what
17 actions do you take if the GST statistic
18 approaches 1.0? So, ignoring pilots, low income,
19 municipal, are there tactical or operational
20 actions that you take when the statistical
21 approach is 1.0, because, you know, at that
22 point, it becomes, obviously, you know, below the
23 threshold?

24 A (Peters) Maybe I'll give a high-level answer, and

[UTILITIES WITNESS PANEL]

1 then James can fill in with the details, since he
2 does the modeling.

3 So, as we do the planning, and are
4 putting all of the measures into the Plan and the
5 programs, you know, James and his colleagues are
6 building up those plans, along with our
7 implementation teams, looking at how many of
8 these types of projects and measures did we
9 achieve in previous years? What do we think is a
10 reasonable number we could achieve in the next
11 year? Do we make adjustments to the incentive,
12 *etcetera*?

13 And, so, you end up, you know, creating
14 kind of a living version of the model while
15 you're doing the Plan, entering those things.
16 And then, you look at, you know, where does that
17 put our budgets if we were to do that many of
18 this measure? Where is the benefit-cost test
19 coming out? I think, if the benefit-cost test
20 was looking low in a particular program, we would
21 look to adjust, and say "Maybe we shouldn't put
22 so much effort and money towards those lower cost
23 measures." We'll still do them, but we'll put
24 more of our effort towards some of the measures

[UTILITIES WITNESS PANEL]

1 that are getting a higher benefit-cost ratio, in
2 order to balance out that program, make sure that
3 we're focusing our efforts in a way that
4 holistically, for the program, is going to ensure
5 that it is above 1.0.

6 Q I'm sorry, Ms. Peters. Just a quick
7 clarification. So, you look at shifting budgets
8 between programs, shifting dollars between
9 programs. Do you also look within the program
10 itself and say "Well, wait a minute, it's not
11 achieving what we want. Should we make changes
12 to the program?" I assume you do both?

13 A (Peters) Yes. Sorry. And it's kind of the
14 second that I meant, you know, if we were doing a
15 certain number of water heaters in the Products
16 Program, and, really, those water heaters were
17 not saving as much energy as, say, the
18 refrigerators were, and we said "oh, we're a
19 little heavy on water heaters, we should probably
20 move more of our effort towards the refrigerators
21 in the Plan, that would help balance it out."

22 And Mary is laughing a little bit, it
23 might be a silly example. But those are, like,
24 things that come to my mind when I think of

[UTILITIES WITNESS PANEL]

1 measures, from a high level.

2 So, I don't know if James might fill
3 in, since he does a lot of this work.

4 Q No, that's very helpful. I'll just ask the
5 follow-on question, is what happens if your
6 statistic falls below 1.0? So, again, we're
7 ignoring low income and municipal and pilots.
8 But, now, you're monitoring it, right? You see
9 the statistic falls below 1.0. Now what? What
10 happens next?

11 A (Peters) Yes. So, we would -- oh, sorry. We
12 would make those adjustments as we're doing the
13 planning process, and ensure that whatever we've
14 developed for the final Plan has measures and
15 programs that are cost-effective, and that we are
16 submitting a plan that meets all of our
17 cost-effectiveness objectives.

18 Q Oh, yes. No, I'm just saying -- I understand you
19 would only submit a plan if it was above 1.0.
20 But, as you get data, you say "Oh, my goodness,
21 it's coming in different than what I thought."
22 Do you kill a program if it goes to 0.8? Do
23 you -- what actions do you take if it falls below
24 1.0?

[UTILITIES WITNESS PANEL]

1 A (Peters) Right. So, for the actual results?

2 Q Yes.

3 A (Peters) Yes. So, we do look at, especially, we
4 have our quarterly reporting that we do, we also
5 do internal monthly reviews as the bills are
6 paid. As a program implementer, there are a
7 number of different levers and choices that you
8 can make. So, my team, for example, runs the
9 Home Performance Program. If we saw that the
10 Home Performance Program was getting low on its
11 cost-effectiveness, we might undertake a special
12 effort to market for some projects. We might say
13 "Let's go out and identify some customers that we
14 think have very high fuel use, and target them
15 specifically." Do a targeted campaign, to bring
16 in some more projects that are going to be really
17 cost-effective into the program. So, you're
18 looking kind of -- especially, it's important to
19 pay attention early in the year, so that you can
20 have the time to make those marketing type of
21 effects.

22 If it were something like the Products
23 Program, we could -- I think it would be unusual,
24 but you could take an action that would slow or

[UTILITIES WITNESS PANEL]

1 reduce the number of incentives that are
2 available for a certain measure, if you felt you
3 really needed to.

4 And, so, it really kind of depends on
5 the programs and the specific measures what
6 options you have, to kind of do that
7 push-and-take. But a lot of it is marketing,
8 some of it is contracts with vendors. You could
9 pull back and say "Actually, we don't want to
10 spend that much on, you know, midstream lighting
11 or whatever it is this year. We're going to
12 adjust our contract."

13 So, there's different ways for
14 different programs that you can make those
15 adjustments, and keeping an eye on it throughout
16 the year is important.

17 A (Downes) I just might add that we actually have,
18 for all the programs, we have project level
19 screening tools. And, so, we're actually
20 monitoring cost-effectiveness of projects as
21 we're approving them throughout the year. So
22 that we really do have our finger on the pulse of
23 how the programs are doing in real-time during
24 the year as we're approving projects.

[UTILITIES WITNESS PANEL]

1 Q Okay.

2 A (Stanley) Can I add?

3 Q Yes. Please.

4 A (Stanley) This dynamic and challenge is something
5 that we manage regularly. It's a core component
6 of managing the programs. We have numerous
7 examples over the years where, particularly for
8 Liberty, in our gas portfolio, where we've had to
9 make sizable changes to implementation
10 approaches, because the plan that we filed, it's
11 depicting a certain measure mix of activity for
12 the year. But what we forecast is never entirely
13 exact to what we actually achieve.

14 And we've had examples, particularly
15 Ms. Peters referenced the water heater example,
16 where several years ago the water heater measure
17 is typically a borderline cost-effective measure
18 within our gas portfolio. And we were receiving
19 a high volume of those units. We had to take a
20 step midway through the year of completing
21 shutting down that offering for customers. And
22 we had to pivot to marketing more to heating
23 systems, smart thermostats, in order to change
24 the cost-effectiveness outlook for that program.

[UTILITIES WITNESS PANEL]

1 So, those are approaches that we've
2 taken in the past. It's an ongoing challenge,
3 because not every measure has the same type of
4 cost-effectiveness. There's varying ranges. And
5 we strive for the most cost-effective measures,
6 and getting a large volume of those. But we
7 can't always fully predict that and reflect that
8 in our assumptions.

9 Q Thank you.

10 A (Downes) I would just add that the measure mix,
11 we need a measure mix, because customers are
12 going to be at different places and need
13 different things. And we're trying to hit the
14 market at various places. So, the reason we
15 might want to continue offering a marginally
16 cost-effective water heater, is because that's a
17 lower -- lower cost of entry for customers. And,
18 so, if they get a high-efficiency water heater,
19 even though it may not be highly cost-effective
20 for the program, it leads them to the next higher
21 efficient heating system, or, you know,
22 weatherization. So, there's a trade-off between
23 sort of that lost leader and the measure mix in
24 general.

[UTILITIES WITNESS PANEL]

1 So, as Eric has described, and Kate as
2 well, it's a -- we're balancing and, you know,
3 weighing a lot of different things, in terms of
4 attracting the market to higher efficiency units,
5 while maintaining a portfolio of programs that
6 can reach everybody.

7 Q And it sounds like you're -- you have sort of a
8 real-time evaluation going on. So, that it
9 sounds like all the utilities are on top of it.
10 If programs aren't working out or if something
11 doesn't look right, you're making real-time
12 adjustments, which is encouraging.

13 The statistic of 1.0, and we'll talk --
14 this is a nice segue into the next topic, which
15 is discount rates. I have one more question
16 before we get there. But, because the discount
17 rate is so low, I think it's one and a half
18 percent, if you fall below 1.0, that means your
19 costs -- your current costs, pardon me, are
20 greater than the return, the overall return. So,
21 that's a very dangerous threshold, if you cross
22 below 1.0, it actually means your costs basically
23 exceed your revenue, if I can call it that, or
24 your benefit.

[UTILITIES WITNESS PANEL]

1 So, we'll talk about discount rates in
2 a moment. But I think that number 1.0 is
3 something that's -- it seems to me a very hard --
4 a very hard cutoff point.

5 So, a last question on this, before we
6 transition to discount rates, is how do you
7 measure goodness or success for your pilots, your
8 low income, pardon me, or your municipal
9 programs? In other words, those programs that
10 aren't judged against a threshold of 1.0, how do
11 you judge goodness? How do you know if you're
12 being successful or not?

13 A (Peters) Thank you. So, we do pay attention to
14 cost-effectiveness for those programs as well,
15 but the entire portfolio, including those
16 programs, also needs to meet a cost-effectiveness
17 of 1.0. So, even if there is an exception where
18 we could have actuals that are below 1.0 --

19 Q I'm sorry, Ms. Peters. We had a quick -- can you
20 start off again please?

21 A (Peters) Oh, certainly.

22 Q I'm sorry.

23 A (Peters) Yes. So, there are a couple things. We
24 do pay attention to the cost-effectiveness

[UTILITIES WITNESS PANEL]

1 definitely for those programs also, because the
2 portfolio, even including those programs, also
3 has to be above 1.0. And, so, if we let them get
4 too low, it would create a dragging effect on the
5 entire portfolio. And, so, those programs, while
6 there's an exception, in terms of, you know, they
7 could fall below 1.0 in actuals, we need to pay
8 attention to that, because we need to make sure
9 that the whole portfolio is still sustaining and
10 maintaining that above 1.0 position.

11 The other thing for those programs that
12 are important, there are statutory guidelines, in
13 terms of the dollars that we spend. But then we
14 do the reporting, the quarterly reports, the
15 annual reporting, and I think stakeholders have
16 shown there's a high number of interest in
17 understanding how many customers are we serving,
18 what types of projects are we doing within
19 municipalities that are helping those municipal
20 governments and taxpayers.

21 And, so, there's a lot of the -- kind
22 of less cost test specific, but more, I guess,
23 items related to achievement, of who we're
24 helping, how we're helping them, what are the

[UTILITIES WITNESS PANEL]

1 energy savings that they have achieved, what are
2 the cost savings that they have achieved. And,
3 so, we look at all of those things in our
4 quarterly and annual reporting.

5 Eric has an addition.

6 A (Stanley) Sorry. Thank you. Just one addition
7 specific to the Home Energy Assistance for Low
8 Income Program is a metric we look at across the
9 utilities, is ensuring that there is an
10 appropriate balance of markets being served
11 across the state, so that not all of the
12 investment is happening in one particular region
13 or area.

14 So, that's another element I think
15 that's important. And also within the municipal
16 program, too, since you have a wide range of
17 municipal-type customers.

18 CHAIRMAN GOLDNER: Thank you. Any
19 other comments from the Utilities on this topic?

20 *[No verbal response.]*

21 CHAIRMAN GOLDNER: No? Okay. We're
22 going to take a quick stenographer break, coming
23 back at 10:30, and pick up with Commissioner
24 Chattopadhyay with some questions relative to

[UTILITIES WITNESS PANEL]

1 discount rates. So, off the record. Back at
2 10:30. Thank you.

