

VERBATIM PROCEEDINGS

CONNECTICUT ENERGY ADVISORY BOARD

PUBLIC HEARING

ON

ELECTRIC DISTRIBUTION COMPANIES'  
INTEGRATED RESOURCE PLAN FOR CONNECTICUT

FEBRUARY 11, 2010

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ELECTRIC DISTRIBUTION COMPANIES' INTEGRATED RESOURCE PLAN  
FEBRUARY 11, 2010

1 . . .Verbatim proceedings of the  
2 Connecticut Energy Advisory Board Public Hearing on  
3 Electric Distribution Companies' Integrated Resource Plan  
4 for Connecticut, held February 11, 2010 at 1:00 p.m. at  
5 185 Main Street, New Britain, Connecticut. . .

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9 CHAIRMAN MICHAEL CASSELLA: Good afternoon,  
10 everyone. In the interest of punctuality, we'll get  
11 started. I'd like to welcome you to the Connecticut  
12 Energy Advisory Board Public Hearing on comments for the  
13 2010 Integrated Resource Plan.

14 And just to give you some ground rules for  
15 this afternoon, we'd like to ask everyone to come up to  
16 this table where the microphone is, so we can get your  
17 comments on tape. Please identify yourself, your name and  
18 organization that you represent.

19 Also, if you have written copies, please  
20 give a copy to Gretchen, and limit your comments to five  
21 minutes. So, having said that, we can get started. The  
22 first person we have this afternoon is Steve Goldschmidt,  
23 who is representing himself or the public. Mr.  
24 Goldschmidt?

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1 MR. STEVE GOLDSCHMIDT: Thank you. My name  
2 is Steven F. Goldschmidt. I reside at 20 Spinning Mill  
3 Court in Guilford. I'm an electrical engineer with a  
4 Master's degree in power systems and engineering from  
5 Rensselaer Polytech, and, currently, I'm an independent  
6 consultant with over 40 years' experience in the electric  
7 power industry.

8 In the interest of full disclosure, I've  
9 consulted for U.I. on this and the preceding IRPs. I'm  
10 now a civilian, a member of the public. I support the  
11 recommendations contained in the 2010 IRP submitted by the  
12 EDCs.

13 I want to make several personal  
14 observations. Having worked in the industry --

15 CHAIRMAN CASSELLA: Excuse me for a second.  
16 Could you just speak up, because we're not being  
17 amplified, and I know the people in the back of the room  
18 are having a hard time hearing?

19 MR. GOLDSCHMIDT: Okay. Having worked in  
20 the industry through the decades, where nuclear power  
21 became a dirty word and people had an almost visceral  
22 reaction to it, it is interesting to see that with the  
23 passage of time cooler heads have prevailed, and many  
24 jurisdictions are contemplating building new nuclear

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1 plants.

2                   Recently, President Obama has suggested  
3 that nuclear power needs to receive serious consideration  
4 as part of our energy future and is seeking to increase  
5 financial loan guarantees.

6                   Connecticut, which has two operating  
7 nuclear generators and is home to the nuclear Navy, should  
8 be progressive and willing to consider new nuclear  
9 generation as part of its energy future instead of being  
10 stuck in the 1980s mindset.

11                   The targeted DSM, efficient gas expansion,  
12 including repowering, and nuclear strategies are given the  
13 assumptions utilized in the IRP study the most cost  
14 effective strategies under many of the scenarios and their  
15 assumptions, however, nuclear provides the greatest  
16 environmental benefits and lower cent per kilowatt hour  
17 cost in all but the low gas, low CO2 scenario, as can be  
18 seen in Figure 5.6 on page 516.

19                   Figures 5.7 and 5.8 on pages 517 through  
20 518 of the report show the environmental benefits. DSM  
21 and nuclear strategies, while both leading the way in  
22 environmental benefits, also reduce dependency on natural  
23 gas with nuclear being the more effective, as can be seen  
24 on Figure 5.9 on page 519.

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1                   Nuclear obviously takes many years to  
2 develop and has significant obstacles to overcome in  
3 Connecticut and New England. The question is should new  
4 nuclear be considered as a part of Connecticut's energy  
5 future, and, if so, how can that future be created?

6                   Based on the results of the analysis  
7 detailed in Section 5 of the IRP, U.I. states, in light of  
8 the potential benefits of a nuclear strategy identified in  
9 our analysis, U.I. recommends that the CEAB conduct,  
10 sponsor, or otherwise support a more detailed study of the  
11 potential costs and benefits of nuclear power with the  
12 objective of providing a more complete picture of the  
13 tradeoffs encountered in considering nuclear power as a  
14 long-term resource strategy for Connecticut.

15                   This is not a recommendation to build a  
16 nuclear generator, but, rather, a recommendation to study  
17 the pros and cons of implementing a nuclear strategy for  
18 the future.

19                   I very strongly suggest that the CEAB carry  
20 out that recommendation. We need to provide facts that  
21 can address what are often irrational fears and biases  
22 about nuclear generation and be sure the Connecticut  
23 policymakers are not ignoring the overwhelming benefits of  
24 nuclear energy. It has to be studied now.

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1                   Ambitious environmental goals, such as  
2 those proposed for 2030 and 2050, will be difficult, if  
3 not impossible, to meet without zero emitting sources  
4 replacing carbon-based fuel in transport, industrial and  
5 residential markets.

6                   Methods of procurement of low cost energy  
7 resources, such as nuclear, in order to gain the benefits  
8 for customers, must be part of the evaluation. The CEAB  
9 and state energy policymakers cannot ignore significant  
10 strategy option, which very likely is superior to other  
11 strategies in meeting the long-term environmental and  
12 energy policy goals of Connecticut.

13                   The all achievable, cost-effective DSM  
14 should be a goal, especially when the economy turns  
15 around, while the targeted DSM should be implemented  
16 immediately, since it is for all intensive purposes  
17 customer cost neutral while providing environmental  
18 benefits through overall reduction in electric energy  
19 usage.

20                   Long-term energy policy needs to focus on  
21 diversification of both supply and demand resources.  
22 Potential over dependence on natural gas could be a long-  
23 term issue. Even though it appears that shale gas is  
24 expected to provide abundant supply, emerging

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1 environmental issues could mute its development.

2 We also need to learn from prior experience  
3 when over reliance on a single fuel source cause both  
4 price and supply issues.

5 While there is a need for renewable energy  
6 development, some renewable resources may not be the most  
7 cost effective means with which to meet our environmental  
8 objectives. Blind adherence to renewable portfolio  
9 standard requirements may indeed be a more costly approach  
10 than other alternatives in meeting what should be our core  
11 goal, reduction in environmental impact, reliability and  
12 the lowest possible customer cost.

13 Current renewable resources are expensive  
14 and not, for the most part, indigenous to Connecticut.  
15 Fuel cells, while perhaps an indigenous resource, are  
16 considered to be class one renewables in Connecticut, but  
17 are not considered to be class one elsewhere. Fuel cells  
18 are really another form of natural gas fuel generation.

19 Wind definitely has a place in the  
20 portfolio, but is projected to be the largest renewable  
21 resource contributor, and its operating characteristics,  
22 its location will require huge investments in  
23 transmission, much of which, no doubt, will result in  
24 citing battles and long delays.

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1                   Large quantities of wind may also require  
2 greater regional reserve levels and modified operating  
3 procedures. Especially needed will be natural gas fired  
4 peaking turbines to compliment the intermittent nature of  
5 wind.

6                   Wind capacity counts only 25 to 30 percent  
7 of its name plate capacity and tends to be an off peak  
8 resource evenings and nighttime. Wind and solar power  
9 have their place, but because they are intermittent and  
10 unpredictable, they simply can't replace big base load  
11 plants, such as coal, nuclear and hydroelectric.

12                   In conclusion, Connecticut needs to study  
13 nuclear power and develop related policy with an open  
14 mind, maximize economic DSM, always focus on  
15 diversification of supply, be mindful of economic impacts  
16 of renewable power, and procure resources in a manner  
17 which maximizes the benefits for customers.

18                   Thank you for allowing me to make my  
19 comments.

20                   CHAIRMAN CASSELLA: Thank you, Mr.  
21 Goldschmidt. Any questions from the committee members?  
22 Dr. Gordes?

23                   MR. JOEL GORDES: Have a seat, Steve.  
24 Couple of questions, Steve. Refresh me. What was the

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1 cost of nuclear in the IRP, as given, per KW?

2 MR. GOLDSCHMIDT: I believe, subject to  
3 check, it was 5,000 dollars a kilowatt overnight cost.

4 MR. GORDES: Yeah. Okay. That's ballpark  
5 from what I've heard, but I've actually heard higher, like  
6 something like 7,000. I've even heard a lot higher than  
7 that from some people. Let me ask another question.

8 MR. GOLDSCHMIDT: Well can I respond to  
9 that?

10 MR. GORDES: Sure.

11 MR. GOLDSCHMIDT: Because that asserts that  
12 it's going to be more expensive than what we assume. Could  
13 possibly happen, however, I think Connecticut will not be  
14 the first entity or state to build a new nuclear power  
15 plant, and by the time Connecticut gets around to it, I  
16 believe the cost will be under control.

17 Therefore, assuming it's going to be, you  
18 know, the 7,000, 8,000 a kilowatt out of the box, I think  
19 that's wrong. By the time Connecticut gets around to  
20 building a nuclear plant, there will be several having  
21 been built. They will be more, I believe this time  
22 around, cookie cutter in nature, a lot prefab, the  
23 licensing structure will be a one-stop license.

24 If you don't get an operating license when

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1 you apply to build it, you're not going to build it. It's  
2 not going to be the story we had the first time around.

3 MR. GORDES: Okay. What about size wise?  
4 What size do you envision a plant and this new generation  
5 of plants coming in at?

6 MR. GOLDSCHMIDT: I've seen anything from  
7 600 to 1,000 to 1,100 megawatts. The plant that we  
8 modeled was an 1,100-megawatt plant, or 1,000-megawatt, in  
9 that range, and that was based on the Westinghouse design.

10 MR. GORDES: Okay, so, basically, you're  
11 saying this isn't distributive generation and would only  
12 be part of what one might call a centralized system?

13 MR. GOLDSCHMIDT: Well, in the future,  
14 nuclear could be more decentralized. It depends whether,  
15 you know, package type nuclear plants become acceptable  
16 and smaller units more distributed and then put together  
17 with district heating and CHP type thing. That's a  
18 possibility for the future.

19 MR. GORDES: But, for this one here, the  
20 first of type here for Connecticut and other places, you  
21 would assume somewhere in the 600 --

22 MR. GOLDSCHMIDT: Right, and Millstone has  
23 room for several more plants. As a matter of fact,  
24 there's one unit that was shut down there. The

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1 transmission can probably handle the output of a 1,000-  
2 megawatt unit right there, right now, and it would be a  
3 shame to have that site with the cooling water and  
4 everything else not accept another plant.

5 MR. GORDES: Part of the question I'm  
6 driving at is, as you well know, I'm concerned with  
7 security issues. Environmental issues, too, but I  
8 approach it from a security point, and it seems like the  
9 more centralized and the deeper centralized you make  
10 something, which this would do, the less secure you're  
11 probably going to be.

12 MR. GOLDSCHMIDT: I would presume that the  
13 new designs will be designed first off to be able to  
14 withstand terrorist attacks, any kind of security.