3 *(Recess taken at 10:18 a.m. and the*
4 *hearing resumed at 10:33 a.m.)*

5 CHAIRMAN GOLDNER: Okay. We'll
6 continue with the Commissioner questions. We're
7 targeting, our stenographer is wounded, so, we'll
8 go to about noon for our stenographer, and just
9 go from now till then.

10 So, we'll pick back up on the record
11 with discount rates. And we'll begin with
12 Commissioner Chattopadhyay.

13 CMSR. CHATTOPADHYAY: Again, it's not
14 directed specifically to anyone, but whoever
15 wants to jump in and provide some clarity, that
16 will be helpful.

17 BY CMSR. CHATTOPADHYAY:

18 Q I think one of the things that kind of bothers me
19 about the discount rate that has been used, it's
20 1.4 or 1.5 percent, whatever it is, with the
21 current situation with inflation and all of that,
22 I'm just curious whether the approach that was
23 relied upon is the right approach. And can you
24 just give us a sense of the factors the utility

[UTILITIES WITNESS PANEL]

1 had considered and what research it had done to
2 come to the determination of what the discount
3 rate was?

4 A (Butler) Thank you. So, we arrived at a real
5 discount rate to calculate the net present
6 values, and, in doing so, we use a nominal
7 discount rate and the inflation rate. The
8 nominal discount rate was based on the June 2021
9 prime rate. And that's in accordance with the
10 Final Energy Efficiency Report from 1999. So, we
11 retrieve this on a yearly basis, or whenever we
12 make updates, and it's based on the most recent
13 June prime rate for our nominal discount rate.

14 The inflation rate is based on, in this
15 model, the inflation rate from Q1/2020 to
16 Q1/2021. And that's, again, based on past
17 precedent, when we typically update the inflation
18 rates. When we submitted these, the inflation
19 rate for Q1/2022 has not been published yet. So,
20 this was what we used.

21 The nominal discount rate was 3.25.
22 The inflation rate was 2.03. And, so, for 2022,
23 the real discount rate that we used was 1.19.
24 That's what the calculation worked out to.

[UTILITIES WITNESS PANEL]

1 Q Just a follow-up. So, if you were doing the same
2 analysis right now, what kind of number would you
3 get for the real discount rate?

4 A (Butler) Well, I know that the nominal discount
5 rate is about 3.5. I believe it's currently 3.5,
6 and, you know, again potential going up soon.
7 And, again, the inflation rate, you know, I
8 believe if we were to look at Q4/2021 versus
9 Q4/2020, you know, that was in the range of about
10 5 percent, maybe a little more than 5 percent.
11 In that case, because inflation outpaced the real
12 discount rate, that would leave you with a
13 negative real discount rate.

14 Q Okay. So, just sort of a follow-up, but this is
15 my second question. So, you mentioned the Final
16 Energy Efficiency Group Report that was done in
17 1999.

18 A (Butler) Correct. I have the docket for that as
19 well. I'm sorry.

20 Q So, I -- you know, do you, maybe you weren't
21 involved at that time, but I'm just curious
22 whether other methodologies were looked at at
23 that time? Because, clearly, if you're going to
24 have a discount rate just going from one end to

[UTILITIES WITNESS PANEL]

1 another, and, as an economist, I can tell you
2 that I'm going to think about what the discount
3 rate customers actually, in the real world, think
4 of, and what we have is a concern for me.

5 So, I'm trying to understand, are there
6 other methodologies that the Utilities have
7 looked at?

8 A (Butler) No. And, again, I think, because, you
9 know, the Final Energy Efficiency Report was part
10 of an order in Docket DR 96-150, I believe, and
11 we have followed that precedent. We have done
12 annual updates, essentially, to, you know, to
13 take into account, you know, that particular time
14 period in which we're filing the plans. So,
15 we've, you know, essentially relied on past
16 precedent.

17 CMSR. CHATTOPADHYAY: Okay.

18 CHAIRMAN GOLDNER: Okay. The Chair has
19 a couple of questions.

20 BY CHAIRMAN GOLDNER:

21 Q So, maybe we'll start with Eversource. And, if
22 you can just share your discount rate at the
23 Company level, when evaluating capital, and then
24 your discount rate in energy efficiency, and

[UTILITIES WITNESS PANEL]

1 maybe share why those are different?

2 A (Peters) Sorry, we're exchanging glances. I
3 don't believe that any of the witnesses here know
4 the Company level rate. We'd need to take that
5 as a record request in order to get you the
6 accurate answer.

7 Q We're on a tight timeline. I think your weighted
8 average cost of capital is probably seven and a
9 half, or something like that, for your capital in
10 your rate case would be something in that
11 ballpark, right? You can just ballpark it.

12 A (Paruta) Yes.

13 Q Something like that? Yes.

14 A (Paruta) Yes. Something around that, I think.
15 Yes. That's about right. Subject to check, it
16 would be in that range.

17 Q Cost of debt is 4, so, cost of equity is 9
18 something, right? So, something like 7 -- so, we
19 can just use that for discussion, we'll just call
20 it "seven and a half" or something. And I'm just
21 trying to understand. Obviously, one is much
22 higher than the other. So, I'm just trying to
23 understand the Company's position or point of
24 view on why those are different?

[UTILITIES WITNESS PANEL]

1 A (Butler) I mean, yes, I believe, as I had stated,
2 in the model, you know, this is -- this is how we
3 calculate the net present value. This, again,
4 follows a methodology that is laid out in the
5 AESC for calculating the real discount rate. So,
6 that's how we follow that for the energy
7 efficiency programs.

8 A (Downes) I would just add that this is not
9 dissimilar from how the Massachusetts energy
10 efficiency programs are designed. The 2021
11 nominal discount rate in the Massachusetts Plan
12 is 2.33 percent.

13 Q Yup. Yup. Thank goodness we're no longer a
14 Massachusetts colony. So, we're feeling
15 comfortable on that front.

16 Okay. So, basically, we've -- and the
17 reason I'm asking is, you have one cost of
18 capital -- one discount rate for capital
19 investments that's higher for your discount rate
20 for EE investments, and we're about to talk about
21 the performance incentive as one of our follow-on
22 topics. So, I just want to point that out.

23 Okay. The last question on this topic
24 is, do the Companies believe that the long-term

[UTILITIES WITNESS PANEL]

1 discount rates are the same for participants and
2 nonparticipants?

3 A (Leménager) I believe the answer would be "yes".

4 Q Okay.

5 A (Leménager) The program costs are collected
6 across all customers, so, participants and
7 nonparticipants. I think that one point that is
8 nice to make is that participants in one year may
9 be nonparticipants in another, and vice versa.
10 Where somebody who does not purchase an appliance
11 this year, may very well be a participant in the
12 programs in the following year.

13 CHAIRMAN GOLDNER: Okay. Okay. Very
14 good. Or, they're waiting for a Liberty water
15 heater, one or the other.

16 Okay. Very good. So, the answer there
17 is that those are viewed as being the same
18 number. Thank you for that.

19 We do have a question on
20 nonparticipants specifically from Commissioner
21 Ross.

22 BY SPECIAL CMSR. ROSS:

23 Q So, just observing that RSA 374-F:3, VI, requires
24 the Commission to ensure that the Systems

[UTILITIES WITNESS PANEL]

1 Benefits Charge rates are "implemented in a
2 manner that benefits all customers equitably and
3 does not benefit one customer class to the
4 detriment of another. Costs should not be
5 shifted unfairly among customers."

6 With that statutory standard in mind,
7 how do the Utilities analyze the impacts on
8 nonparticipants to ensure there's no unfair
9 burden or cost shift of the SBC onto them?

10 A (Leménager) So, the Utilities, when offering
11 their programs, ensure that there are program
12 offerings available to every customer class. So,
13 residential customers, C&I, and all customers --
14 all class segments and rate classes within C&I,
15 as well as our municipal customers. So, we have
16 program opportunity available for every single
17 customer. And the cost -- unfair cost shifting
18 is avoided in the programs by having these --
19 there's the statutory carve-off for the
20 income-eligible programs and the municipal
21 programs being funded through RGGI funding.

22 Q Yes.

23 A (Leménager) But all remaining funding remains
24 within its customer segment. So, residential

[UTILITIES WITNESS PANEL]

1 customers paying into the programs, those dollars
2 collected are kept within the residential
3 programs. And then, likewise for C&I, with the
4 exclusion of that low income piece that needs to
5 be collected for the HEA programs, all C&I
6 revenues collected remain in the C&I sector for
7 program offerings for those customers.

8 CHAIRMAN GOLDNER: Thank you.
9 Commissioner Ross is making some notes. But is
10 there any follow-on on that one, Commissioner
11 Ross?

12 SPECIAL CMSR. ROSS: Thank you. No.

13 CHAIRMAN GOLDNER: Okay.

14 SPECIAL CMSR. ROSS: I think I'm --

15 BY SPECIAL CMSR. ROSS:

16 Q I guess the only follow-up I would ask is, is
17 there a point at which the SBC rate would be high
18 enough that you would determine that it would be
19 an unfair shift to nonparticipating customers?

20 A (Leménager) I think with the passage of HB 549,
21 we have a dedicated calculation for the increase
22 in the SBC rate and LDAC rate on an annual basis.
23 So, it's not really up to us --

24 Q That's fair.

[UTILITIES WITNESS PANEL]

1 A (Leménager) -- to propose a different rate.

2 SPECIAL CMSR. ROSS: Yes. That's fair.
3 You do have a policy determination now. Thank
4 you.

5 CHAIRMAN GOLDNER: Well, thank you,
6 Commissioner Ross. I was just -- I did a poor
7 job of segueing into performance incentives. I
8 think we have some questions from each
9 Commissioner, beginning with Commissioner Ross on
10 this topic.

11 BY SPECIAL CMSR. ROSS:

12 Q Okay. Referring to Table 5-1 and 5-2 of the
13 Proposed Plan, which I believe are Bates
14 Pages 088 and 089, could you walk through an
15 example using 85 percent -- an 85 percent savings
16 level? What is the rationale for awarding a
17 performance incentive for categories where the
18 performance is below the energy efficiency level
19 assumed in the Plan?

20 A (Peters) Just to clarify, are you asking "if the
21 threshold were 85 percent" or "if we had achieved
22 85 percent of a target"?

23 Q If you had achieved 85 percent.

24 A (Peters) Certainly. So, as my colleague, Mr.

[UTILITIES WITNESS PANEL]

1 Stanley, and others were discussing before, the
2 Plan is a plan, and we make every effort to
3 create plans for program offerings that we will
4 actually achieve in the field. But, as you get
5 into the marketplace, customers sometimes decide
6 to do different things than you thought they
7 would, or there's a different level of interest
8 in different areas. Or, you know, 2020 is an
9 example, things happen in the world that you did
10 not anticipate in your Plan, in terms of what
11 might be achievable during a giving year.

12 And, so, the PI Working Group actually
13 spend a significant amount of time thinking about
14 these minimum thresholds. When should the
15 earning of the PI be able to start, in terms of
16 the achievement of savings?

17 It used to be, actually, that the
18 lifetime and annual savings had a 65 percent
19 threshold, and that was increased by the PI
20 Working Group through that discussion to the
21 current 75 percent.

22 So, it acknowledges that there is a
23 goal. The Utilities are incented to achieve the
24 full 100 percent of the goal. But achieving 85

[UTILITIES WITNESS PANEL]

1 percent of the goal is not necessarily a failure.
2 It is a significant achievement of energy savings
3 in the marketplace. And I will use 2020 again as
4 an example, because I don't think Eversource
5 achieved 100 percent of its savings targets in
6 2020. But we did pass the minimum threshold.

7 And, so, when you begin earning, the
8 coefficient is not -- that gets applied, you
9 don't earn your full performance incentive for
10 achieving 75 or 85 percent. You earn a lower
11 portion of that. You don't earn the full amount
12 until you achieve 100 percent. And, so, it
13 encourages the utility to meet the threshold, and
14 continue beyond the threshold towards 100, or, if
15 possible, past 100 percent. Acknowledging that
16 there is a range of opportunity in the
17 marketplace, and different factors may come into
18 play, you always want to be encouraged to achieve
19 more, at a reasonable value. But it is not a
20 failure of the programs if you achieve something
21 slightly less than 100 percent of the goal. But
22 the customers still benefit from the delivery of
23 the programs. And, so, the performance incentive
24 is available, as long as you're above the

[UTILITIES WITNESS PANEL]

1 threshold, but you're not going to earn the full
2 amount.

3 So, it's kind of a direct relationship.
4 If you haven't achieved your full goal, you're
5 not going to earn your full amount. But there is
6 a threshold at which you're able to start
7 earning.

8 Q And, so, do the Utilities believe that this
9 structure actually incentivizes the Utilities to
10 maximize efforts or do you think it just gets
11 them to the minimum floor?

12 A (Peters) Oh, it absolutely encourages maximizing
13 efforts. If you meet just the minimum threshold,
14 you are not earning your full incentive amount.
15 And, for individual program staff, the point is
16 not so much that their goal is a certain amount
17 of performance incentive, but they need to
18 understand the energy savings objectives that
19 they're trying to achieve with their programs.
20 Everyone who is operating a program or working
21 with our vendors or working with our customers
22 needs to understand what it is during that year
23 that they are striving to achieve. So that, if
24 they're not achieving it, they can make the

[UTILITIES WITNESS PANEL]

1 appropriate adjustments to try to get there. And
2 having a performance incentive structure with
3 thresholds, but escalating to that 100 percent
4 earning and escalating beyond that to kind of
5 very high achievement, gives the Company
6 directive, but it also flows down and gives the
7 staff a direction in terms of where they're
8 supposed to be working, where their efforts are
9 supposed to be going. If it's not going right,
10 working with management to make those
11 adjustments, so that we are, in fact, achieving
12 the goals and objectives of the Plan. And those
13 goals and objectives are primarily the 5 for
14 electric and 3 for gas target components that are
15 laid out in the performance incentive for us.

16 A (Leménager) And just --

17 Q And could I just ask a follow-on? I'm sorry, I
18 didn't mean to interrupt. But, for Eversource,
19 just for example, if the minimum -- if you meet
20 the minimum, you get 5.5 percent, is that --

21 A (Peters) No.

22 A (Leménager) No. It would be around 4 percent.

23 Q Okay. And, if you max out, you're at 6.8?

24 A (Leménager) Correct. 6.875 is the maximum PI.

[UTILITIES WITNESS PANEL]

1 Q And the minimum is again?

2 A (Leménager) It's around 4.

3 Q So, what is the spread between the minimum and
4 the maximum in dollars for Eversource? Can you
5 give me a ballpark?

6 A (Peters) We're going to reference the --

7 Q Okay. And while he's getting that number, let me
8 ask one other follow-up. Do the employees who
9 work in the programs earn a bonus, if they manage
10 to bring the programs in at a higher level of
11 performance?

12 A (Leménager) No. The annual bonus payout for all
13 Eversource employees is based off of Company
14 earnings. It has nothing to do with performance
15 of energy efficiency programming.

16 Q Okay. Do you have the number for Eversource?

17 A (Butler) Yes. For 2022, the difference for
18 Eversource between meeting the minimum and
19 meeting the maximum would be in the neighborhood
20 of about 1.1 million.

21 SPECIAL CMSR. ROSS: Okay. Thank you.
22 That's helpful. I'm sure it would be lower for
23 the other companies, because they have lower
24 budgets.

[UTILITIES WITNESS PANEL]

1 Okay. Thank you. That's all I have
2 for now.

3 CMSR. CHATTOPADHYAY: So, I have a
4 couple of questions.

5 BY CMSR. CHATTOPADHYAY:

6 Q Do you -- have you sort of looked at how the PI
7 Program is set in other states? Can you give me
8 a sense of, like, can you compare New Hampshire
9 with other states, including the ones in New
10 England?

11 A (Peters) So, during the Performance Incentive
12 Working Group, there was a significant amount of
13 review of other states' incentive structures. I
14 likely do not recall them all completely
15 correctly at the moment, because I haven't looked
16 at that report itself in a while. Some states
17 use the -- they kind of create a pool of dollars
18 that is set aside as a performance incentive, and
19 then utilities can earn from that pool of
20 dollars.

21 I think most states, at least here in
22 New England, have some structure of a set of
23 goals, and a target performance incentive, and
24 then the minimum thresholds you need to meet to

[UTILITIES WITNESS PANEL]

1 achieve those goals. What those components and
2 targets are slightly differs, because some of
3 that kind of comes into the state policy that is
4 directing the goals and targets of the programs.

5 But, from my recollection of that
6 discussion in the Performance Incentive Working
7 Group, most states in New England have a PI
8 structure that is, at a high level, similar to
9 the one that we use.

10 Q Can you explain further what you meant by "pool
11 of dollars"? Is it like a pot of dollars that is
12 later allocated between the different utilities,
13 depending on how they have performed? I'm just
14 trying to get a sense of what you mean by that
15 term?

16 A (Downes) I can speak to the Massachusetts model,
17 because we are also -- Unitil is also operating
18 in Massachusetts.

19 So, in Massachusetts, there is a pool
20 of dollars that's set or agreed to during
21 settlement that will be the design level across
22 the entire Commonwealth, that is just that, the
23 design level. And it's based on -- it's now
24 based on a number of different things, and I

[UTILITIES WITNESS PANEL]

1 won't go into the complication of it, but each
2 program administrator that is undertaking
3 efficiency programs gets a share of that pool
4 based on the level of benefits that they're
5 delivering to customers.

6 And, so, in reality, when we go to
7 report on our actual achievement, we use the
8 payout rate that was established at the
9 beginning, per dollar of benefit, I'm
10 oversimplifying, that was realized. So, it could
11 be more or less. But there's both a threshold
12 and a cap, as there is here in New Hampshire.
13 And it is roughly 75 percent threshold to
14 achieve, to begin achieving performance
15 incentive, and it's -- there's, again, this is
16 oversimplifying, but there's a 125 percent cap on
17 achievement of what was proposed.

18 Q So, that pool of money is not necessarily based
19 on your outlay of, you know, to begin with,
20 right? I mean, it's -- that's what I'm trying to
21 understand. Is it a determined number, this is
22 what the pool would be, and then we have some
23 sort of a matrix to look at how the different
24 program administrators performed? And then, you

[UTILITIES WITNESS PANEL]

1 know, you have a -- kind of a matrix, very
2 similar. But, just give me a sense of, when you
3 say "pool of money", is that -- is that related
4 to how much you end up spending, rather than, you
5 know, --

6 A (Downes) Only indirectly. So, there is -- a
7 component of the performance incentive is net
8 benefits in Massachusetts, or the value
9 component, which we have here as well. So, if
10 you overspend, presumably, your net benefits are
11 going to shrink, right, all else being equal.
12 However, the pool is the pool. And, so, the
13 payout rates remain static, from the time it's
14 approved, the plan is approved, to the time that
15 you are reporting.

16 I do want to come back to the work that
17 the PI Working Group in New Hampshire did. It
18 was an extensive amount of work. And I believe,
19 maybe someone can help me find the reference, but
20 I believe it is included in the attachments to
21 the Plan. And it did look at other states. It
22 recommended that we continue to look at other
23 states and their -- and the way that they value
24 risk, for example, with the discount rate.

[UTILITIES WITNESS PANEL]

1 But that was a very lengthy and
2 thoughtful process that involved a number of
3 stakeholders, including now DOE, which was then
4 PUC Staff. And it was a comprehensive and
5 unanimous report that went to the Commission and
6 was approved, as part of the whole framework for
7 the PI -- the PI mechanism. And we did, at that
8 time, make significant changes to the mechanism
9 that had been in place up to that time.

10 So, I just want to make it clear that
11 there's a lot of work that's already been done to
12 go into the thinking behind that framework.

13 Q A very quick sort of offshoot of my question, I
14 mean, essentially driven by the previous
15 discussion in response to Commissioner Ross's
16 questions.

17 So, when you think about -- let's say
18 you have 65 percent to 125 percent. Are the PIs,
19 the percentages, are they precisely given, like,
20 for 65 percent, it's going to be this much, and,
21 for 75, it's going to be this much? Or is it
22 based on some sort of a calculation?

23 A (Peters) Can we just clarify, are you asking that
24 question about the Massachusetts pool model or --

[UTILITIES WITNESS PANEL]

1 Q No, I'm sorry. We're going back to where things
2 matter most, New Hampshire.

3 A (Downes) So, in our -- in our Plan, we have a PI,
4 you know, worksheet that shows very explicitly
5 what the calculus is. So, there's several
6 different components. They each have a minimum
7 threshold. There's a coefficient that gets
8 multiplied based on your actual achievement, and
9 then there's a max. The max, if you do really
10 well on one of the components, you max out on
11 that, and you can't earn any more on that
12 component.

13 I'm sorry, I may not be answering your
14 question.

15 Q I understand that. Like, you have weightages,
16 different, you know, attributes, and you -- all
17 of that I do understand.

18 A (Downes) Okay.

19 Q Ultimately, you get a specific number, and I'm
20 assuming that's what you do. And what I'm asking
21 is, whether there is a table that tells us, for
22 65 percent, this is the PI percentage; for 75
23 percent, it's this? That's what I'm asking.

24 A (Peters) So, the amount earned based on the -- it

[UTILITIES WITNESS PANEL]

1 has two components. It's your actual spend,
2 which could vary, and then it's "did you meet the
3 threshold?" And what weight does that particular
4 line have within the total calculation, etcetera.

5 So, we have, in the Plan, we have
6 tables that calculate the benefit or the
7 performance incentive, the target. But, in the
8 benefit-cost models, the live Excel models that
9 were submitted, you probably could undertake the
10 exercise of seeing what would happen at different
11 pieces, we haven't laid out any specific table of
12 scenarios. But the live Excel spreadsheet is
13 available and the benefit-cost models that does
14 those calculations, if that's helpful.

15 A (Leménager) And Bates 525 is Eversource's, in
16 Exhibit 47, Bates 525 is Eversource's Performance
17 Incentive calculation. And there are a number of
18 variables, since there's the components in the PI
19 formula. All of those variables are actuals
20 versus planned. So, if you were to do -- if you
21 could change one of them to 65 percent, you could
22 come up with a number. But, then, in reality,
23 what's probably going to happen, if you spend
24 less, for example, the savings will be lower as

[UTILITIES WITNESS PANEL]

1 well. So, all of the variables will shift as
2 well.