15 MR. GORDES: Let me interrupt. Let me  
16 interrupt you. I'm not talking so much the plan, itself,  
17 and I've seen the pictures of the airplane crashing into  
18 the concrete wall. Oddly enough, I used to fly that very  
19 airplane that they show in the tapes.

20 CHAIRMAN CASSELLA: That might have been  
21 you, Joel.

22 MR. GORDES: I haven't recovered yet  
23 either. That's right. But the point being is, no, I'm  
24 not so much concerned about looking at the, you know,

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1 crashing the airplane into the concrete dome.

2 By the way, on radar, they make great  
3 targets, too, but the point I am driving at is grid design  
4 of a decentralized grid from a centralized grid, and I'm  
5 not going to go into the details. I've done that ad  
6 nauseam before, but it seems this keeps it centralized.

7 And the other thing is I certainly wouldn't  
8 go after, like I said, the dome. I'd go after your spent  
9 fuel pool, which because we don't have, and I'm sure my  
10 environmental friends are going to pursue that argument  
11 much more, because we don't have a national policy on  
12 that, the soft target to me would be the spent fuel pool,  
13 unless I'm missing something. Am I missing something?

14 MR. GOLDSCHMIDT: I'm not an expert in  
15 that, so I couldn't tell you. I believe that precautions  
16 are being taken to safeguard all of those portions of the  
17 plants, and I really can't speak to it any more than that.

18 MR. GORDES: Let me say I support any study  
19 type of thing, too. Let me say that, too. I'm seeing  
20 some comments coming up we shouldn't even study it. I  
21 think, in an open society -- by the way, the first tenet  
22 of sustainability in the Commission report is open and  
23 accessible government, and that is the document that gave  
24 rise to what we call sustainable development, so, again,

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1 having an open process is part of what we should be doing.

2 Final question is has any, because Brother  
3 Fromer is not here yet, has any net energy analysis that  
4 shows a positive or very highly positive net energy gain  
5 for nuclear plants been done recently by an independent  
6 and accredited source able to do such analyses?

7 MR. GOLDSCHMIDT: I can't address that. I  
8 don't know. I could search for you and get back to you,  
9 but I don't know that off the top of my head.

10 MR. GORDES: I mean part of the thing is we  
11 should be looking at unintended consequences. We saw what  
12 happens and may still be continuing to happen, going a  
13 little bit too heavy on corn derived ethanol, helping to  
14 spark riots from Cairo to Mexico, so we don't really want  
15 to make bad decisions.

16 MR. GOLDSCHMIDT: You know, as well as I  
17 do, Joel, that nuclear can actually be self-sustainable if  
18 you're willing to get into the fast breeder reactors, and  
19 you can actually take spent fuel from the light water  
20 reactors and create fuel. The U.S. has chosen not to do  
21 that, because of plutonium proliferation questions, but we  
22 have to deal with the fact that China and other nations  
23 are building nuclear plants at a very rapid rate.

24 We can't hold back the development of

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1 nuclear power. What we're doing to ourselves, though, is  
2 we're neglecting an important resource. Connecticut has  
3 no indigenous fuels to speak of. It depends on the  
4 outside for practically everything, but wind, let's say,  
5 and maybe some hydro, and nuclear is or can be a self-  
6 sustainable fuel, and it doesn't need much transport.

7 And, so, Connecticut really needs to take a  
8 serious look now, because I know it's going to take a long  
9 time if and when another nuclear plant is ever built, but  
10 I think it's important for our energy policy.

11 CHAIRMAN CASSELLA: Is there anything else?

12 Thanks, Mr. Goldschmidt. The next person is Christopher  
13 Halpin.

14 MR. CHRISTOPHER HALPIN: Good afternoon.  
15 I'm Chris Halpin, President of Celtic Energy, Inc., based  
16 right here in Glastonbury, Connecticut. I'm here  
17 representing Northeast Energy Efficiency Council,  
18 Connecticut Chapter.

19 First, I want to thank you for giving the  
20 Northeast Energy Efficiency Council the opportunity to  
21 provide comments at the Connecticut Energy Advisory Board  
22 on their recently submitted Integrated Resource Plan for  
23 Connecticut prepared by United Illuminating, Connecticut  
24 Light & Power and the Brattle Group.

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1                   NEEC is a business association of energy  
2 efficiency industry. We were formed to help member  
3 companies grow and prosper in a challenging environment by  
4 providing a voice for the industry to support and expand  
5 business opportunities for efficiency companies.

6                   Connecticut is the leader in providing cost  
7 effective energy efficiency programs to electric utility  
8 customers. This is true for both residential and  
9 commercial customers.

10                  The Connecticut Energy Efficiency Fund is  
11 nationally recognized for its work in the past and  
12 continues to be year after year. The investments in this  
13 energy efficiency initiatives continue to grow green jobs  
14 in this state and always have been in the 20 years I've  
15 been working in Connecticut.

16                  The investments also deliver a four to one  
17 reinvestment in the local economy. For every dollar  
18 that's invested, we get four dollars back. The benefits  
19 are tremendous for consumers and the environment, and --  
20 using the dollars provides a clear example of how  
21 businesses and organizations can employ environmentally  
22 sound practices without sacrificing the bottom line. Some  
23 people refer to it as the triple bottom line.

24                  In 2007, Connecticut passed legislation

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1 directing -- are directed upon the success of existing  
2 efficiency improvements. This is where the 2010 IRP is  
3 gathering its directive, however, NEEC believes the IRP  
4 does not recommend the best level of investment.

5 We urge the CEAB to target and implement  
6 the All Cost Effective Strategy instead of the target  
7 strategy. The difference would generate hundreds of  
8 millions of dollars in customer savings, and it's a huge  
9 difference really in the long-term, and we're talking  
10 long-term here.

11 I think in this state and in many states  
12 we've seen firsthand the results of a lot of short-term  
13 thinking, gimmicks in the budget, and all these kinds of  
14 things that go on year after year after year.

15 The All Cost Effective Strategy will also  
16 help the state meet its environmental goals, including  
17 emissions reductions. This savings would hopefully stay  
18 in the state, helping generate more jobs, lower bills and  
19 lead to a stronger economy in the long run.

20 Now, as we all continue to deal with the  
21 fallout from the economic meltdown of the past year, we  
22 need to keep in mind the opportunity to rebuild our  
23 economy in the most sustainable fashion possible in both  
24 meanings of the word, the green sustainable way, as well

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1 as the traditional meaning of sustainable, where it's good  
2 for the long-term.

3 The All Cost Effective level of DSM  
4 investment would also provide additional collateral  
5 benefits by simultaneously pushing several publicly stated  
6 agendas of this Board, CEAB, as well as the DPUC, ECMB,  
7 the Governor and the legislature, itself.

8 Investing in the All Cost Effective  
9 Strategy of DSM asset acquisition speaks directly to our  
10 state's stated position on becoming a leader in green  
11 jobs. Every job in energy -- in efficiency is by  
12 definition a green job.

13 There's a lot of categories that are trying  
14 to create or make themselves into green jobs, just like  
15 all of the sudden there's a lot of energy experts out  
16 there. Having been in this business 25 years, it's kind  
17 of funny.

18 It really is truly a green job, and each  
19 person trained by Connecticut technical schools,  
20 universities and colleges can then enter the workforce in  
21 a green job in their home state.

22 It will also help mitigate the flight of  
23 young people we have out of this state. Personally, in my  
24 own business, I've hired two people from out of state and

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1 have brought them to Connecticut, both from Massachusetts,  
2 which is just desserts, I guess.

3 Also, several years ago, the state required  
4 all new buildings funded with taxpayer funds to be LEED  
5 Silver, which is Leadership in Energy and Environmental  
6 Design or higher, so every school that gets state funding,  
7 which is pretty much all the schools in Connecticut,  
8 unless they decide not to take the state funding, all  
9 state buildings and even a lot of non-profits and so on  
10 that are funded by the states.

11 Now increasing incentives for energy  
12 efficiency measures will help pay for the implementation  
13 of LEED certified buildings, as well. It has been shown  
14 in several studies and in my own personal experience that  
15 energy efficiency incentives help finance not only the  
16 incremental increase in efficiency that they're aimed at,  
17 but also allow the reallocation of capital to other green  
18 strategies gathering LEED points, like the use of locally  
19 manufactured equipment, another benefit to the state, the  
20 use of low VOC paints, adhesives, etcetera, the list goes  
21 on and on and on, that all create healthier buildings for  
22 our children and our other constituents to live and work  
23 in, and all of these help increase local employment and  
24 reduce health risks.

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1           There's also another side that's been shown  
2           in many studies that reducing asthma in children is also a  
3           potential benefit by reducing the emissions of some of the  
4           state's dirtiest power plants.

5           We urge the CEAB to endorse the All Cost  
6           Effective level of investment in order to meet the  
7           requirements of PA 07-242 and bring economic,  
8           environmental and job benefits of doing so to the state.  
9           Thank you for the opportunity to speak.

10           CHAIRMAN CASSELLA: You're welcome. Any  
11           questions? Comments?

12           MR. JEFFREY GAUDIOSI: Thank you, Chris,  
13           for your comments. We appreciate them. I'd just like to  
14           take this opportunity to point out how, in the Governor's  
15           current budget plan, she's looking to take about 37  
16           percent, plus an additional three million, out of the  
17           fund.

18           And with Massachusetts making a commitment  
19           to really up their efficiency, decimating this fund now is  
20           really the end of green jobs in Connecticut, so I thank  
21           you for your support and encourage you and your  
22           organization to keep contacting legislators and let them  
23           know what this fund does to keep it in place. Thank you.

24           MR. HALPIN: Thank you.

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1                   CHAIRMAN CASSELLA: I don't want to speak  
2 to what the final recommendations of the report are going  
3 to be, because we just don't know yet, but just in terms  
4 of the process, and I'll certainly let my colleagues  
5 correct me when I finish, we're trying to put a lot of  
6 moving pieces into a puzzle. One of them is DSM.

7                   We're trying to look at how that impacts  
8 our RPS requirements going forward, what it does as far as  
9 our environmental compliance's concern going forward, and  
10 how do you find the sweet spot, as far as that DSM  
11 spending is concerned, where you spend as much as makes  
12 sense cost effectively, you have a minimal impact on  
13 rates, and yet you can derive other externalities, if you  
14 will, as far as the RPS standard and the environmental  
15 compliance are concerned.

16                   That's really what our goal is and our  
17 mission is here right now. It's to optimize those three  
18 moving parts of cost, reliability and environmental  
19 mitigation, and, hopefully, when we're done and our  
20 consultants are done, we will have put all those pieces  
21 together and say here's the approach you need to take.  
22 Here's what you need to be doing with renewables. Here's  
23 what you need to be doing with DSM. Here's how  
24 transmissions are going to affect you.

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1                   If you haven't seen the last presentation  
2                   to the Board from a week ago Friday, I think it was, a  
3                   week ago last Friday, I highly recommend you go to the  
4                   website, because it will give you a sense of where we are  
5                   in the process and where we're heading, and I think we're  
6                   heading in the right direction, but, as I said, I'll let  
7                   my colleagues correct me.

8                   Hearing no comments, I think we'd better  
9                   move on.

10                  MR. HALPIN: One more thing, just from a  
11                  personal note, not NEEC oriented, and I mentioned this  
12                  when I spoke to the Senate Finance Committee last year  
13                  about green jobs, is that, you know, I run my own small  
14                  company, seven people, we do more work in Rhode Island  
15                  than we do in Connecticut, more work in North Carolina  
16                  than we do in Connecticut, and more work in Nevada than we  
17                  do in Connecticut.

18                  I'm looking to hire people, and there's not  
19                  many businesses out there now that can say that, and we  
20                  feel very, very lucky. Without this sort of commitment on  
21                  the part of the state, not only from the CEAB, but, you  
22                  know, helping the Governor -- turn the Governor around,  
23                  doing things like entertaining the idea of a statewide  
24                  enabling legislation for an energy saving performance

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1 contracting, so we can get our state buildings to save 10  
2 or 20 percent without using any capital, self-financing,  
3 things like that, there's all kinds of opportunities like  
4 that out there, but I'm going to continue to grow my  
5 company elsewhere, unless we get the signals from the  
6 state that they're committed to the long-term  
7 sustainability of this market here.

8 Again, I live here. I'd prefer to grow my  
9 company here, but the market is elsewhere right now.

10 CHAIRMAN CASSELLA: Clearly, our neighbors  
11 to the north have decided that they're going to invest a  
12 lot more than --

13 MR. HALPIN: Yes, they are.

14 CHAIRMAN CASSELLA: -- we currently are.

15 MR. HALPIN: And I expect to open a Boston  
16 office later this year.

17 CHAIRMAN CASSELLA: Give me a call.

18 (Laughter)

19 MR. HALPIN: Thank you.

20 CHAIRMAN CASSELLA: Our next speaker is  
21 Jeff Gaudiosi.

22 MR. GAUDIOSI: Good afternoon. I am Jeff  
23 Gaudiosi. I'm speaking now as the Chair of the Energy  
24 Conservation Management Board, which oversees the

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1 Connecticut Energy Efficiency Fund, and before I get into  
2 my comments, I would just, again, offer an apology on  
3 behalf of the fund, that we don't have specific comments  
4 ready yet.

5 We were supposed to have a meeting  
6 yesterday, but with the great blizzard of 2010, we  
7 cancelled it. (Laughter) So we never had the opportunity  
8 for the Board to finalize and vet these comments, so what  
9 I'm giving now are just some initial observations and  
10 comments that I have received from Board members that we  
11 put together.

12 At our next meeting on the 17th of  
13 February, we will finalize these and get a written  
14 document into the CEAB.

15 The points I'd like to address first,  
16 Connecticut customers will continue to face increasing  
17 costs. The 2010 IRP forecasts significant increases in  
18 prices and rates. Legislators and policymakers, who are  
19 concerned about energy costs in Connecticut, need to look  
20 to solutions and resources that have a realistic chance at  
21 reducing or at least stabilizing costs.

22 As the ECMB has reported previously in our  
23 2008 study documented, reducing energy is the most  
24 effective way for consumers to reduce costs. Connecticut

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1 has very little influence over energy prices in a regional  
2 global market.

3 Second, Connecticut policymakers,  
4 stakeholders and customers all appear interested in  
5 achieving significant energy cost savings for consumers  
6 and businesses through increased efficiency, as well as  
7 the assorted environmental and job benefits with it.

8 From the perspective of Connecticut's  
9 customers and businesses, the All Cost Effective DSM  
10 strategy would reduce costs by about 423 million dollars  
11 annually by 2020 in the face of rising electricity costs  
12 forecasted by the IRP, would also provide significant cost  
13 savings for the largest number of customers.

14 The targeted strategy would reduce costs by  
15 about 109 million annually by 2020, about one quarter of  
16 the All Cost Effective and would reach fewer customers.

17 Third, there's a considerable focus at the  
18 ECMB and other forums in Connecticut on identifying how  
19 best to pursue and fund increased levels of efficiency,  
20 how to achieve the benefits and energy cost savings for  
21 consumers and businesses, and how much of it to do, how to  
22 fund it or finance it, and who should pay for it.

23 Fourth, while increasing energy efficiency  
24 programs reduces total costs for customers, two questions

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1 are often raised. How do we mitigate the rate impacts  
2 associated with increasing ratepayer funding for energy  
3 efficiency programs, and how do we reduce rate impacts for  
4 customers who do not participate in the programs?

5 Those two questions specifically are things  
6 that we're going to be addressing when we have our made up  
7 meeting next week, and we'll hopefully get back some  
8 answers to those in our comments.

9 Fifth, the ECMB has been developing  
10 approaches to address these questions since the passage of  
11 Public Act 07-242. The ECMB is focused primarily on  
12 increasing comprehensiveness to provide more cost savings  
13 per customer, help customers become more effective  
14 managers of their own energy use, and leverage ratepayer  
15 funding using financing, thereby resulting in a lower cost  
16 per unit of energy savings.

17 Some of the strategies for that include  
18 fully integrated programs for gas and electric, as well as  
19 fuel oil and other fuels, innovative financing programs,  
20 financing and program strategies that allow projected  
21 efficiency savings to pay for themselves at lower cost to  
22 the fund and to ratepayers while offering attractive  
23 investments for participating residents and businesses.

24 For business customers, more effective use

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1 of energy service contracts, positive cash flow financing  
2 for business and energy service companies to leverage the  
3 funds and address the needs of a broader array of  
4 businesses, convenient and attractive financing for  
5 residential customers, including convenient ways for  
6 customers to secure financing on the front end to pay for  
7 energy efficiency measures, innovative approaches for  
8 securing significant amounts of outside capital for  
9 financing that compliment and leverage the ratepayer and  
10 public funds.

11 For business customers, continuous energy  
12 improvement strategy and energy management, such as the  
13 business sustainability challenge program and other  
14 comprehensive approaches, and updated market  
15 transformation initiatives for high performance systems,  
16 net zero energy buildings and strategic energy management  
17 that would make these approaches standard practice for  
18 Connecticut residents and businesses.

19 The ECMB also has some initial concerns  
20 regarding the targeted DSM strategy, that the targeted  
21 strategy does not appear to be consistent with the program  
22 strategies and approaches the ECMB has developed for CNI  
23 customers.

24 The ECMB has worked to fundamentally

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1 transition away from business as usual approach,  
2 emphasizing commodity-based single retrofits and toward a  
3 higher performance program that emphasizes  
4 comprehensiveness, measure integration and system building  
5 optimization.

6                   The targeted strategy also does not  
7 properly account for gas and electric measure integration  
8 that will provide better value to customers. The high  
9 performance CNI measures and targeted strategy represent  
10 only six of the 93 measures and less than 25 percent of  
11 the savings potential the ECMB has.

12                   The Chiller Initiative, which is based on a  
13 discontinued pilot project, has not been updated to  
14 reflect the Board's strategic emphasis on  
15 comprehensiveness and optimization.

16                   The IRP does not acknowledge the potential  
17 for increased energy efficiency fund leveraging, customer  
18 cost share and broader customer participation through  
19 innovative financing that the Board and its subcommittees  
20 have been developing, and the IRP does not account for the  
21 significant potential for cost effective market  
22 transformation available through behavior based strategic  
23 energy management for businesses and continued energy  
24 improvement for industries.

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1                   In order to fully realize the potential of  
2                   the Board's innovative program and financing strategies,  
3                   the funds' programs need the next two years to fully  
4                   develop and implement.

5                   Thank you for the opportunity to provide  
6                   these observations and initial comments, and, once again,  
7                   after our meeting on the 17th, we'll have a finalized  
8                   report for you.

9                   CHAIRMAN CASSELLA: No comment.

10                  MR. GORDES: Absolutely no comment.

11                  (Laughter)

12                  MR. GAUDIOSI: Thank you.

13                  CHAIRMAN CASSELLA: I think that the main  
14                  observation is there's a disconnect between the IRP that  
15                  the EDC submitted as far as the programs are concerned  
16                  versus going wider and deeper and what that means, but I  
17                  just checked with our consultants, and we are looking at  
18                  how to broaden that situation. Okay. Richard Legere?

19                  MR. RICHARD LEGERE: Good afternoon. My  
20                  name is Richard Legere, and I'm not sure exactly how to  
21                  introduce myself, but I'm a Suffield resident, I'm a part-  
22                  time farmer, and the Executive Director of a local group  
23                  in Suffield, who are trying to get the Greater Springfield  
24                  power lines built responsibly, in a way that is a win-win

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1 for everybody.

2 My comments today, I guess I should say I  
3 just have some bullet points to talk about. I'm going to  
4 speak extemporaneously, but if you want me to put that in  
5 writing and send it to the CEAB, I will.

6 The perspective I wanted to share today is  
7 I spent the last two years at the Docket 370 proceedings,  
8 which, to me, when you're talking about the IRP and all of  
9 the energy planning, is sort of the choke point, or the  
10 point where the wheels come off the wagon, so to speak, in  
11 all the good work that's trying to be done.

12 As a brief update on the GSRP, the draft is  
13 out from the Siting Council, and they're approving the  
14 GSRP, approving it as an all overhead project, and they're  
15 rejecting the Meriden NRG power plant.

16 At the proceedings, if I had to pick one  
17 paragraph out of the testimony of about six months' worth  
18 of testimony, the thing that really highlights I think  
19 what the problem is was a question asked of the ISO New  
20 England experts by our attorney, and he asked them  
21 basically this question.

22 What, in your opinion, is our New England  
23 grid going to look like in the next 30 years? And kind of  
24 pausing for everybody to think about it a little bit, but

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1 the answer was exactly the same as it is today.

2 So with all of the problems and all the  
3 things that we're trying to address that are highlighted  
4 in your report, when the rubber meets the road, when it  
5 comes down to what happens at the Siting Council, what  
6 infrastructure investments are built, how capital is  
7 deployed, it's going to be pretty much the same as it was  
8 in the 1960s and '70s, 30 years into the future.

9 There's not anything happening that  
10 addresses the problems that really should be addressed.  
11 One of the issues I think that happens at the CSC and to  
12 be I guess pretty blunt about it, it seems to me, from a  
13 citizen's perspective, as someone who will be impacted by  
14 their judgment, to be a very dysfunctional and  
15 counterproductive process, in that -- and I'm probably  
16 preaching to the choir a little bit, because I know what  
17 happened with your agency and the Office of Consumer  
18 Council, how they were treated adversarial, rather than  
19 being listened to as a peer agency, trying to basically,  
20 you know, follow Connecticut law and uphold the will of  
21 the legislature, but what happens is, I think, my personal  
22 opinion from observing it, is the administrative  
23 proceeding process and how the proceedings are conducted  
24 allows CL&P's attorneys, who, quite frankly, I have to

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1 give credit where credit is due, are very, very brilliant  
2 at what they do, allows them to narrow the focus of it to  
3 restrict the proceedings, to eliminate and exclude a lot  
4 of information that I think has a material and productive  
5 impact, and they're able, basically, to shape the playing  
6 field exactly how they want to get the outcome that they  
7 want.

8 I will give you a few examples. The GSRP  
9 is part of the NEEWS portfolio projects that they have.  
10 In prior CSC dockets, 217, 272, Meriden, Norwalk,  
11 etcetera, Bethel, legal arguments were made to consolidate  
12 everything, look at it in total, look at everything that  
13 was going to be built holistically. I think, and I think  
14 the CEAB, if I remember correctly, shared the same  
15 position, that NEEWS should be looked at holistically in  
16 total all of the impacts, but it isn't.

17 CL&P is allowed to pretty much dictate how  
18 the little play is going to unfold and what the final act  
19 is going to be, and the problem is, as I wrote in our  
20 legal brief using sort of a very simple Hemmingway-esque  
21 analogy, is that they're selling us a car one wheel at a  
22 time.