3 Q Thank you. That's helpful. The Joint Utility
4 testimony talks about the need for "exemplary
5 performance", it's Exhibit 48, Bates Page 012.
6 Don't need to look at it, but just I'm asking to
7 the Utilities, do you agree that this is a
8 requirement to avail the PI?

9 A (Peters) I think the performance incentive
10 structure serves as a marker and an indication to
11 the Utilities and our staff as to what does
12 "exemplary performance" mean in the context of
13 these programs. So, we have worked with
14 stakeholders and the Commission over the years to
15 identify the primary goals of what we're supposed
16 to achieve. And those goals are incorporated in
17 the performance incentive. And there's a
18 structure there to tell us -- kind of to
19 encourage us to keep achieving and achieve beyond
20 those particular goals.

21 You'll notice in that chart on Page
22 Bates 088 there, the lifetime savings has an
23 incentive weight of 35 percent, which is the
24 highest incentive weight, and the value component

[UTILITIES WITNESS PANEL]

1 has that 35 percent weight; the annual savings
2 has a 10 percent; and the summer and winter peak
3 have 12 and 8.

4 And, so, as we look at that chart, the
5 policy direction that it gives us is lifetime
6 savings and value to these programs are the two
7 primary things that we need to focus on. But we
8 also need to focus on annual savings. We also
9 need to focus on achieving summer and winter peak
10 demand.

11 And, if we can, if it's possible, we
12 should work to try to overachieve our planned
13 goals in all of those categories. And, so,
14 that's -- I think it's a mechanism for laying out
15 for us, in a kind of numerical way, what are we
16 trying to achieve, and that kind of guides our
17 program development and implementation.

18 CMSR. CHATTOPADHYAY: At least I have
19 your answer, but, you know, I will interpret it
20 differently.

21 But, anyway, you can go ahead. Yes.

22 BY CHAIRMAN GOLDNER:

23 Q So, let's -- if we can just, if you don't mind,
24 go to Bates 088, Exhibit 47, the table that we're

[UTILITIES WITNESS PANEL]

1 talking about here. And let's just take the
2 simplest of examples, just to make sure the
3 Commission understands how the calculation is
4 done. So, let's say, on PI Number 1, the minimum
5 threshold, "75". So, let's say you achieve
6 exactly 75 on that threshold. But you don't
7 achieve any of the other thresholds on PI 2, 3,
8 4, or 5. So, it's just 75 percent on PI Number
9 1. What would your percent -- what would your PI
10 be?

11 A (Leménager) So, the weighting on it, you would
12 apply the 35 percent to our PI amount. So, I
13 think the weighting would be roughly just under
14 2 percent of PI, if we just targeted -- for
15 example, just able to target one aspect of PI.

16 Q So, let me just -- let me expose the way I did
17 the math, and I think you're going to correct me.
18 So, I thought what you said was that the minimum
19 threshold was about 4 percent. This incentive
20 weight is 35 percent. So, 35 percent of 4 is 1.3
21 percent, something like that. Would that be --
22 am I doing it right?

23 A (Downes) It might be easier, if you look on -- we
24 referenced it earlier, the actual PI table in the

[UTILITIES WITNESS PANEL]

1 attachment to the Plan, on Bates --

2 Q If you don't mind, I'd like to stay just on the
3 simple table.

4 A (Leménager) Yes.

5 A (Downes) Okay.

6 Q My simple mind needs to focus on the simple
7 table. The other one is a little --

8 A (Downes) There's a percentage right there that
9 will answer your question.

10 Q Oh, that's okay. If you could just share with me
11 the percentage, I can make a note. I'd just like
12 to focus on the simple table.

13 A (Downes) Okay.

14 A (Leménager) So, if you go to Bates 089, just on
15 the very next page, --

16 Q Okay.

17 A (Leménager) -- it lays out some of the
18 descriptions.

19 Q Yes.

20 A (Leménager) And the second bullet, there's a
21 parenthetical at the end of it, noting that you
22 have to apply the weighting. You're not going to
23 give 4.4 percent just on that amount. It's 4.4
24 percent in the aggregate. So, if you're applying

[UTILITIES WITNESS PANEL]

1 the weighting, you're looking at a target of
2 1.925 percent for -- oh, sorry.

3 Q So, if you meet the minimum, you get 1.925. Is
4 that what the parenthetical is telling us?

5 A (Peters) I think maybe we're having a difficult
6 time with this, because all of these assumptions
7 are kind of assuming that you have spent your
8 entire budget, which is the other piece of the
9 calculation. Then, if you spent your entire
10 budget, only achieving the lifetime savings,
11 which, I think, in practice, is not possible,
12 because the measures that achieve lifetime
13 savings also achieve annual savings, and also
14 achieve the winter and summer. So, we may just
15 be having a little trouble in our minds working
16 it out exactly.

17 Q Well, you could -- I mean, maybe. But, I mean,
18 couldn't you spend your funding, and then not
19 achieve the lifetime savings? For example, you
20 might, you know, it's a bad year, right, for
21 whatever reason, you don't achieve it.

22 So, I can see -- so, let's assume you
23 spend your full budget, for purposes of this, you
24 know, sort of clarification, you spend your full

[UTILITIES WITNESS PANEL]

1 budget, and you just achieve 75 percent on PI
2 Number 1. I'm just trying to make sure I
3 understand roughly what the bonus would be.
4 Doesn't have to be to the third decimal place.
5 A (Stanley) Kate, I've got it.
6 A (Peters) Eric has got it.
7 Q Okay. Great.
8 A (Stanley) Thank you. Yes. So, it would simply
9 be 75 percent times the design coefficient value
10 that's referenced, the 1.925. So, it would be
11 1.4437 percent would be the rate of earnings for
12 the utility in that circumstance. So,
13 essentially, 75 percent of that design
14 coefficient value.
15 Q Okay. Okay. So, why, though, it just seems
16 overly complicated. Like, if you have an
17 incentive weight, why wouldn't you just have --
18 my encouragement would be, in the future, to make
19 this simpler. So that, if you say the incentive
20 weight is X percent, the minimum threshold is Y
21 percent, you know, you start getting a bonus
22 based on 75 percent, it's, you know, 4 percent,
23 whatever it is, just highlight that in a table.
24 I don't think it -- this is a nice, simple table.

[UTILITIES WITNESS PANEL]

1 And, then, you have to go to, you know, Bates
2 Page 6004 to figure out what the actual, you
3 know, calculation is. It's, I think, in my
4 opinion, overly complicated.

5 But let me try one more time. So, if
6 this scenario that I just -- that I just
7 expressed is achieved, I think you suggested the
8 overall bonus for that particular utility would
9 be I think you said "1.4 percent", something like
10 that?

11 A *(Witness Stanley nodding in the affirmative).*

12 Q Okay.

13 A *(Stanley)* Correct. Yes.

14 Q Thank you. Okay.

15 A *(Stanley)* It's the same -- that arithmetic,
16 whether you were to say if we earned on two
17 components, whatever the percent achieved would
18 be multiplied by that coefficient value. And, if
19 it's multiple, you'd sum those two together.

20 Q Perfect.

21 A *(Stanley)* And that's how you would determine that
22 rate of return, if you want to call it that.

23 Q Perfect. Yes, I think you're just missing a
24 column on the spreadsheet. If it's linear, and

[UTILITIES WITNESS PANEL]

1 you have a minimum threshold, then you just need
2 to know where the threshold starts. If it starts
3 at 4 percent, it starts at 4 percent. That would
4 be very helpful in the future. But thank you for
5 helping me understand the way that it works.

6 Okay. I just have a couple of
7 additional questions. So, having had some time
8 to process my prior question about discount
9 rates, in the testimony, Exhibit 48, Bates 010,
10 there's a discussion about putting energy
11 efficiency "on par with other utility
12 investments", by which I assume it means capital
13 investments. And, you know, capital investments
14 have a risk and an associated risk-free premium.
15 But, so far as I can see, energy efficiency has
16 no risk. So, I'm trying to understand why
17 there's -- I'm trying to understand, I guess, why
18 energy efficiency investments shouldn't have more
19 like a risk-free rate, in terms of their return?

20 So, if somebody can help me with that
21 one, I would appreciate it.

22 A (Leménager) So, I think part of the calculus is
23 the difference in performance incentive for a
24 successful delivery of energy efficiency programs

[UTILITIES WITNESS PANEL]

1 and more traditional investments. There is a
2 distinction or a difference in the numbers
3 offered for the opportunity there.

4 And I think another distinction for the
5 energy efficiency programs is this idea of the
6 minimum threshold to actually begin earning an
7 incentive. It's a little bit different than
8 looking at a, you know, a used and useful
9 investment, in that all of the measures offered
10 are used and useful, because they do screen as
11 cost-effective. So, being able to deliver, in
12 aggregate, the numbers promised in the Plan is
13 enabling the Utilities to have an opportunity to
14 pursue that kind of benefit to the grid and to
15 customers. Where, without having that
16 performance incentive, being able to be
17 relatively "on par", as noted in the testimony,
18 it makes it a little bit less clear of what
19 exactly should the Utilities focus on, where that
20 performance incentive matrix shows us and directs
21 us as to what types of benefits are we trying to
22 achieve with these dollars, and, again, to what
23 weighting, to be able to best allocate the
24 funding for these programs.

[UTILITIES WITNESS PANEL]

1 Q Okay. Thank you.

2 A (Downes) Can I?

3 Q Yes.

4 A (Downes) I might just note also that the
5 performance incentive is the best practice across
6 the country for energy efficiency programs. And
7 even in jurisdictions like Vermont, which is
8 operated, because of the number of small
9 utilities across the state, they have a nonprofit
10 administrator, and, even in that case, even
11 though they're not-for-profit, there is an
12 incentive, a performance incentive involved in
13 them achieving their goals, in order to motivate
14 the nonprofit company to perform according to
15 what has been set out.

16 Q Okay. Thank you. And then, the final question I
17 have is just a clarification. Do the utilities
18 gets PI, pardon me, on pilots, low income, and
19 municipal? Let's assume for a moment that the
20 GST is under 1.0. Is there still a performance
21 incentive paid or no?

22 A (Leménager) Speaking just to pilots, there is no
23 performance incentive associated with pilots.

24 Q Regardless. Okay.

[UTILITIES WITNESS PANEL]

1 A (Leménager) And I don't know if you want to
2 address municipal?

3 Q Municipal and LI, do you have any comments on
4 whether PI gets paid?

5 A (Butler) Sure. Yes. The performance incentive
6 is just developed based on the portfolio. And,
7 if the portfolio is above 1.0, then it would be
8 achieved.

9 Q Okay. So, the threshold is on the portfolio, not
10 for the program?

11 A (Butler) Correct. Yes.

12 Q Okay. That's an important clarification.

13 A (Leménager) And one -- sorry, one clarification
14 for the pilots. The expenditures are included in
15 the total budget expenditures. But the actual
16 savings delivered, there is no performance
17 incentive tied to those.