23 We're buying the GSRP wheel. We don't know  
24 the final end result of our purchase. We don't even know

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1 if we're going to like driving the car, but if we don't  
2 like it, the only way that we can return it on the no  
3 refund policy is to absorb probably the GSRP's 2.5 billion  
4 in stranded costs.

5 I mean once it's built, it's there. You  
6 can't do anything with it. Following up on the, just to  
7 kind of finish that thought, one of the problems with the  
8 GSRP, in particular, for Connecticut is the majority of  
9 the problem and the majority of the fix and the majority  
10 of the money to fix it is fixing Springfield. The  
11 Connecticut portion is sort of the 80/20 rule.

12 I had lunch towards the end of the  
13 proceedings with NRG's attorneys on the Meriden power  
14 plant project, and they were saying they were feeling  
15 hopeful that maybe the ultimate solution would be for the  
16 GSRP line in Massachusetts to come into place. That  
17 allows the Mass. Electrical Co-op, MLEC, to, basically, if  
18 you build it, they will come sort of thing. They need a  
19 power line. They need to be able to qualify for the  
20 capacity auctions at ISO.

21 Once MLEC comes on line, there's new  
22 generational, or MLEC III to be accurate, there's  
23 generational capacity to fix Springfield's problems, and  
24 one of the options that we wanted to look at was could you

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1 do that, add the 345s in Massachusetts, upgrade/fix the  
2 115s in Connecticut with new -- or Stat Com(phonetic)  
3 technology, and then, also, approve Meriden to provide  
4 generational, additional generational capacity.

5 CHAIRMAN CASSELLA: Okay. Could you wrap  
6 up your comments, please?

7 MR. LEGERE: Sure. In Connecticut, but  
8 that option never really got off the table. The CSC  
9 refused to look at any type of combination option like  
10 that.

11 One of the problems with it is, in order to  
12 socialize the costs, the FERC requires 345 kb lines or  
13 higher to socialize the cost, so it's kind of this big  
14 convoluted maze of regulations that prohibit what, you  
15 know, is probably a better result for Connecticut in long-  
16 term.

17 CHAIRMAN CASSELLA: I think you've expended  
18 your time.

19 MR. LEGERE: Sure. I just wanted to say, I  
20 guess in a closing comment, on page 25, I wrote down the  
21 quote that extreme policy changes are necessary in order  
22 to really do something productive and move things forward,  
23 and I'm not quite sure how it's accomplished, but I think  
24 the end result, or maybe the starting point and the end

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1 result, is to fix, in part, the siting process of how  
2 things are looked at and considered, because -- I got two  
3 more sentences.

4 The Docket 370 was basically the result of  
5 the CEAB, where it was the first time a transmission and  
6 generation project were viewed together. I personally  
7 would like to see what the opinion of one guy is worth.

8 All the things that were talked about today  
9 were, whenever something comes before the Siting Council,  
10 that conservation DSM transmission generation are all  
11 looked at holistically, and that an outside consulting  
12 firm is the person that looks at it.

13 CHAIRMAN CASSELLA: I think the problem,  
14 and we'll have to stop this for now, the problem is a  
15 timing issue, and I think, if you're going to do that  
16 analysis when you're at the Siting Council, you're way too  
17 late. Go ahead, Joel.

18 MR. GORDES: I would agree that it's  
19 partially a timing issue, Mr. Chairman. I'll also say  
20 that I was the antagonist participant in Docket 346 in  
21 front of the Siting Council, and you sound like a  
22 recording of myself. (Laughter)

23 MR. LEGERE: I'll take that as a  
24 compliment, I hope.

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1 MR. GORDES: Dysfunctional, narrow, non-  
2 holistic --

3 MR. TIMOTHY COLE: Who, you?

4 MR. GORDES: No, not me. (Laughter) And it  
5 was a security docket, and it looked at how they look at  
6 different things, particularly things like transmission,  
7 but the point is this seems to be a recurring pattern in  
8 some ways.

9 COURT REPORTER: One moment, please.

10 MR. GORDES: And while there are some very  
11 excellent members, it seems that the process is just not  
12 geared to look at things for people who may be wired a  
13 little bit differently in their thought patterns.

14 And the point is, looking at it  
15 holistically as a complex system is what is missing.  
16 They're saying, oh, here's a transformer here, here's a  
17 generator here, here's a transmission tower, but if I've  
18 used the word holistically once, I must have used it 15  
19 times in the many documents that were submitted, but it's  
20 not within.

21 The only thing I can say is the warning did  
22 go, and I said they should be gathering more expertise in  
23 what the topic was, which they didn't want to gain any  
24 expertise in, and this was voiced by members, because DEP

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1 could very easily take over most of their types of  
2 functions if we have a really bad budget deficit, and I  
3 said that to them, but that didn't seem to register.

4 CHAIRMAN CASSELLA: The last thing I think  
5 we can say on this point is that there is a transmission  
6 workshop on February 19th, which CEAB is sponsoring, and  
7 it's going to be at CERC in Rocky Hill, and it's intended  
8 to take up this exact situation. How do you solve these  
9 transmission planning issues before they become an issue  
10 or a problem? So I would highly recommend you come to  
11 that, as well.

12 MR. LEGERE: If I haven't worn my welcome  
13 out, I'd be more than happy to go.

14 CHAIRMAN CASSELLA: If Joel hasn't worn his  
15 welcome out, you can't.

16 MR. LEGERE: I'd like to say I wish I could  
17 come here with a solution, rather than just indicating the  
18 --

19 CHAIRMAN CASSELLA: Well I think that's  
20 part of the mission for the 19th, because the note I had  
21 is how would you fix the process, so, you know, come with  
22 some ideas on the 19th, okay?

23 MR. LEGERE: And, last, just thank you for  
24 the opportunity to come before you and speak.

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1 CHAIRMAN CASSELLA: You're welcome.

2 MR. COLE: I would just second Michael's  
3 last comment, that if you can sort of think about what the  
4 charge to the CEAB is and think about -- I mean think  
5 about this issue of what solutions you would recommend.  
6 It would be really helpful, because I think we all, just  
7 sort of on a very deep level, agree with you, that we need  
8 a much more holistic approach.

9 And you made the point, all the strategic  
10 thinking we're doing here is going to be worthless if we  
11 can't change the system by which any of it is implemented,  
12 but you've been working hard on it, so if you have some  
13 ideas about solutions, bring them.

14 MR. LEGERE: I will. Thank you.

15 CHAIRMAN CASSELLA: Thanks, Richard. Next  
16 up is Bob Keen, representing Bob Keen, representing the  
17 public.

18 MR. BOB KEEN: Hello. I'm Bob Keen, a  
19 private citizen from Simsbury, Connecticut. I've spent 38  
20 years working in the power industry, including a couple of  
21 years at the University of Wisconsin's Institute for  
22 Environmental Studies, assessing alternate ways and  
23 meeting their state's energy needs, five years at  
24 Northeast Utility in the Wholesale Power Group, which

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1 assess power costs and how we go about meeting our needs.

2 The thrust of my comments is along the  
3 lines of the first speaker highly endorsing that we study  
4 nuclear, but I'd also like to point out the costs of the  
5 other options we're talking about here, too.

6 In general, when we talk about renewables,  
7 we very seldom hear about the costs, and there are  
8 studies, the IRP and the ISO studies, that are ongoing  
9 right now drive home what the costs are of going with  
10 those options.

11 In general, the renewables are costing  
12 somewhere between two to 13 times the cost of conventional  
13 sources, and it gets more costly as you increase the  
14 percentage of energy from the intermittent renewables, due  
15 to the increased transmission and storage requirements.

16 The solar photovoltaic that Connecticut  
17 recently has installed costs about \$1.10 a kilowatt hour,  
18 or 10 to 13 times the present generation costs, or about  
19 eight to 10 times the cost of a new nuclear plant.

20 The ISO New England 2030 wind study, which  
21 tries to install a 23 percent renewable wind energy, costs  
22 about 80 billion dollars, and you could replace that with  
23 about 20 billion dollars' worth of nuclear stations, or  
24 about a three to four cost ratio, also.

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1                   And the ISO wind study is not without it's  
2                   own environmental impacts. It requires 42 hundred circuit  
3                   miles of 500 to 765 kb transmission lines. Now the  
4                   maximum transmission line in New England right now is 345,  
5                   so you have a greater visual impact than you do with the  
6                   current ones, which would take about 100,000 acres.

7                   This line encircles New England. It goes  
8                   around the suburbs of Hartford, through the suburbs of  
9                   Boston, up the coast of Maine, back down the mountainside  
10                  of Maine, into Vermont and New Hampshire, something which  
11                  I think will be very difficult to build in the current  
12                  political environment.

13                  It also calls for 5,000 megawatts of pump  
14                  storage, which basically means taking off five  
15                  mountaintops. And the pump storage area would be bigger  
16                  than Northfield Mountain, because you'd have a larger  
17                  storage requirement of the Northfield Mountain.

18                  Northfield Mountain is typically an eight-  
19                  hour production capability, and for wind you'd need  
20                  something like five days, or 15 times the amount of  
21                  storage, and that's not all the cost impact. Because the  
22                  pump storage can't handle all of it, it calls for two and  
23                  a half million cars to be electric at about a 20,000-  
24                  dollar premium or about 50 billion dollars additional,

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1 and, also, for the conversion to electric heat in Maine,  
2 so the costs keep mounting up. It gets more and more  
3 expensive the more you try to do.

4 One study of the Waxman CO2 bill were done  
5 by the Department of Energy, and they took the approach  
6 that in order to minimize the damage to the economy, the  
7 power sector has to do more than its share of the CO2  
8 reduction.

9 In order to do that, you can't have  
10 renewables. The DOE study does not utilize intermittent  
11 renewables, like wind and solar, as they only reduce CO2  
12 by 30 percent and 12 percent, respectively.

13 The DOE relies on nuclear and coal with  
14 carbon capture and storage and has reduced CO2 by 90 plus  
15 percent, and that's the only way you can get the CO2  
16 levels down to low levels, without doing maximum damage to  
17 the economy.

18 For my recommendations, I would suggest  
19 that we only become part of the ISO New England wind study  
20 if it expands its scope to include nuclear and other  
21 options, as the wind costs four times nuclear and requires  
22 huge transmission build out.

23 I also think we should recognize that  
24 nuclear is by far the lowest cost and most environmentally

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1 friendly solution that does the least damage to the  
2 economy and with the most high paying local jobs.

3 We should allow it to satisfy the renewable  
4 requirements, like in France, and we should also repeal  
5 the state law that outlaws nuclear at the present time.  
6 Thank you.

7 CHAIRMAN CASSELLA: Thank you, Mr. Keen.  
8 Questions? Mr. Gordes?

9 MR. GORDES: One question. What was the  
10 basis for your cost of photovoltaics at one dollar per  
11 kilowatt hour? What were you using for inputs, or what  
12 source did you have?

13 MR. KEEN: The actual cost of 10,000, which  
14 came out to be 10,500 dollars a kilowatt.

15 MR. GORDES: That's a pretty old cost.

16 MR. KEEN: That's the cost of the ones that  
17 were just installed.

18 MR. GORDES: Where?

19 MR. KEEN: In Connecticut.

20 MR. GORDES: You can get them lower than  
21 that.

22 MR. KEEN: You can now, yes, but that was  
23 the cost.

24 MR. GORDES: Well that's what I'm saying.

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1 You can get them lower now. That's exactly the question I  
2 asked. What's the basis for the one dollar, and it wasn't  
3 the cost that we are at right now.

4 Now this is a very anomalous year, because  
5 the price worldwide of photovoltaics has fallen, due to a  
6 glut in Spain, but we have been on a downward path, except  
7 when there was a worldwide shortage starting in 2004 of  
8 polysilicon. That has been sort of relieved, and we are  
9 backward on the downward path right now, but the price  
10 that is at the 10,000 level, when we're probably closer  
11 now -- Dale, are you here? About, what, 65 hundred,  
12 7,000?

13 DALE: That's about right.

14 MR. GORDES: Now before you put something  
15 like that in public for the now, you should be using a now  
16 figure.

17 MR. KEEN: That was from the presentation  
18 that the CC -- made within a few months ago, so I don't  
19 know.

20 MR. GORDES: That's not a great figure  
21 either.

22 MR. KEEN: The point I'm at is that, you  
23 know, you could even give away the photovoltaic part of  
24 the system and say the cost of that goes to zero, and

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1 you'll still be at three to four times the cost of  
2 alternate sources.

3 MR. GORDES: When you say alternate sources  
4 --

5 MR. KEEN: Or maybe existing sources.  
6 Excuse me.

7 MR. GORDES: And which sources are you  
8 specifically talking about, specifically?

9 MR. KEEN: Combined cycle gas turbine.

10 MR. GORDES: Okay.

11 MR. KEEN: Or the existing -- I mean you're  
12 talking --

13 MR. GORDES: With gas at what price, in the  
14 IRP price?

15 MR. KEEN: You could use the IRP price,  
16 where it comes out to -- yeah, that will work. When you  
17 have a three and a half cent variation, when the costs are  
18 so much higher, you're going to invade the little nuances  
19 here and there, but you're in a different ballpark.

20 MR. GORDES: But part of it is you're  
21 talking, you know, again, the generation price, and the  
22 generation price is one thing, but under the bid system  
23 that we use with the ISO, even the lower cost nuclear  
24 plants still are going to be given the marginal cost, so

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1 what does that matter in this sort of scenario?

2 In other words, they can generate let's say  
3 a two cents kilowatt hour, but they're still going to be  
4 making 12 cents a kilowatt hour, and, at the end of the  
5 day, or I should say the end of the month, I'm going to be  
6 paying the 20 cents per kilowatt hour.

7 If we stay under the bid system, rather  
8 than a cost of service, how am I benefiting as an end use  
9 consumer?

10 MR. KEEN: You'd have more capacity. Well  
11 you're in a scenario -- the IRP ran a scenario for  
12 increased nuclear and the costs came down. Even the  
13 lowest cost scenario is in the IRP, and the reason is it  
14 displaces the gas generation, and you have less high  
15 priced gas generation.

16 CHAIRMAN CASSELLA: Tim?

17 MR. COLE: I guess I have sort of a  
18 comment, a couple of comments and a question. The couple  
19 of comments are I mean I come into this conversation,  
20 probably because of my age, skeptical about nuclear, and  
21 yet I have been saying for quite awhile that I'm in the  
22 kind of show me mode, and I'm listening hard, and people  
23 making cases for nuclear are people that I'm listening to  
24 and trying to see whether all my concerns, you know, waste

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1 disposal being a huge one, can be dealt within a  
2 responsible way, so that's one comment.

3           The second comment is that there are parts  
4 of the world, where huge progress is being made in  
5 achieving that meeting energy needs, using energy  
6 incredibly efficiently, holding costs down, without using  
7 nuclear, and I'm wondering if you've given a lot of  
8 thought to that, and then I have another question after.

9           MR. KEEN: Yeah. I don't cover all the  
10 areas, but, in general, I think I'm all in favor of  
11 reducing our demand in demand side management and energy  
12 conservation. In fact, the way I interpret the IRP is  
13 that you basically have enough capacity in the state, so  
14 the lowest cost scenario is basically do nothing, except  
15 demand side management, and it's only because you have to  
16 meet the renewables requirements that you have to spend 30  
17 percent more, and that was the opening comment in the IRP.

18           And when you look at that and the scenarios  
19 they ran, the nuclear was the lower cost option, with less  
20 emissions than renewables, and the reason is the  
21 renewables require a backup of gas turbine or some of the  
22 less efficient plants and more CO2s.

23           MR. COLE: And I understand those  
24 considerations, and Steve's comments, about meeting a

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1 diversified approach, is also something that I'm sort of  
2 keeping in mind.

3 MR. KEEN: I'm in favor of the lowest cost  
4 solution, not necessarily the nuclear solution.

5 MR. COLE: No, I hear you.

6 MR. KEEN: And I think we have to be very  
7 careful about the costs that are coming down the road with  
8 some of the renewable scenarios, because when you're  
9 trying to do it on a large scale, the costs become very  
10 transparent.

11 MR. COLE: Understood. My last question,  
12 observation, I wish I had printed it out. I saw yesterday  
13 that Pew Trust Environmental Group just put out a study,  
14 talking about the trillion-dollar scale of what's  
15 happening with the melting of arctic ice by 2050.

16 We're going to be talking about costs to  
17 society on the trillion-dollar scale from doing what we're  
18 doing, and it leads me to a question that I keep having,  
19 and I don't hear us putting into the conversation, and I  
20 don't see -- I guess I haven't had the time to kind of  
21 really do the legwork and find out what's out there, in  
22 terms of research, but I'm not hearing it in the  
23 conversation, and that is the cost of not doing things.

24 It always makes me nervous when we get into

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1 a conversation about this is going to cost this, and this  
2 is going to cost us less, because, typically, we're  
3 looking at fairly short timeframes in comparing those  
4 costs.

5 The costs that you're comparing, you know,  
6 I'm willing to take it at face value that, you know,  
7 you've done the math, and that if we're talking in the  
8 next 10 years, you know, it probably looks roughly like  
9 you say it does.

10 I'm willing to take that for the sake of  
11 argument, but when we now open the conversation to include  
12 the cost of not doing anything, so that the math is this  
13 versus that, it's whole different conversation. I wonder  
14 if that's a conversation that you've been at all involved  
15 in, or have thought about.

16 When you make an argument on the basis of  
17 cost, are you including the cost of not doing things?

18 MR. KEEN: Yes, I have. I mean the issue  
19 here we talk about nuclear versus renewables, nuclear has  
20 zero CO2 emissions, if that's the concern with the ice  
21 melting, and, so, it has actually less emissions than a  
22 renewable scenario, again, because the renewable requires  
23 a backup, or maybe you could say that the renewables  
24 interrupt the gas turbines, since the gas turbines run

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1 more than the renewables. In any event, you still have  
2 emissions.

3 If you want to get to the scenario of doing  
4 nothing, I guess then you have to say what is the cost on  
5 both sides of the equation, and you also need to make sure  
6 that what you're stopping is really the cause of the  
7 problem.

8 There's a lot of debate. I'm not one to  
9 talk about the ice in the arctic, but there are people  
10 that say the ice in the arctic is due to the pacific  
11 oscillation and the warm water going up and melting the  
12 ice, not necessarily due to the CO2, but that's not my  
13 area.

14 MR. COLE: So that's not an argument --

15 MR. KEEN: Yeah.

16 MR. COLE: -- I'd want to go very far with.

17 CHAIRMAN CASSELLA: But to speak to Tim's  
18 question, you're saying the amount of carbon that nuclear  
19 emits is not going to complicate his equation. I mean  
20 it's not that I exacerbate the trillion-dollar situation.

21 MR. KEEN: I mean there's probably three  
22 choices here. One is do nothing, in which case the  
23 concern about are you going to cause some damage down the  
24 road exists. The lowest cost solution appears to be

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1 nuclear, and you have the wind solution, which is coming  
2 in at three to four times the cost of nuclear.

3 CHAIRMAN CASSELLA: And has a carbon  
4 component.

5 MR. KEEN: And still has a carbon  
6 component.

7 CHAIRMAN CASSELLA: Thanks, Bob.

8 MR. COLE: Thanks.

9 CHAIRMAN CASSELLA: It's not that I'm going  
10 to massacre this name because I can't pronounce it. I just  
11 can't read it. Letty McPhedran?

12 MS. LETICIA MCPHEDRAN: You did very well.

13 CHAIRMAN CASSELLA: Thank you.

14 MS. MCPHEDRAN: I'm Leticia McPhedran from  
15 the North Haven Clean Energy Task Force. I speak for the  
16 North Haven Clean Energy Task Force, as well as myself,  
17 and I speak in support of increased investment in regional  
18 wind and in state solar energy.

19 We support the All Cost Effective  
20 Efficiency Strategy to invest an additional 65 million per  
21 year in energy efficiency. This investment would reduce  
22 dirty megawatts and reduce customer costs by 402 million  
23 annually.

24 These dollar amounts were provided by the

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1 Connecticut Fund for the Environment, and I just accepted  
2 their analysis and research. Reduced customer costs would  
3 help us in North Haven find householders who would sign up  
4 for clean energy on their energy bills.

5 We are working to support a clean energy  
6 future in North Haven. Our Selectman, with the  
7 cooperation of the Energy Efficiency Fund and U.I.,  
8 provided that half of our town street lights were changed  
9 to lower wattage. All light bulbs in our schools were  
10 changed for energy efficiency. Our Task Force has signed  
11 up nearly 300 clean energy customers in three years and  
12 earned solar panels from the state.

13 Many households here have spent the money  
14 for energy audits through the Efficiency Fund. Our Task  
15 Force has hosted two clean energy forums, each of which 50  
16 to 80 people attended, and we've done some work telling  
17 people about the great programs our state has.

18 We ask you to help build a Connecticut  
19 solar industry by supporting solar energy production of at  
20 least one percent of Connecticut's total energy use,  
21 especially since the accident at the Kleen Energy Plant in  
22 Middletown.

23 We need your strong recommendation to  
24 maximize investment in energy efficiency and renewable

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1 energy as the safest and cleanest forms of power, and we  
2 hope that you'll become leaders in this effort. Thank  
3 you.

4 CHAIRMAN CASSELLA: Thank you. Any  
5 questions? I guess I have one, Leticia, if it's okay. I  
6 actually read a lot of the comments, and they come -- they  
7 center around things that we've heard before, and there  
8 weren't a lot of new ones, but, generally, one that keeps  
9 coming through is that people are for clean energy, and  
10 they're for the maximum achievable DSM, but I'm having a  
11 hard time figuring out how you do that and whether people  
12 are sensitive to the cost implications, which was the  
13 conversation that we were just having.

14 The IRP says, basically, if we need the RPS  
15 in 2020, it's going to add four cents to the residential  
16 rate, four cents to rates, and that doesn't count the two  
17 and a half cents that the ISO is going to be adding  
18 between now and 2015, which is going to just keep going  
19 up, so the question is can we afford to do both?

20 And I don't think you can't afford not to  
21 is a good answer. I'm just thinking that's the answer  
22 that comes into my head, but that's the thing that I'm  
23 personally wrestling with. I'm not speaking for the  
24 committee.

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1                   And it goes back to that three-fold  
2 question that we have before us all the time. How do you  
3 mitigate impacts in the environment and cost and maintain  
4 reliability and security? I don't know the answer, but  
5 that's my question. I'm not asking you to answer it.