18 CHAIRMAN GOLDNER: Okay. Okay, very
19 helpful. Thank you.

20 Okay. We have a couple of questions on
21 a new topic, the impact on the New Hampshire
22 economy. Commissioner Chattopadhyay.

23 CMSR. CHATTOPADHYAY: Thank you.

24 BY CMSR. CHATTOPADHYAY:

[UTILITIES WITNESS PANEL]

1 Q So, very generally, give us a sense what analysis
2 have the parties undertaken which examines the
3 economical factor of the energy efficiency
4 industry specifically in New Hampshire?

5 And this question, again, goes to
6 whoever feels comfortable responding.

7 A (Peters) Sure. I think we're all flipping to
8 that portion of the Plan. Yes. Thank you.

9 So, some areas of analysis are things
10 that we do as we're creating the plan. You'll
11 note, on Bates 006 and 007, we try to outline
12 some of these higher-level economic impacts.

13 The first is the "Customer Energy Cost
14 Savings". So, we want to understand, for the
15 customer, so not about our benefit-cost model,
16 but for the customer themselves, how much money
17 would they have had to spend on purchasing the
18 energy that they have now saved because they
19 implemented the energy efficiency measures? So,
20 it looks at it a little bit more on a retail
21 rate. So, if a customer, you know, replaced
22 their refrigerator, and between now and the
23 lifetime end of that refrigerator, they are going
24 to spend X number of dollars less per month

[UTILITIES WITNESS PANEL]

1 purchasing at retail their electricity because of
2 that energy efficiency investment.

3 And, so, we do that calculation. And
4 the Customer Energy Cost Savings for the Plan
5 that's in front of you now is more than 441
6 million over the lifetime of the measures. And,
7 so, if this Plan were not to be put into effect,
8 if customers did not adopt the measures and
9 savings that are going to happen because of this
10 Plan, they would end up spending at retail, over
11 the lifetime of those measures, \$441 million more
12 on their energy bills.

13 And that's an important piece, I think,
14 because those are the dollars, and these are
15 participants, I should clarify, these are related
16 to the direct install measures, but those dollars
17 that they are not spending on energy bills are
18 dollars that they then have available to spend on
19 other things, hopefully, within our local
20 economy, although we can't determine exactly what
21 they're spending them on, maybe a different study
22 would do that. But it makes those dollars
23 available for customers to spend on other needs
24 and priorities that they may have.

[UTILITIES WITNESS PANEL]

1 The Energy Savings I think is fairly
2 clear in the Plan, and we've talked a lot about
3 that. And the Peak Demand Reduction Savings are
4 kind of quantified in the Plan.

5 The energy efficiency contractors is
6 another area of importance. We have not done, to
7 my knowledge, our own study of the particular
8 economic impact of the contractors in order to
9 quantify it. But we work with -- we undertook an
10 effort a couple of years ago to count the number
11 of vendors and installers that we work with, and
12 the number was almost 1,200 across the state.
13 These are local businesses that employ local
14 workers. Energy efficiency is a very
15 location-specific thing. And, so, it's hard to
16 outsource. You need people in the state who can
17 perform this work.

18 And whenever we have concerns about
19 program dollars or customer interest, we hear
20 from our contractors. They are running
21 businesses, in many cases small businesses, and
22 they want to be assured that the work they are
23 doing is going to continue into the future,
24 because they need to invest in their employees,

[UTILITIES WITNESS PANEL]

1 they need to train them. They want to provide
2 benefits.

3 Many of our small weatherization
4 contractors provide 401k plans and healthcare
5 benefits for the workers who are in homes, kind
6 of doing attic insulation and crawling around in
7 basements, and doing things that are very
8 difficult every day. And I think that's a really
9 important piece of the program, that, unless
10 you're actually getting a project done, you may
11 not see. If it's happening in your house, you
12 end up seeing kind of the level of work that is
13 required to make these improvements. And it's
14 pretty impressive the work that they do, and
15 people that they employ.

16 The other point -- the next point there
17 also goes to that Highly Trained Workforce.
18 There are some studies that attempt to
19 articulate, you know, for spend inefficiency,
20 what are the full-time equivalents that end up in
21 the marketplace. And, so, we've referenced one
22 of those studies in the Plan. The dollars that
23 this Plan spends, based on that study
24 calculation, is going to support 1,698 full-time

[UTILITIES WITNESS PANEL]

1 equivalents, or 3.5 million work hours. And,
2 again, that's kind of a calculation from a study,
3 but it gives a sense of the scale at least.

4 And then, I think, you know, there's
5 some discussion there of the Environmental
6 Benefits, which can have an indirect benefit, I
7 think, on the economy, as we look at our tourism
8 sector, the desire for businesses and residents
9 to locate here in New Hampshire, I think. You
10 know, our environment is something that draws a
11 lot of business and activity in the state, and
12 protecting that environment is something that we
13 also find important as we deliver these plans.

14 So, those are a few examples.

15 Q You mentioned the "\$441 million", that's for the
16 lifetime benefit, right?

17 A (Peters) Yes. It's less --

18 Q And, --

19 A (Peters) Yes.

20 Q And, so, just -- okay. Confirm that for us. It
21 is, right? It's for the lifetime --

22 A (Peters) It's over the lifetime of the measures.
23 So, the energy saved over the lifetime of that
24 measure.

[UTILITIES WITNESS PANEL]

1 Q And what is that? Like, what period are you
2 using for the lifetime, generally speaking? It
3 depends on different programs, I'm going to
4 assume, but --

5 A (Butler) Yes. To undertake that calculation, we,
6 as Kate mentioned, take the lifetime of both
7 electric savings, as well as fossil fuel savings,
8 and we multiply that based on kind of a
9 10-year -- 10-year historic average of the price
10 for that, for that particular energy.

11 Q Okay.

12 A (Butler) Yes.

13 Q And you do use the discounting there as well? Or
14 what do you do? Like, I'm trying to --

15 A (Butler) No, we --

16 Q Just an average number, multiplied by the savings
17 that you have?

18 A (Butler) Correct.

19 Q Okay.

20 A (Peters) This is more of an illustrative
21 calculation than a calculation --

22 Q Yes. And I'm -- you know where I'm going. It
23 looks like it's not necessarily a good
24 presentation of what I would consider --

[UTILITIES WITNESS PANEL]

1 A (Leménager) Yes. So, there's no discount rate
2 applied, but it is a 10-year historical average
3 price for each type of energy. So, there's no
4 inflation adjustment.

5 Q Okay.

6 A (Leménager) But it's going back in time. So, the
7 historical prices tend to be lower than current
8 prices.

9 CMSR. CHATTOPADHYAY: Yes.

10 CHAIRMAN GOLDNER: Thank you. Just one
11 other additional question on the same topic. And
12 I'd like each of the utilities to answer sort of
13 one-by-one. So, start wherever is best.

14 BY CHAIRMAN GOLDNER:

15 Q But what internal tracking, if any, do the
16 Utilities undertake to record the amount of
17 energy efficiency funding that is paid to
18 out-of-state entities?

19 And I'm thinking about two different
20 things. There's a big portion of New Hampshire
21 is on the border of our southern neighbor, which
22 is -- so, it would be pretty easy for there to be
23 services coming from Massachusetts. And then, of
24 course, you know, for example, EM&V consulting,

[UTILITIES WITNESS PANEL]

1 if you look down the list there, there's usually
2 a lot of Boston-based entities, etcetera.

3 So, I'm just trying to get a handle on
4 how much money is leaving New Hampshire, versus
5 how much money is staying here. Is there any
6 internal tracking? And maybe just if each
7 utility by utility could go through.

8 And, if you don't, that's fine. It's
9 just a question for understanding.

10 A (Peters) In terms of the vendors who may be
11 participating in installing the measures or doing
12 the EM&V work or that sort of thing?

13 Q Yes. How much money is leaving the state versus
14 how much money is staying in the state?

15 A (Peters) Well, so, the customers are all New
16 Hampshire customers. So, any incentive that we
17 pay for a project is ultimately intended to
18 benefit the customer that's installing those
19 projects.

20 Q Sure. Sure.

21 A (Peters) I don't know of a particular list that
22 we have put together that lists out our vendors
23 and what state they are located in. It's
24 something that we could undertake, if it's of

[UTILITIES WITNESS PANEL]

1 interest, I think.

2 I know -- I would say a vast majority
3 of our vendors are New Hampshire entities. But,
4 as you said, there are companies that do
5 weatherization installs across the border. They
6 would have to be registered to work here. Some
7 of our EM&V vendors are larger companies that are
8 located, you know, or have offices in multiple
9 places.

10 So, I don't think we have undertaken an
11 effort to put that list together. But it's
12 something we could do.

13 Q Yes. I'm seeing interest on this from the
14 Legislature as well, how much money, in any
15 program, not just energy efficiency, stays in the
16 state and leaves the state. So, that may be
17 something to consider in the future.

18 A (Peters) Yes.

19 Q Yes. Thank you, for Eversource.

20 A (Downes) Oh, yes. Speaking for Unitil, we
21 haven't done that analysis. But I will say that,
22 particularly for our income-eligible and Home
23 Performance Programs, which are
24 weatherization-based, those are -- I can get you

[UTILITIES WITNESS PANEL]

1 the details, but those are predominantly New
2 Hampshire-based companies. Similarly, for
3 engineering support, I would say, for, you know,
4 looking at projects and figuring out costs and
5 benefits and all of that, that those are --
6 that's largely going to be New Hampshire-based.
7 But we haven't done an analysis of that.

8 But, to Kate's point also, the benefits
9 of that work that's being done is accruing to the
10 customers in this state.

11 Q Oh, I understand. I'm just trying to figure out
12 how much money is leaving. Yes, I know how much
13 is staying. So, --

14 A (Stanley) So, for Liberty, I could say with
15 confidence that, from an implementation
16 standpoint, in terms of vendors who are
17 supporting customers with things like energy
18 audits, technical analysis, engineering studies,
19 that 90 percent of those workers are largely
20 based in New Hampshire. There could be folks who
21 come from out of state, who travel across the
22 border to do that work. But it's certainly, at
23 least in terms of Liberty's territory and the
24 customers we serve and whatnot, that tends to be

[UTILITIES WITNESS PANEL]

1 more of the exception.

2 Now, when you're talking about services
3 when it comes to market research, evaluation,
4 software that we use, there's less of a pool of
5 available resources to be leveraged in New
6 Hampshire, although there are options, and we do
7 leverage them. There are lots of qualified and
8 successful vendors that we all leverage. But
9 that's where more of the out-of-state work, at
10 least for Liberty, that I could reference is
11 coming from. It's more kind of speciality
12 skills, where it might be harder to draw from
13 local pools.

14 Q Thank you.

15 A (Woods) So, I would say, for the Co-op, that our
16 answer would be very similar to Liberty's. That
17 a majority of the services are provided by
18 companies that are here in New Hampshire. We do
19 have a -- we don't have a tracking system of
20 out-of-state costs. I think we have a rebate
21 processor for products that their processing fees
22 would be going to an out-of-state company. But
23 that would be pretty much the incentive for the
24 Co-op.

[UTILITIES WITNESS PANEL]

1 CHAIRMAN GOLDNER: Okay. Thank you.

2 Okay. We'll move on to another topic,
3 we'll call this the "No Direct Cost", pardon me
4 topic, for services and equipment.