6                   MS. MCPHEDRAN: I appreciate your comment.

7                   CHAIRMAN CASSELLA: Thank you. I'm sure  
8 somebody out there is going to want to answer that before  
9 the day is over. Okay. Next up is Natalie Hildt.

10                  MS. NATALIE HILDT: Good afternoon. I'm  
11 Natalie Hildt, and I'm here representing Northeast Energy  
12 Efficiency Partnerships. We are also known as NEEP, and  
13 we are a regional non-profit that promotes the efficient  
14 use of energy in homes, buildings and industry in the  
15 northeast.

16                  We advance cutting edge products and  
17 practices through coordinated whole building efficiency  
18 programs and policies, so I'm pleased to offer our  
19 comments. They're a little bit truncated from the written  
20 version that I submitted, but you've got those on the  
21 website.

22                  First of all, Connecticut's utilities  
23 operate under the mandate of Public Act 07-242, which  
24 requires them to procure all Cost Effective Energy

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1 Efficiency before conventional power generation to meet  
2 new demand.

3 It's NEEP's belief that the 2010 IRP and  
4 its recommendation to pursue the targeted expansion  
5 scenario for demand side management, rather than the all  
6 achievable cost effective scenario, falls short of the  
7 spirit of this legislative mandate and would forfeit  
8 opportunities for the state's energy customers to maximize  
9 the potential benefits of energy efficiency.

10 We agree with the IRP's finding that while  
11 Connecticut has been a leader in DSM, there is much more  
12 room for expansion and improvement. This is true in terms  
13 of savings goals, coordination of programs and improving  
14 the evaluation, measurement and verification of program  
15 impacts.

16 That is why it is so important for the  
17 state to stay on course with the continued ramp up in  
18 energy efficiency investments.

19 And, incidentally, I couldn't come here  
20 without mentioning the concern shared by some of you and  
21 many here in this room that Governor Rell is contemplating  
22 another rate on the efficiency programs to bridge the  
23 budget shortfall.

24 I cannot overemphasize how troubling this

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1 prospect is to the future of the state's efficiency  
2 efforts and to its residents and businesses. Such a move  
3 would be extremely damaging and short-sided, and, as we  
4 know, for every dollar invested in efficiency, the  
5 benefits can be three to four times as great.

6 Connecticut is the only state in the region  
7 contemplating such a rate, and, of course, we're all  
8 facing tough economic times, so it's hard to believe that  
9 this is happening while you all here are trying to figure  
10 out how best to deliver on the promise of energy  
11 efficiency.

12 To Chris Halpin's point earlier, I'd like  
13 to mention that it's economically critical that  
14 Connecticut keep energy efficiency stable and in parity  
15 with surrounding states, so that the businesses and energy  
16 efficiency sector, like Chris and others, will be  
17 confident of their work prospects and not go elsewhere,  
18 and homeowners, businesses and industry can plan their  
19 energy upgrades knowing that the ratepayer funds they've  
20 paid into will be there when they need them.

21 Finally, if Connecticut were to divert  
22 energy efficiency funding to the general budget, the  
23 resulting loss in energy savings would change the region's  
24 load share, which in turn could drive up transmission

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1 costs, since you have the most constrained areas in New  
2 England.

3           So whether we're talking about rating funds  
4 or pursuing only a moderately -- an overly conservative  
5 investment strategy, which is what we see as the targeted  
6 plan, by not capturing All Cost Effective Efficiency,  
7 you'd miss the chance to alleviate constraints on the  
8 grid, and you'd sacrifice potential economic gains since  
9 robust efficiency programs create jobs and put money back  
10 in people's pockets to spend on other goods and services.

11           Furthermore, if the state doesn't protect  
12 and ramp up efficiency budgets, carbon dioxide and other  
13 air pollutants that could have been avoided will be  
14 generated, undermining Connecticut's goals to reduce  
15 greenhouse gases and create a cleaner environment.

16           I won't go through all my comments at  
17 length, but I do want to hit on some of the high points.  
18 Regarding the rate versus bill impact, we don't believe  
19 that the IRP delves deeply enough into this issue, and  
20 we're glad to hear, Jeff, that you are going to be looking  
21 at that more closely.

22           True rates would increase nominally in the  
23 short-term under either scenario, but, overall, energy  
24 costs would likely decline with substantial permanent

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1 reductions in overall load curve, and this so-called  
2 Demand Reduction Induced Price Effect, or DRIPE, has the  
3 potential to drive energy costs down for participants and  
4 non-participants alike, and we think that Connecticut  
5 might do well to look at some of the examples of other  
6 states.

7 I've sat in on a lot of meetings up in  
8 Massachusetts, where they have, you know, evaluated the  
9 situation and determined that overall the rate impacts  
10 would be nominal.

11 And now I'd like to touch just briefly on  
12 some of the targeted DSM approach, four areas on the  
13 energy efficiency programs. We generally are in support  
14 of these. They're a construction of zero energy new  
15 homes, residential cooling, commercial industrial  
16 applications and CNI chiller retirement.

17 NEEP consistently supports holistic  
18 approaches to energy savings, including renewable ready  
19 projects, like the zero energy homes would advocate for  
20 holistic and, also, multi-fuel, so we think the zero  
21 energy is a laudable goal.

22 A lot of other states are looking at this,  
23 but, again, new construction is only a small part of all  
24 homes built, and to hit 600 homes over 10 years would only

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1 be a fraction, so that together with this exciting  
2 initiative we would encourage the state to focus on  
3 existing and, also, more typical homes and buildings,  
4 strong energy code training and enforcement, automatic  
5 updates to match national model energy codes, such as the  
6 IECC and ASHRAE standards, ability for communities to  
7 adopt an informative appendix or stretch code, development  
8 of building energy rating and disclosure policies and the  
9 continuation of the tried and true utility incentive  
10 programs are key to ongoing savings.

11 So, again, we support a whole building and  
12 all fuels approach, so, to that end, the Residential  
13 Cooling Program and the CNI Chiller Retirement could stand  
14 to make great gains in reducing summer peak loads.

15 So on to appliance efficiency standard.  
16 This is certainly an area where NEEP has worked closely.  
17 Connecticut has a history of joining neighboring states in  
18 setting higher efficiency standards on appliances where  
19 there is no federal preemption, and we urge the state to  
20 consider it again in 2010, particularly with regard to  
21 televisions.

22 That would bring Connecticut in line with  
23 New York, Massachusetts and Maryland, and considering TV  
24 standards this year, hopefully to be joined soon by Maine

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1 and New Jersey, as well.

2                   While Connecticut has made gains through  
3 efficiency and maintains a leadership position in the  
4 nation, it stands to fall behind the pack by not pursuing  
5 broader and deeper energy saving strategies.

6                   Robust, integrated and customer focused  
7 efficiency programs, together with aggressive policies  
8 that target building energy and appliances, must go hand-  
9 in-hand to maximize the efficiency potential.

10 Furthermore, we encourage the DPUC to allow the gas and  
11 electric utilities to direct resources towards behavioral  
12 solutions to saving energy.

13                   This should include education, operations  
14 and maintenance training, and feedback on how these best  
15 practices can drive down energy costs and use for  
16 residential and business customers.

17                   We urge the state to aspire to the goal of  
18 capturing All Cost Effective Energy Efficiency, all  
19 efficiency that is below the cost of new generation, and  
20 to guard against any myopic attempts to raid these  
21 ratepayer funds for non-efficiency spending.

22                   Maintaining and improving efficiency  
23 programs will deliver benefits to ratepayers, regional  
24 system reliability, the state's economy and the global

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1 environment. Thank you.

2 CHAIRMAN CASSELLA: Thank you. What is  
3 NEEP doing relative to new technology, specifically Smart  
4 Grid?

5 MS. HILDT: Well NEEP typically operates on  
6 the customer side of things, of the meter, so we are sort  
7 of peripherally involved. A lot of our sponsors -- and,  
8 again, NEEP is a non-profit organization. We're funded in  
9 part by utilities, including CL&P and U.I. here in  
10 Connecticut by federal and foundation grants, so most of  
11 what we're looking at is the policies and technologies.

12 We do work on the upstream market  
13 transformation with some of the more cutting-edge  
14 technologies, but this is going to be more along the lines  
15 of building equipment, so we are looking at some of that.

16 Frankly, I think that it's an important  
17 part of managing the overall power grid system  
18 reliability, managing load shifts and blackout and that  
19 sort of thing, but it's a part of it, so I think it's  
20 going to be something that we're all seeing, that and,  
21 also, combined heat and power and other initiatives.

22 NEEP actually changed its mission a few  
23 years ago to not just talk about promoting energy  
24 efficiency, but the efficient use of energy, so that could

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1 include renewable ready smart grid technologies to combine  
2 heat and power and that sort of thing.

3 CHAIRMAN CASSELLA: Thanks.

4 MS. HILDT: Thank you.

5 CHAIRMAN CASSELLA: Thank you. Next up is  
6 Jessie Stratton from Environment Northeast.

7 MS. JESSIE STRATTON: Good afternoon.  
8 Environment Northeast submitted extensive comments on  
9 January 25th, and I will not revisit all of those, but we  
10 do appreciate the opportunity to comment again, and since  
11 those comments really address a multiple of issues, I am  
12 going to limit my oral comments today to the part of the  
13 plan's recommendation to pursue the Target Efficiency  
14 Strategy, rather than the All Cost Effective.

15 First and foremost, I would say that that  
16 strategy does not fulfill the statutory mandate of Section  
17 16a 3b or Public Act 07-242, whichever way one wants to  
18 refer to it.

19 And I know you all are very familiar with  
20 what the directive of that is, but it's not a goal. It  
21 says that resources shall first be met by. The wisdom of  
22 this policy becomes abundantly clear when one looks at the  
23 IRP's analysis of the relative costs and benefits for all  
24 Connecticut residents of the plan's All Cost Effective or

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1 ACE Strategy to those of the target strategy.

2 The benefits of the All Cost Effective  
3 Strategy far outweigh those of the target one in each of  
4 the following analyzed categories, energy costs, resource  
5 demand, cost of meeting the state's renewable portfolio  
6 standard and progress towards meeting federal and state  
7 environmental standards.

8 Specifically, the All Cost Effective  
9 Strategy saves consumers 423 million dollars a year more  
10 than the reference of current investment level, an  
11 additional 314 million over the recommended target  
12 strategy.

13 In addition, those larger savings become  
14 available for consumers to spend elsewhere in the state's  
15 economy, rather than being sent out of state to buy fossil  
16 fuels for generation.

17 As a result, ACE contributes 5.6 dollars to  
18 the gross state product for every dollar invested in  
19 efficiency. For the ACE Strategy, that translates into a  
20 half billion dollar increase in gross state product every  
21 year.

22 Those efficiency investments also create  
23 jobs, as been noted, but mostly those were noted, the ones  
24 that are directly in the delivery of energy efficiency

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1 services, but they are far more significant in the wider  
2 economy, because the money consumers save on energy bills  
3 is redirected and creates jobs in other sectors, also  
4 making the state more competitive.

5           Actually, the correlation between those is  
6 really a result of research that ENE did, which we  
7 attached that report to our earlier comments, but for  
8 every one job that Mr. Halpin was talking about in the  
9 energy efficiency field funded by energy efficiency  
10 investments, we create five or six jobs elsewhere in the  
11 economy, because of the savings that customers have on  
12 their bills.

13           Today, while always important, those 36  
14 hundred additional jobs created by the All Cost Effective  
15 scenario become even more significant in today's economy  
16 when the state has very few job creation opportunities and  
17 certainly none that are essentially no cost.