5 BY CHAIRMAN GOLDNER:

6 Q So, under the Proposed Plan, my question is, what
7 services and equipment would be provided to
8 consumers, whether they be residential, C&I,
9 governmental, at no direct cost? And then, maybe
10 share the rationale behind this approach.

11 A (Peters) Thank you. I think the primary program
12 where customers receive work at 100 percent
13 incentive, essentially, Is the low income
14 program. There is no customer cost for those
15 items.

16 There may be -- there are a few other
17 items kind of within the Home Performance Program
18 or other programs where a specific item may be no
19 cost to the customer, but the overall project
20 does have a cost to the customer.

21 Q In the testimony, there was some municipal -- I
22 know some municipal 100 percent, there may be
23 others, but I noticed that. So, I'm just trying
24 to understand the philosophy behind the 100

[UTILITIES WITNESS PANEL]

1 percent rebate and why you do it?

2 A (Peters) Yes. And I think, even in municipal, I
3 would have to double-check, most of those
4 projects have some level of customer costs, but
5 there may be a piece of it, whether it's the air
6 sealing or a particular measure within that that
7 is no cost.

8 As I was saying, I know, in Home
9 Performance, some of the air sealing is no cost,
10 but you almost never do that without doing the
11 insulation. And, so, there is a customer cost
12 for the project itself. It's just a matter of
13 kind of how we put that package together for
14 them.

15 Q Oh, I'm still struggling with the "why" part.
16 Why not some other percentage, 100 versus 90
17 versus 80? If there's no "skin in the game",
18 kind of thing, you know, what's the logic behind
19 not putting skin in the game?

20 A (Peters) Yes. You know, some of that goes back
21 to the question earlier about ensuring that the
22 programs are cost-effective. And, so, we can
23 look at, for that particular item, what is the
24 cost of doing air sealing and how much energy

[UTILITIES WITNESS PANEL]

1 savings are we getting? And, for the program as
2 a whole, is it serving us best to ensure that the
3 customers who need air sealing are very likely to
4 get it, and those energy savings? And, so,
5 there's some level of calculation there as you're
6 trying to make sure that the project as a whole,
7 again, it's very rare to do just that one piece
8 alone, but the project as a whole is going to be
9 cost-effective and achieve enough energy savings.

10 Not sure if anyone else has a better
11 example here.

12 A (Stanley) Yes. So, for -- there are a few
13 examples of incentives where we'll pay 100
14 percent of the cost to the customer, where
15 there's no out-of-pocket fee. And we do that in
16 those instances where those measures are highly
17 cost-effective. Actually, the cost of providing
18 that service or widget or measure to the
19 customer, the cost of that is far lower than the
20 projected energy savings. Yet, we still see
21 challenges, even though those measures are highly
22 cost-effective, there are barriers or frictions
23 with customers still being willing or confident
24 in viewing that those measures are worthwhile to

[UTILITIES WITNESS PANEL]

1 pursue.

2 For example, with our Small Business
3 gas customers, we have deployed services where we
4 will install, at no cost to customers, pre-rinse
5 spray --

6 *[Court reporter interruption.]*

7 WITNESS STANLEY: I'm sorry. I'll slow
8 down.

9 MR. PATNAUDE: Would you just repeat
10 that.

11 WITNESS STANLEY: Oh, I'm sorry.

12 **CONTINUED BY THE WITNESS:**

13 A (Stanley) -- pre-rinse spray valves. We'll offer
14 that service to customers where we'll provide
15 installation of those measures at no cost to a
16 facility, because the natural gas savings are so
17 high, it far outweighs the cost for us to provide
18 that service at no cost to the customer. Yet, a
19 measure, even though it's highly cost-effective,
20 there can be less receptivity or confidence of
21 customers to be willing to install those
22 measures. So, that's an example that we do.

23 Also, we offer what we call "visual
24 audits" to residential homeowners at no cost to

[UTILITIES WITNESS PANEL]

1 customers, and the reason we do that is the same
2 reason. The measures that we can install upon a
3 simple site visit and exploration of that home,
4 we can install those measures at a relatively low
5 cost, and those measures generate enough savings
6 that outweigh that cost for us to send a
7 technician to the home. That service also,
8 though, tends to lead to the customer being open
9 and presented other opportunities that we can
10 offer them to further participate in our programs
11 that maybe they wouldn't participate in
12 otherwise. So, we can, in visiting that home and
13 offering those no to low-cost measures, we can
14 up-sell them on other energy savings
15 opportunities and offerings for them to
16 participate in.

17 CHAIRMAN GOLDNER: Thank you. Anyone
18 wanted to add to that?

19 SPECIAL CMSR. ROSS: Yes. Just a
20 question.

21 BY SPECIAL CMSR. ROSS:

22 Q When you have free items, how do analyze future
23 returns? And do you apply the net present value
24 of the amount of that rebate or how is that

[UTILITIES WITNESS PANEL]

1 handled in your modeling?

2 A (Stanley) It's handled in the same manner for all
3 measures, in those where there's a customer copay
4 or there isn't a customer copay. So, the
5 projected energy savings of that particular
6 measure, in comparison to the cost of that
7 measure. It's all taken into account.

8 Q So, it's a utility cost then that you put into
9 the model?

10 A (Stanley) Correct.

11 Q So, in this case, the utility cost is 100 percent
12 of the cost. There's no participant cost on that
13 measure?

14 A (Stanley) That's correct.

15 Q Okay.

16 A (Stanley) That's correct.

17 SPECIAL CMSR. ROSS: Thank you.

18 CHAIRMAN GOLDNER: And, Commissioner
19 Ross, do you want to continue with the topic of
20 market barriers?

21 SPECIAL CMSR. ROSS: Yes.

22 BY SPECIAL CMSR. ROSS:

23 Q And I'm going to refer to the statute. Again,
24 RSA 374-F:3, X, states that "Restructuring should

[UTILITIES WITNESS PANEL]

1 be designed to reduce the market barriers to
2 investment in energy efficiency and provide
3 incentives for appropriate demand-side management
4 and not reduce cost-effective customer
5 conservation. Utility sponsored energy
6 efficiency programs should target cost-effective
7 opportunities that may otherwise be lost due to
8 market barriers." So, that's the statutory
9 language.

10 As part of the program design of the
11 proposed EE plan, what analysis was done to
12 identify market barriers and design programs to
13 reduce those barriers?

14 A (Stanley) So, our programs are inherently
15 structured to address market barriers. We do not
16 operate in a perfect market. There are numerous
17 frictions and inefficiencies that exist that our
18 programs are inherently designed to address.

19 I would reference Exhibit 50, on
20 Page 14 of 15 of the Direct Testimony of Ms. Lane
21 and Ms. Goldberg, on behalf of OCA, where they
22 listed out various market barriers --

23 Q I'm sorry. Was that Page 14 and 15?

24 A (Stanley) That's correct.

[UTILITIES WITNESS PANEL]

1 Q And working from memory, I think it was up-front
2 costs and customer information were the two
3 pieces I recall from looking at that testimony?

4 A (Stanley) Yes. And customer information, it goes
5 much deeper than just information in general.
6 There's not only lack of awareness or expertise
7 when it comes to energy savings solutions or
8 opportunities, there's also solution complexity
9 or intimidation customers often face. Typically,
10 we see a lack of trust or confidence in
11 solutions, or even proposals that customers get
12 from customers -- from contractors. Customers
13 can be unwilling to take action, even if a
14 solution is presented to be cost-effective and in
15 their best interest, oftentimes customers can
16 still be hesitant to take action, because they
17 might not trust the analysis or the service
18 provider presenting that analysis to them.

19 So, our role with managing and
20 delivering our programs, we're able to provide
21 confidence to customers. We're able to provide
22 confidence to contractors, in terms of providing
23 solutions that can overcome that confidence
24 barrier the customer can have or trust barrier.

[UTILITIES WITNESS PANEL]

1 The up-front cost barrier noted first,
2 of course, that's a core element of us providing
3 incentives to customers, we're helping reduce
4 that up-front cost for customers that's most
5 certainly a barrier for most taking action in our
6 programs. But it isn't always up-front costs.
7 Again, a lot of time it's, again, awareness,
8 understanding of opportunities for ways to save
9 energy.

10 Customers sometimes don't know how to
11 take a first step in order to make an improvement
12 in their business or home. They might not know
13 who to contact, who to call. And, when they --
14 if they learn about those opportunities, again,
15 they might not have confidence or trust that what
16 they're doing is in their best interest. And
17 that's the role that we play, essentially, as
18 trusted energy advisors for customers to overcome
19 those barriers.

20 Q How have you -- I mean, I understand anecdotally
21 you've had this experience with customers. But
22 how have you -- have you undertaken any studies
23 or has anyone tried to actually develop evidence
24 on what these customer -- what these barriers,

[UTILITIES WITNESS PANEL]

1 market barriers are, whether they exist?

2 I mean, we're 20 years into a program,
3 and a lot -- you know, other than the lighting,
4 there really hasn't been a lot of market
5 transformation. So, I'm just kind of curious to
6 know who's analyzing market barriers?

7 A (Downes) Sure. So, the market barriers are to
8 high-efficiency products and services and
9 behaviors. And, so, lighting is a very obvious
10 measure or, you know, suite of measures that's
11 changed, that we all probably have done
12 ourselves, hopefully, we've done ourselves.

13 But what we call the "baselines" or the
14 minimum efficiency of equipment has achieved
15 market transformation over time. So, the furnace
16 or boiler that you could buy on the market today
17 is quite different than one that you may have
18 bought 20 years ago, or a refrigerator, or, you
19 know, a spray valve.

20 So, that is -- we're constantly
21 evolving the programs as markets themselves
22 evolve. And we do, in fact, research this. Some
23 of it is our implementation staff and our vendors
24 are experts in their field, and they know what's

[UTILITIES WITNESS PANEL]

1 changing in the marketplace. And we get advice,
2 and we amend and change our programs over time,
3 and from year to year, in order to reflect those
4 new minimum efficiencies and practices.

5 And, in fact, the evaluation plan that
6 we included in our larger plan includes looking
7 at what are the opportunities for additional
8 electric savings, given that lighting has largely
9 been met, the high-efficiency lighting. So, we
10 know that the LED folks are going to be coming up
11 with new ways to save energy and control lighting
12 and all of that. So, we'll continue in that
13 market. So, we do do that research. Some of it
14 is informal, and some of it is more formal.

15 I will also say that, in the Plan
16 itself, we've included a table that lists what we
17 know to be the market barriers, and how our
18 different programs are aimed at overcoming those
19 barriers, along the lines of what Eric said.
20 Cost is the most obvious thing, and the most
21 expensive one. But, just by virtue of having
22 "NHSaves" as a brand that is well recognized, we
23 can increase the recognition of it, but that
24 people know that it's associated with their

[UTILITIES WITNESS PANEL]

1 regulated utility. And that, if they operate and
2 work through NHSaves, they can have some faith
3 that what they -- what services they receive or
4 what products that have been rebated, they can
5 have some trust that it will work.

6 And that if, for whatever reason,
7 doesn't work, they have someone that they can
8 call who they can relief from. And, in fact, we
9 do get calls, and we do provide relief when
10 things go awry.

11 A (Stanley) Can I add? We, at Liberty
12 particularly, and I know it's the same with all
13 the Utilities, but we regularly see customers
14 considering solutions that they're thinking are
15 best for them, in terms of energy savings and
16 have the highest return on investment. And, in
17 fact, when we're able to work with the customer
18 and evaluate those same project proposals they're
19 reviewing, we are able to present them with
20 information that shows that what they were
21 thinking is the best option actually isn't the
22 best option.

23 Just over the past month, there is the
24 Food Co-op in the Lebanon area, and they were

[UTILITIES WITNESS PANEL]

1 very concerned about their energy usage over this
2 past winter, looking to ways that they could
3 reduce their electric bill. They received a
4 contractor proposal from a very reputable entity
5 to replace all of their refrigeration units.
6 They were ready to proceed forward with the
7 project. They reached out to us to see if there
8 were incentives available, you know, for the
9 project they were considering. We recommended
10 that we pursue -- evaluate their site a little
11 bit more in detail to consider what they were --
12 what was in front of them for a proposal. And we
13 determined through our analysis that, if they had
14 moved forward with the project that was going to
15 cost them tens of thousands of dollars to replace
16 all their refrigeration units, it would have
17 saved them little to no energy on their electric
18 bill, because their main culprit for energy
19 losses or lack of -- or, you know, poor energy
20 use had nothing to with the refrigeration units,
21 it had to do with their electric hot water usage.
22 But they weren't even considering that, and the
23 contractor they were working with wasn't even
24 proposing a solution in that regard.

[UTILITIES WITNESS PANEL]

1 So, that's one of many examples I could
2 share of where we helped provide the customer
3 direction, in terms of where best they could be
4 making investments, and preventing that customer
5 from, at the end of the day, making a poor choice
6 for an investment.

7 SPECIAL CMSR. ROSS: Thank you.

8 BY CMSR. CHATTOPADHYAY:

9 Q The example that you were talking about at the
10 end, for that customer, did it choose to do what
11 the utility said that customer should have been
12 doing, and did you provide that customer
13 incentives?

14 A (Stanley) Yes. We're still -- this is an active
15 project. We're working with them now. And, yes,
16 they're no longer considering their refrigeration
17 replacement, and we're working with them on
18 addressing their electric hot water.

19 Q Do know whether, without the incentive, your
20 project would be better than the project that
21 they were thinking about previously?

22 A (Stanley) Absolutely.

23 Q So, the question really is, that kind of analysis
24 is very helpful, something, you know, and we just

[UTILITIES WITNESS PANEL]

1 talk about market barriers, market barriers,
2 everything is market barriers. It's kind of
3 crazy. You've got to demonstrate what's out
4 there. So, that's the kind of focus that I would
5 like to see in any analysis.

6 So, anyway, I'm going to go to the next
7 question. So, anybody knows what "market
8 failures" is?

9 Really, I'm just asking. And I can
10 give you the definition. It's "a situation in
11 which there is an inefficient allocation of goods
12 and services in the free market."

13 So, I'm trying to understand, when you
14 talk about "market barriers", have you thought
15 through which ones you're talking about are
16 market failures and which ones aren't market
17 failures. And, you know, I'm just trying to
18 unravel the issue of "market barriers" for me.

19 A (Downes) So, yes. In terms of -- let's take
20 equipment that might be used by a C&I customer
21 that uses energy. And a market failure, I
22 believe, might be that the customer, but for lack
23 of information and availability of a high
24 efficiency piece of equipment, would be willing

[UTILITIES WITNESS PANEL]

1 to adopt that high efficiency piece of equipment.
2 But their contractor doesn't know about it, or
3 the contractor knows about it, but they can't get
4 it from the distributor.

5 So, what we do, as an intervention in
6 that case, may be to make sure that the
7 distributor is stocking high efficiency equipment
8 that they might not otherwise do without our
9 intervention. That the contractor is aware of
10 and comfortable with that high efficiency
11 equipment and knows how to install it. Perhaps
12 there's a slightly different, you know, exhaust
13 thing, you know, exhausting that needs to happen
14 with that piece of equipment. So, we provide
15 training to those contractors.

16 And then, perhaps the customer isn't
17 sure that that's the right option for them. So,
18 we help to reassure them, through an audit or
19 through customer interactions, that that is a
20 better solution for them than a low efficiency
21 piece of equipment.

22 So, those are just, you know, in one
23 example, several ways in which we might intervene
24 in order to correct the market failure.

[UTILITIES WITNESS PANEL]

1 CMSR. CHATTOPADHYAY: I agree that
2 information can be an issue. So, I do understand
3 the point you're making.

4 CHAIRMAN GOLDNER: Okay. Just a couple
5 more questions on market barriers.

6 BY CHAIRMAN GOLDNER:

7 Q So, outside of the issue just discussed, is price
8 a market barrier for customers, other than low
9 income residential ratepayers? That one is
10 clear. But can you share any other -- any of
11 your thoughts on market barriers for, you know,
12 relative to price?

13 A (Leménager) In short, yes. In a little bit more
14 detail, the financing offerings that we have as
15 part of our programs help enable customers to be
16 able to make the -- to handle the up-front
17 investment to be able to realize the long-term
18 net benefit of making that investment. So, by
19 having the financing offerings available,
20 customers who, even if the funding is available,
21 it just may seem too steep to make the full
22 purchase price up front, can take advantage of
23 these funding and financing opportunities we
24 have, to be able to make the best allocation, in

[UTILITIES WITNESS PANEL]

1 terms of, overall, their bill will be far better
2 off over the long-term than it otherwise would
3 have been. So, it helps restore that market
4 efficiency, if we're going back to that
5 terminology.

6 Q Okay. Perfect. So, low income -- low income
7 residential ratepayers clearly have a barrier.
8 Financing helps with others, people who aren't
9 low income. Obviously, there's no need for a
10 financing if there's no payment.

11 Anything else that you would wish to
12 add to the list?

13 A (Peters) Yes. I have -- I have another example,
14 actually. If you think about our Large
15 Commercial customers, for example, companies
16 that, you know, have access to capital, and make
17 capital improvements on a regular basis, you may
18 initially think "Well, cost is not a barrier.
19 These are well run companies that have access to
20 capital."

21 But, in fact, as we work with them,
22 many of them have processes where they do their
23 capital planning in which internal projects
24 essentially compete with each other for what gets

[UTILITIES WITNESS PANEL]

1 funded in a given year. And our Commercial and
2 Industrial Program staff work very closely with
3 these companies to analyze and plan out energy
4 efficiency projects, so that the company can
5 actually make the internal argument that spending
6 money on an efficiency project, which may have a
7 slightly longer payback than perhaps buying a new
8 piece of equipment that will be working on the
9 floor, you know, in two months from now,
10 actually, it makes more financial sense to do the
11 efficiency project.

12 And our incentive offerings help to
13 overcome of that barrier, and then the technical
14 analysis that we can do, in terms of on helping
15 them understand that the savings will be
16 realized, based on all the calculations, also can
17 help.

18 And, so, that's an example where you
19 may not have a problem with access to capital,
20 but the company and the ownership need to make a
21 decision about what they're going to invest their
22 capital in. And it's our job to help them
23 understand the benefits and kind of overcome
24 initial hurdles to making those investments in

[UTILITIES WITNESS PANEL]

1 energy efficiency work.

2 Q Yes. I just have a follow-up on that one. So,
3 large companies, as you said, access to capital,
4 no problem. So, when they upgrade something,
5 they upgrade a piece of equipment, they're doing
6 it ostensibly for a good reason. Either some
7 sort of efficiency improvement, more than likely,
8 maybe extra capacity, which would be tied to
9 jobs, for example.

10 So, are you concerned that you might be
11 sort of helping the company make the wrong
12 decision by providing a subsidy that might cause
13 them to move in the wrong direction, relative to
14 jobs or efficiency and other aspects?

15 A (Peters) I don't think so. I mean, ultimately,
16 these entities we're talking about are typically
17 very sophisticated entities, when we're talking
18 about these types of projects. And I think what
19 we're doing is helping them to have a full
20 awareness and calculation regarding the energy
21 efficiency option that they may have. And --

22 Q But you're changing the mathematics. I'm sorry
23 for interrupting. Your changing the mathematics
24 on their decision-making. So, you're interfering

[UTILITIES WITNESS PANEL]

1 with sort of the process of them determining,
2 because they might be increasing their capacity,
3 right? They might be doubling their capacity
4 that adds 50 new jobs in New Hampshire, but they
5 say "No, I'd rather do this other project,
6 because I have this subsidy coming." So, I mean,
7 does that concern you?

8 A (Peters) But, ultimately, what they're going to
9 achieve, in terms of benefit from the project, is
10 reduced energy costs, and that's part of the
11 analysis, too. So, it helps them overcome that
12 initial barrier. They will have reduced energy
13 costs, which actually provides more cash flow to
14 put into some of the other things.

15 And, so, I think it's all part of a
16 fairly comprehensive analysis that needs to be
17 done. But I'm confident that saving costs on
18 energy is something that is good to do earlier,
19 rather than later. Otherwise, you're just
20 wasting the money that you're spending on the
21 energy. If you could have undertaken a project
22 with us to reduce it, and you decided not to,
23 you're kind of throwing money away each time you
24 pay your energy bill, if it's higher than it

[UTILITIES WITNESS PANEL]

1 needs to be. And, so, you know, I think that's
2 an important piece of the calculation.

3 Q But it seems like they would take every project,
4 right, because you're subsidizing the project.
5 So, I'll do the math, and I'll say "Oh, this is a
6 good deal" or "a bad deal". So, I'm just not
7 quite sure I buy the trade-off example. And what
8 we started off talking about was the market
9 barrier for price. So, I'm just -- I'm still
10 struggling with the answer.

11 A (Peters) I think Eric may have a clarification
12 there.

13 A (Stanley) Yes. I can share an example where we
14 literally just met with a customer yesterday, as
15 we're able to start meeting more in person,
16 they're one of the largest university systems
17 here in the state. And they have a fixed capital
18 budget each year. They can't exceed that capital
19 budget. It's a pretty strict -- it's a pretty
20 strict ceiling.

21 And they made it clear that, when they
22 are considering projects, and particularly for
23 energy savings projects, they're not going to
24 move forward if there isn't a utility incentive

[UTILITIES WITNESS PANEL]

1 with it, and that helps close the deal to
2 motivate them to take action. And the particular
3 project we're looking at with them, this energy
4 savings from that will allow them to reinvest
5 that money in other aspects of the university
6 that they wouldn't have been able to -- they
7 wouldn't be able to do otherwise.

8 So, as Ms. Peters referenced, it's
9 creating a cash flow for them, where they're
10 spending money on this efficiency project that's
11 generating savings that they can -- that they can
12 use those funds elsewhere.

13 Q I totally understand. I guess the problem I'm
14 having is the "price barrier" piece of it, not
15 that the energy efficiency structure is working
16 as intended, I have no doubt that's true. I'm
17 just trying to understand why price is a barrier.
18 And I understand some companies have capital
19 constraints, and this I'll assume sneak under the
20 "capital constraint". So, that can happen, too.
21 So, I do appreciate that example.