18           Concerns also are expressed by some over  
19 the uneven utilization of efficiency programs that you  
20 were getting at, Jeff, and the customer classes also  
21 supports the All Cost Effective expansion over the target  
22 investment proposal.

23           The target strategy would only increase  
24 program offerings in four high return areas, thereby

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1 limiting the number and demographics of the beneficiaries.

2 Implementation of residential air  
3 conditioning, new construction of zero energy homes,  
4 replacement of large industrial commercial chillers and  
5 other high potential commercial measures, while  
6 beneficial, would shortchange small businesses and low and  
7 middle income customers, because the target strategy does  
8 nothing to expand the programs that are available to all  
9 customers.

10 In addition, the limited nature and  
11 duration of those four targeted measures would not provide  
12 the long-term consistency or certainty of program  
13 investments that is critical to maintaining the energy  
14 efficiency service industry in the state.

15 And, particularly, as you were noting,  
16 Mike, as neighboring states, like Massachusetts, are  
17 dramatically increasing their long-term commitment to  
18 expanded efficiency programs, I don't think Mr. Halpin is  
19 going to be hiring people from Massachusetts. I think it  
20 will go the other way.

21 We have repeatedly seen business customers  
22 and contractors become frustrated and jobs leave the state  
23 when political actions have reduced or threatened, as they  
24 are once again, the level of funding for these programs.

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1                   On the other side of the balance sheet, the  
2 major rationale for the target recommendation seems to be  
3 that it results in a very minor rate decrease for all  
4 customers, including non-participants. It is important to  
5 view that, quote, "savings" in terms of the minute  
6 difference in rates between the target and the ACE  
7 strategies and the much larger savings on bills under the  
8 ACE scenario.

9                   As illustrated in the IRP, that difference  
10 in rates is less than two-tenths of a percent, two-tenths  
11 of a cent, sorry, or roughly 90 cents a month for the  
12 average customer.

13                   Put another way, though the absolute rate  
14 impact per kilowatt hour under ACE may be a tenth of a  
15 cent or so higher, the average bill savings for a customer  
16 under the ACE scenario is eight dollars, because they buy  
17 less energy.

18                   And, importantly, while not all customers  
19 may choose to participate in the programs, the expansion  
20 of all program offerings that would occur under the ACE  
21 Strategy means that over time more and more customers will  
22 become participants.

23                   In addition, the very limited participation  
24 more than offsets any small increase in rates. As a

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1 matter of fact, a customer, who purchased just one single  
2 subsidized compact fluorescent light bulb to replace an  
3 incandescent one will save far more energy in their energy  
4 bill in a year than they pay as a result of the less than  
5 two-tenths of a cent increase in their rates.

6 In accordance with the statute, the IRP  
7 also evaluates the environmental costs and benefits of the  
8 two strategies, and, once again, the ACE Strategy not only  
9 achieves far greater reductions of criteria pollutants in  
10 CO<sub>2</sub>, but by reducing the demand lowers the amount of  
11 renewable generation needed to meet the RPS.

12 While human health is the obvious  
13 beneficiary of reducing NO<sub>x</sub> reductions, non-compliance  
14 with ozone standards, again, what is the cost of not doing  
15 these things, would also cost the state hundreds of  
16 millions of dollars a year.

17 In sum, we really urge the Board to  
18 recommend the All Cost Effective Strategy investment,  
19 rather than the target strategy, in order to conform with  
20 state law, provide all classes of the state's electric  
21 customers the much more significant energy cost savings,  
22 environmental benefits and avoided costs and the wider  
23 economic and job benefits that the All Cost Effective  
24 investments would deliver. Thank you.

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1 CHAIRMAN CASSELLA: Thank you. Any  
2 questions? I got a couple, and they're real questions.

3 MS. STRATTON: Yes.

4 CHAIRMAN CASSELLA: I don't know the  
5 answers to these.

6 MS. STRATTON: And you think I do?

7 CHAIRMAN CASSELLA: They're not for the  
8 record. How do you get that All Cost Effective is what's  
9 intended in Section 07-242? I mean I have it in front of  
10 me, and I think it's a reach, which is okay, because I'm  
11 willing to make that reach, and I think we're trying to  
12 get people to make that reach, but I'm just curious.

13 MS. STRATTON: Two things. I think, if you  
14 look at both Subsections B and C, the first one says, you  
15 know, shall meet the state's energy needs through all  
16 available energy efficiency and demand side resources that  
17 are cost effective, reliable and feasible, and then C says  
18 resources shall first be met through all available  
19 efficiency and demand resources that are cost effective,  
20 reliable and feasible.

21 And the ECMB determines what is cost  
22 effective, what costs less than new generation. It's  
23 basically a loading order, very much like California has.

24 CHAIRMAN CASSELLA: Yeah, but how do you

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1 define need?

2 MS. STRATTON: Need is combination of  
3 capacity and resources, and if you read the statute, it  
4 says, I mean, that's one of your charges, one of the IRP's  
5 charges, to determine both, and, as has happened in recent  
6 years, after a lot of hard work, ISO and others now  
7 recognize efficiency as a resource.

8 CHAIRMAN CASSELLA: Okay and then the next  
9 question I had was having to do with the participants.  
10 Well, actually, having to do with the cost. Is it  
11 conceivable that you could do the All Cost Effective  
12 without increasing the system's benefit's charge if you  
13 got sufficient and ample financing or other people's money  
14 into the mix?

15 MS. STRATTON: Yes, and I think certainly  
16 the ECMB and the legislature are looking at other ways of  
17 providing that income. One of my biggest fears, and I  
18 guess I can say it in this room, but I don't want to give  
19 them more SBC charge to rate, and it becomes very, very  
20 frustrating, particularly as someone who is involved in  
21 creating that, to see how it has been manipulated and  
22 used.

23 So, yes, I think we should look at other  
24 options, but I think, fundamentally, the law says that

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1 we're going to spend -- nobody seems to argue about  
2 spending that money on the generation resource, and  
3 everybody pays for that, both in their rates and in their  
4 absolute use, and when you start to talk about the  
5 miniscule differences in rate between the All Cost  
6 Effective and the targeted, they actually vanish when you  
7 look at the fluctuation in the resource price, in terms of  
8 generation.

9 CHAIRMAN CASSELLA: How do you sort of  
10 measure the number of participants? I mean you just  
11 mentioned that one person with one bulb basically recovers  
12 the cost of what they pay in.

13 COURT REPORTER: One moment, please.

14 CHAIRMAN CASSELLA: One of the numbers I've  
15 heard as part of this whole process is 90 percent of the  
16 ratepayers in Connecticut have purchased at least one CFL.

17 MS. STRATTON: I would guess that might  
18 well be true. We actually have been working with both  
19 U.I. and CL&P to get figures, and the participation rate  
20 is certainly far higher in the CNI customer class, but I  
21 think the point becomes that the longer these programs  
22 continue, the more they are accessed by people of all  
23 customer classes, and we're starting to do a much better  
24 job of marketing them, etcetera.

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1 CHAIRMAN CASSELLA: I think the  
2 participation rate in CNI is about 50 percent to date.

3 MS. STRATTON: Yeah, and, again, I'm not  
4 sure how, you know, as you ask, is that utilizing  
5 anything, or is that doing something as significant as  
6 home energy solutions or something, but, certainly, you  
7 know, most people have bought the CFL.

8 CHAIRMAN CASSELLA: Most people have been  
9 given CFLs.

10 MS. STRATTON: Or given one, right, and  
11 then the cost is absolutely nothing.

12 COURT REPORTER: She's not going to be on  
13 the record.

14 CHAIRMAN CASSELLA: You need to get to a  
15 mike.

16 MS. HILDT: Sorry. In Massachusetts,  
17 Energy Efficiency Advisory Council has, and the utilities  
18 involved, have done extensive study of this bill versus  
19 rate impact, and I can forward along a PowerPoint to you  
20 all, if that's helpful, to see how they evaluate it.

21 CHAIRMAN CASSELLA: Yeah, absolutely. You  
22 obviously made some decisions based on some study. Okay.

23 MR. GORDES: One thing occurred to me, and,  
24 again, Mr. Legere brought up the word holistic earlier in

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1 the conversation in relation to the Siting Council, and  
2 let me ask you this, too.

3 If we went to the All Cost Effective and  
4 some of our state mandates are not strictly on energy, but  
5 on certain things, like NOx, SOx, CO2 types of --  
6 environmental types of goals, does ENE have any figures,  
7 specifically, of what it would take to meet those goals  
8 outside of the efficiency programs versus trying to get  
9 people out of their cars, or some other methodology to  
10 reduce those, like, in other words, make our non-  
11 attainment goals.

12 MS. STRATTON: You're saying to achieve the  
13 NOx or the --

14 MR. GORDES: Yeah. Is there some cheaper  
15 way, or are we taking it from another product? We're  
16 interested in rate pressures and such and mitigating  
17 those, but if doing it through the rate through these  
18 programs is more cost effective, rather than something  
19 else, is there some supporting evidence of that?

20 MS. STRATTON: I don't know of any specific  
21 analysis, Joel, but I think, if one looks at it, and you  
22 certainly remember doing this, too, at the do-ability of  
23 reducing emissions in categories that are regulated versus  
24 trying to get people out of cars, etcetera, the

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1 achievement of that is certainly far more certain, and the  
2 investments in mass transit that really would be  
3 necessitated to fundamentally alter the transportation  
4 experience or patterns in the state are huge, so you start  
5 to talk about 10 billion dollars in transmission, and you  
6 start to talk about billions of dollars in commuter rail  
7 lines, it would be an interesting analysis in what would  
8 be the actual results and redemptions of VMT. I don't  
9 know.

10 MR. GORDES: I mean for those who keep  
11 saying they're interested in cost, I think, again, we have  
12 to look at, like Mr. Legere said, the holistic cost,  
13 rather than just this bucket versus that bucket.

14 MS. STRATTON: Yes. Absolutely.

15 MR. GORDES: Thank you.

16 CHAIRMAN CASSELLA: Next up is Andrea Cohen  
17 Kiener.

18 MS. ANDREA COHEN KIENER: My name is Andrea  
19 Cohen Kiener, and I'm the Director of Connecticut  
20 Interfaith Power and Light, because Interreligious Eco  
21 Justice Network was not long enough of a name. (Laughter)

22 Thank you for the opportunity to address  
23 the Board today. I'm not going to be talking chapter and  
24 verse about the IRT, or about Deuteronomy, or anything.

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1 That's my day job.

2 I wish to speak to the importance of  
3 sustained support for conservation All Cost Efficient  
4 Strategy. This is a win-win-win approach. It creates new  
5 jobs, but not just new jobs, new careers, new sectors of  
6 the economy, all of them necessarily local jobs and  
7 dignified careers for many.

8 Conservation leaves ongoing savings in its  
9 wake for every sector of the economy, residential,  
10 municipal, low-income, small business and CNI. We haven't  
11 saturated any of those markets.

12 It is investment with true dividends and  
13 are both social, economic and environmental. Conservation  
14 also reduces the need for future energy generation. This  
15 means avoidance of startup costs, expenses, siting battles  
16 for traditional generation.

17 Reducing the need for all new generation of  
18 any source, nuclear, coal, or fossil, whatever, has  
19 independent merits, reducing the need for those demands  
20 anyways, has independent environmental merits, and that  
21 should be a cornerstone of our energy policy.