22 A (Downes) May I add that, generally speaking, I
23 think this is true not only for for-profit
24 companies, but I used to work at the State, and

[UTILITIES WITNESS PANEL]

1 managed a bunch of Federal Recovery Act money
2 that came in that was dedicated to State
3 buildings to do energy efficiency projects. And,
4 so, the competition between capital funds and
5 operating costs is a real one.

6 So, generally speaking, those are two
7 different calculus. So, you look at your energy
8 bill, and that's an operating cost. And, so,
9 it's month by month by month you've got a bill.
10 And, so, you're not thinking about, in that same,
11 you know, calculus, if I invest in some capital
12 money to change out the heating system, I would
13 reduce my operating expense by so much every
14 month. Like that's just -- it's a disconnect, if
15 you will.

16 And, so, if you're able to help the
17 capital budget folks make a decision to invest in
18 an energy efficiency project that will reduce the
19 operating costs, all the better. But it takes
20 that -- it requires a push, right? It requires
21 sort of pushing the capital expense of the energy
22 efficiency project into the operating budget.
23 And that's also what financing does.

24 The State of New Hampshire has the same

[UTILITIES WITNESS PANEL]

1 issue, and they have been investing for years and
2 years in energy efficiency projects, using
3 NHSaves projects, not because they couldn't do it
4 on their own, but because they have other things
5 that are taking those funds. Does that --

6 Q I understand. No, that helps. And I think Ms.
7 Peters began by talking about large companies,
8 and often large companies have unique facility
9 budgets. So, the Utilities Department has a
10 budget, and they're operating within that budget.
11 So, a lot of times there's not spillover into
12 other areas, in my experience, but there can be.

13 But that was -- I was just trying to
14 understand a little bit better the perspective
15 from the utility point of view, and I think
16 you've helped with that.

17 Last question on barriers is, you know,
18 how do the Joint Utilities analyze the success of
19 programs in removing market barriers? So, how do
20 you measure the -- how do you measure the
21 success? And how has the experience gained over
22 the last 20 years helped to inform this analysis?

23 A (Downes) One of the things that we do is we look
24 at where it's available, it's not available for

[UTILITIES WITNESS PANEL]

1 all measures, but we look at the sales in the
2 state. So, the EPA, at the federal level, has
3 some measures of what percentage of dishwashers,
4 for example, have -- are high efficiency that are
5 sold in this state. So, dishwashers is an
6 example where we no longer rebate dishwashers,
7 because there is enough of a market saturation
8 for high-efficiency equipment that our rebates
9 are no longer needed.

10 So, we look at that on an annual basis,
11 looking at, you know, at what the -- particularly
12 appliances and smaller items, what's reached
13 market saturation that we don't need to support
14 anymore.

15 And lighting is one of those areas
16 where we're really pretty much getting out of the
17 market, because both the price has come down, and
18 the market saturation and penetration have
19 increased to the point where our intervention is
20 no longer probably, you know, a good use of
21 ratepayer dollars. So, that's relatively easy.

22 In other areas where we do process
23 evaluations, we have not done one in a while, but
24 that's one of the things that we look at, is what

[UTILITIES WITNESS PANEL]

1 is the customer's attitude about high-efficiency
2 equipment in a particular market? You know,
3 where could we leverage additional energy
4 efficiency? You know, what would be the best
5 approach? And, so, that's definitely something
6 that we take on on a regular basis.

7 And I don't know if anyone else has
8 anything to add.

9 Q Well, if I could just follow up on that.

10 A (Downes) Sure.

11 Q I'm interested in your decision-making process.
12 So, you talked about dishwashers, and, you know,
13 kind of the market is there, so there's no need.
14 But how do you -- how do you know? Who makes
15 that decision and what data are they using?

16 A (Downes) Sure. So, in that instance, it's EPA
17 data that we are -- that's publicly available.
18 And we, collectively, we work together very
19 closely, the four electric companies and two gas
20 companies, we make decisions together. And we
21 consult with our advisors, our vendors often have
22 good insight into the marketplace. And, so, we
23 make those decisions, our implementation teams
24 work together to make those decisions, make

[UTILITIES WITNESS PANEL]

1 recommendations, and execute them.

2 Q Is that made -- is the decision made in the
3 executive level or is it at the operational
4 level?

5 A (Downes) No. It's made at an operational level.

6 Q Okay. Any other Utilities care to comment on
7 that one?

8 A (Stanley) I would just offer that we're at -- so,
9 the market is constantly evolving, the
10 opportunities for saving energy are constantly
11 evolving. And we're -- some opportunities that
12 might exist for energy savings, there might not
13 be a sizable opportunity for a particular measure
14 or technology. So, we're taking those factors
15 into account in determining the type of measure
16 mix that we're proposing to go after in our Plan,
17 the areas of focus that we think will present the
18 most return on ratepayer investments for the
19 programs.

20 We had an example several years ago of
21 this polymer bead washing machine from a company
22 that was very promising, but it was a very
23 specialized equipment. And we could not achieve
24 the type of engagement with customers to deploy

[UTILITIES WITNESS PANEL]

1 that specific technology that we anticipated. We
2 moved away from promoting that specific
3 technology because of the limited application.
4 Even though, on its own, there is a sizable
5 savings for that measure, but it's not something
6 that we think there's a sizable market to go
7 after. So, we're not going to prioritize that,
8 we're not going to emphasize that in the market,
9 because we don't think there's that opportunity
10 to be achieved.

11 So, those are -- that's an example
12 of -- are examples of pieces we take into
13 account.

14 CHAIRMAN GOLDNER: Thank you. Okay,
15 we're getting close to noon. Let's have one more
16 question from Commissioner Chattopadhyay relative
17 to supplemental funding.

18 And then, let me ask a question before
19 Commissioner Chattopadhyay's question. And that
20 is, I know people many people have traveled and
21 are far from home. The Commission could start up
22 again at 12:30. But, if folks need more time for
23 lunch, that's certainly fine. Is there a
24 preference on coming back at 12:30, 12:45, or

[UTILITIES WITNESS PANEL]

1 1:00?

2 Mr. Dexter, any thoughts on that? Mr.
3 Kreis?

4 MR. DEXTER: Mr. Dexter is always in
5 favor of a longer lunch, irrespective of where he
6 came from. So, I'd just put that out there.

7 There are a lot of people here, and I
8 don't know what people's lunch plans are. I
9 would recommend a one-hour lunch break at this
10 point, because not only do people want to eat
11 lunch, but I'm sure they want to chat about what
12 happened this morning.

13 So, if the Commission could
14 accommodate that, I think that would be a good
15 road to take.

16 MR. KREIS: I think that's reasonable,
17 too, Mr. Chairman, even though I'm paying my
18 witnesses by the hour.

19 CHAIRMAN GOLDNER: Thank you. So,
20 let's return at 1:00.

21 And, before we go, I'll just mention
22 one more question from Commissioner
23 Chattopadhyay. And then, we just have a few more
24 questions for the Utility witnesses after lunch,

[UTILITIES WITNESS PANEL]

1 and so just to scale what we're talking about,
2 there's not very many questions after lunch for
3 the Utility witnesses.

4 So, Commissioner Chattopadhyay, I'll
5 let you ask the last question before lunch.

6 CMSR. CHATTOPADHYAY: Thank you.

7 BY CMSR. CHATTOPADHYAY:

8 Q So, if you go to Exhibit 47, and Bates Page 016,
9 there are two pages there, I get confused, 016 or
10 the 020. But I think it's Bates Page 020, right?

11 CHAIRMAN GOLDNER: Yes, 020.

12 BY CMSR. CHATTOPADHYAY:

13 Q Yes, 020. And there it says "attracting
14 charitable funding for utility energy efficiency
15 programs that are otherwise funded by a system
16 benefits charge is a high bar."

17 I'm just curious what the Commission
18 can do to lower the bar? Any thoughts?

19 A (Peters) Certainly. This is something we've been
20 looking at over the years. We actually did some
21 specific research, and we had a grant writer come
22 in and do a whole review of available potential
23 charitable funding sources. I believe it's --
24 one of the attachments to the Plan was the report

[UTILITIES WITNESS PANEL]

1 that he wrote.

2 And one of the things that he found as
3 he was talking to charitable organizations, and
4 this isn't really a surprise, but -- so, the
5 efficiency programs are something that is, you
6 know, kind of designated by a state policy, and
7 has a specific funding source that is, you know,
8 set in a regulated manner.

9 And, so, as charitable foundations look
10 at how to best use their dollars, they're looking
11 at that and saying "Why do you need our
12 charitable dollars to do these things that are
13 related to state policy, where the state has
14 dedicated certain funding sources towards it?"

15 And, so, we realize that the best
16 avenue to work with those types of charitable
17 foundations would be to look for gaps, where our
18 funding, as directed, perhaps could not meet a
19 certain customer need, but the customer did need
20 to do that thing. I'm thinking particularly of
21 like health and safety barriers, for customers
22 who want to weatherize, you know, there's knob
23 and tube wiring, or they just have significant
24 kind of structural work that they need to do on a

[UTILITIES WITNESS PANEL]

1 home. And it's not really saving energy to do
2 that work, but, in order for them to proceed with
3 a weatherization project, they need to do it.
4 And, so, could we partner with a nonprofit and
5 make an application to a charitable foundation to
6 get some money to help overcome those barriers,
7 and then our programs could come in and do the
8 weatherization work.

9 And, so, we've been exploring over the
10 past several years a few of those opportunities.
11 We've had one successful grant so far with a CAP
12 agency that I think accessed some Department of
13 Agriculture funds.

14 I think there's going to be
15 opportunity, depending on what happens, and we
16 don't want to count on any of it before it gets
17 finalized or through, you know, there may be
18 federal funds coming that relate to energy or the
19 environment. I think it's going to be important
20 for us to stay connected with the Department of
21 Energy and our partners at the state, and any
22 nonprofits that may be eligible for those funds.

23 And more than -- rather than bringing
24 those funds in to our programs, I think our

[UTILITIES WITNESS PANEL]

1 opportunity is going to be to coordinate and
2 collaborate, so that we are not kind of
3 duplicating efforts, but we're actually using any
4 additional funding that's available to do things
5 beyond what we're able to do with the funds that
6 we have for the programs.

7 So, that's part of how we're thinking
8 about it.

9 Q I like what I'm hearing. Do the other utilities
10 have anything to share?

11 A (Downes) The report that Kate mentioned is very
12 informative, and we have work to do to follow up
13 on that. And it's some of the organizations in
14 the state that we would like to develop, we have
15 relationships with, we'd like to develop close
16 relationships with, include the Community
17 Development Finance Authority, or CDFFA, as well
18 as New Hampshire Housing, which were interviewed
19 as part of that research, and expressed an
20 interest in working with us to, you know, better
21 coordinate services, particularly to low income
22 customers, but -- and in the case of CDFFA, also
23 with business customers.

24 CHAIRMAN GOLDNER: Okay. Thank you.

[UTILITIES WITNESS PANEL]

1 We'll go off the record and return at 1:00 p.m.

2 Thank you.

3 *(Whereupon the lunch recess was taken*
4 *at 12:03 p.m., and which ends the*
5 *Morning Session of the hearing. Please*
6 *note that the Afternoon Session will be*
7 *provided under a separate transcript*
8 *noted as "Afternoon Session ONLY".)*

9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24