22 Conservation efforts must be supported in a  
23 clear and consistent way. There is a bust/boom cycle that  
24 you're familiar with that is imposed by funding delays and

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1 funding shortfalls just as the market is building, and  
2 that is devastating to the chain of supply and demand in  
3 the market, as Chris indicated to us. I want to say just  
4 one other comment about that aspect, which is the  
5 consciousness, the technology and the skill, -- the market  
6 for conservation is developing, and since the state and  
7 utility through your exegesis there has such a direct  
8 impact on the market, you really, really have to be  
9 cognizant of that.

10 Really, I mean there's days that I think we  
11 should just get out of the business and let market factors  
12 take their hold and do it that way, because every little  
13 move back and forth that we put out there, in terms of the  
14 parameters of what we want to support, really effects the  
15 market in a drastic way, so we have to push this. If  
16 we're behind it, we have to be behind it.

17 There is no independent market behind this,  
18 besides us. I think that gives us an additional  
19 responsibility.

20 So I just want to say one other quick  
21 comment, and that is that I think that when we talk about  
22 our energy picture, it's just so enormous that there's a  
23 tendency to sort of think about transmission projects and  
24 large sources of generations. There may be sort of a

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1 natural disinclination to look at small projects, but what  
2 I want to say about that is that anything that's small,  
3 that's scaleable, that can be repeated again and again,  
4 that is actually large. It's a different way of looking  
5 at large.

6 And, so, I want to state, in closing, that  
7 a vibrant conservation policy must be the foundation of  
8 our energy spending priorities. Thank you.

9 CHAIRMAN CASSELLA: Thank you.

10 MS. COHEN KIENER: No comments?

11 CHAIRMAN CASSELLA: Thank you. Roger  
12 Smith?

13 MR. ROGER SMITH: Thanks for waiting for  
14 me. My name is Roger Smith, and I'm campaign director for  
15 an Environmental Non-Profit Clean Water Action. We have  
16 25,000 Connecticut members, and we've worked on energy  
17 related issues in Connecticut since 1998, when we started  
18 working on the issue of the "SootySix" power plants.

19 I'm not going to read from my testimony, as  
20 you have it before you. I'm just going to try to hit some  
21 of the main points in maybe a slightly different manner.

22 The first one is that we ask you to fully  
23 fund the All Cost Effective demand side management  
24 strategy, as others have talked about. We think that this

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1 is the strategy that the statutes call for, and when we  
2 look at the environmental impacts, including NOx and  
3 greenhouse gas emissions, it actually reduces them at  
4 negative overall cost. You can't do that any other way.

5 As Section 216 report states, All Cost  
6 Effective Efficiency would mean a savings of over 400  
7 million dollars per year in customer energy costs, and it  
8 would be foolish to leave any of that money on the table.

9 I actually spent a good amount of my time  
10 at the DPUC and at the UCMB trying to help improve our  
11 energy efficiency programs in a way that increased  
12 customer participation.

13 There's a tremendous amount of untapped  
14 potential in small business and also in the residential  
15 sectors, and I've been frustrated over the years that  
16 people are being turned away, due to a lack of funds.

17 Otherwise excellent programs, like Home  
18 Energy Solutions, are limited in the number of households  
19 they can serve, and, due to budgetary limits, don't yet  
20 provide significant incentives and financing help to do  
21 deep retrofits, and this rationing mentality carries over  
22 to program planning. In recent discussions about the  
23 potential to use community-based outreach and education to  
24 get more people aware of the programs, we're creating

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1 incentives to help residential customers afford deep  
2 retrofits. Everything is rationed, assuming that existing  
3 budgets are continued.

4 Home Energy Solutions helps about 15,000  
5 homes a year to make basic energy reductions. We have  
6 over a million households in Connecticut with many old  
7 buildings, which could feasibly reduce their own energy  
8 use 30 percent or more with help.

9 We've got to think a little bigger, and  
10 we've got to think like New York, like Massachusetts and  
11 like Vermont. And just looking at the difference in costs  
12 between the DSM target scenario and the costs, All Cost  
13 Effective efficiency, I mean we're talking .1 to .2 cents  
14 per kilowatt hour on average, which is about 70 cents to  
15 1.40 a month on an electric bill that's over 140 dollars.

16 And my two cents is that this additional .2  
17 cents for energy efficiency is the best money a  
18 Connecticut ratepayer could buy, in terms of any energy  
19 resource.

20 Environmentally, if you look at the worst  
21 scenarios for SO<sub>2</sub>, for NO<sub>x</sub>, for greenhouse gas emissions,  
22 for the high electricity demand days that cause our ozone  
23 smog problem, it's pretty clear that under all those  
24 scenarios, the high load growth one is the one that we

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1 absolutely have to avoid.

2 Energy efficiency is the cheapest way that  
3 we can do that and help protect the health and well being  
4 of our residents.

5 Secondly, I'm pleased to see that there are  
6 some clear benefits of implementing our renewable  
7 portfolio standard in conjunction with our neighboring  
8 states implementing theirs.

9 It describes a 40 percent reduction in coal  
10 generation, a steep decline in oil generation, that gas  
11 use overall wouldn't go up, because wind would be  
12 displacing natural gas in the wintertime. I mean this is  
13 absolutely, you know, tremendous for public health, and I  
14 really urge the CEAB to support continuing in the Class I  
15 RPS and for Connecticut to continue to work with our  
16 regional neighbors to remove regional siting barriers to  
17 wind.

18 I did notice that the scenario about in  
19 state renewable generation might be useful for comparison  
20 purposes, but wasn't a realistic scenario. I would ask  
21 that the CEAB not dismiss any potential for in state  
22 renewables and include a modest in state solar component,  
23 as outlined in the 2009 KEMA solar strategy, given that  
24 solar is abundant as a resource and has significant future

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1 economic potential.

2           The real purpose of that work group, which  
3 I was a part of, was to figure out over the next decade  
4 what sort of strategy, what sort of scale for solar would  
5 we need to get it to a point where it can compete with  
6 conventional generation resources, and the results from  
7 that survey were that if we had over 200 megawatts of  
8 solar by 2020, which is about one percent of our overall  
9 generation needs, we would be able to get it to a point  
10 where it's cost effective and can stand on its own two  
11 feet.

12           And to put that in comparison,  
13 Massachusetts is right now looking at 270 megawatts. It  
14 might expand to 400. And New Jersey a couple of weeks ago  
15 just changed its RPS to 5,000 megawatts of solar by 2026.

16           And the real benefit to solar is that it  
17 displaces the dirtiest and most expensive peak generating  
18 power. It leverages private investment, so it's not just  
19 ratepayers that are footing the bill for these facilities.

20           It displaces retail power, not wholesale power, it's  
21 fuel-free, and it's also rapidly decreasing in cost.

22           If we get the infrastructure in place now,  
23 which means customer acceptance, it means a network of  
24 installers, in the future, when it becomes competitive on

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1 cost, we're going to see a massive ramp up in solar, and  
2 the state isn't going to have to pay for it.

3 And, finally, rather than spending time and  
4 energy studying nuclear power, which doesn't seem to be  
5 feasible on a reasonable time scale, I'd urge the CEAB to  
6 do a more detailed study on clean distributed generation,  
7 like combined heat and power, because that section of the  
8 IRP was among the least detailed and didn't really include  
9 detailed policy recommendations.

10 We also need to look more broadly at the  
11 environmental impact of nuclear. It's not just NOx and  
12 SOx. It's also long-lived radioactive waste and massive  
13 water withdrawals, which are a concern for a group like  
14 ours that has water as a middle name.

15 So, with that, I'll thank you, and I'd be  
16 happy to answer any questions.

17 CHAIRMAN CASSELLA: Thank you. Our next  
18 two speakers are Susan Olson and Sharon Voche from PACE.  
19 Now I have to tell you a dirty little secret. It's our  
20 tradition, our rule that you still get seven minutes, or  
21 whatever the amount is, so you both --

22 MS. SUSAN OLSON: One sheet.

23 CHAIRMAN CASSELLA: Okay. Just wanted to  
24 warn you. Thanks.

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1 MS. OLSON: Hi. I'm Susan Olson. I'm  
2 honored to be speaking to the panel that will recommend  
3 the energy strategy to the DPUC for the State of  
4 Connecticut.

5 I'm an ordinary citizen and a Board member  
6 of PACE, People's Action for Clean Energy. PACE is an  
7 advocacy group for renewable energy, and its tours of  
8 innovative eco-friendly houses have been attended by over  
9 15,000 Connecticut people since 1974.

10 I personally invite each of you to consider  
11 participating in one of the next tours on April 10th,  
12 showcasing an owner-built, zero energy challenge home in  
13 New Hartford, and, on May 15th, highlighting the first  
14 lead platinum residence in New Canaan.

15 My family has benefited from the  
16 Connecticut Clean Energy Fund Rebate for photovoltaic  
17 panels that provide 50 to 75 percent of our electric usage  
18 summer and winter. The panels were made in China, but the  
19 installers were all local people.

20 We particularly selected a company that had  
21 a track record in our area, because we wanted to be able  
22 to call on them again. If there were panels made locally,  
23 we would have liked it even better. Our panels are  
24 visible from the road, and from time-to-time we're

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1 surprised by people coming to our door inquiring about  
2 them.

3 We're glad to answer their questions. We  
4 also refer them to the Connecticut Clean Energy Fund  
5 website. In this economy, solar panels represent a  
6 significant investment for our family, about what one  
7 would spend on a car, but like an investment and not like  
8 a car, we receive payback every month.

9 We are also participating in creating a  
10 future that we want. Of course, before making this big  
11 commitment, we examined our house from top to bottom,  
12 adding insulation, changing to lead and compact  
13 fluorescent lights and upgrading to Energy Star  
14 appliances.

15 Therefore, in terms of the alternative  
16 scenarios presented in the Integrated Resource Plan, I  
17 most support making the greatest possible conservation and  
18 efficiency investments and developing both in state and  
19 regional renewable energy resources. It makes sense to  
20 me.

21 I specifically do not agree with or support  
22 the nuclear option. The recent troublesome experience at  
23 Vermont Yankee demonstrates significant problems with this  
24 technology. In addition, how can we justify saddling

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1 future generations with radioactive waste for our short-  
2 term benefit? That's my issue. I think we can do better.

3 Thank you.

4 CHAIRMAN CASSELLA: Thank you.

5 MR. GORDES: Just a question I have, too,  
6 and I should have probably asked Roger, and it goes back  
7 to the question being I don't think it says we're going  
8 to, you know, build a plant. It says we're going to study  
9 it. Is there some problem?

10 It seems like some of the remarks that I  
11 read coming in had a problem with studying it. Which way  
12 am I to interpret this?

13 MS. OLSON: At this point, I don't -- as a  
14 citizen, I have concern about it, because of the big  
15 picture.

16 MR. GORDES: Studying it?

17 MS. OLSON: Well there's limited resources.  
18 I imagine, sure, if you study it, you will be spending  
19 time doing that, and we have other avenues that also are  
20 worthy of study.

21 MR. GORDES: I think my colleague, Tim  
22 Cole, has made a very powerful argument to study more  
23 closely combined heat and power, which we're going to do.  
24 We're going to have a special session on that coming up

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1           shortly.   The 21st?   The 23rd?

2                           And, so, we're finding the resources  
3           somehow to do that.

4                           MS. OLSON:   Okay.

5                           MR. GORDES:   I have also, in a draft, it's  
6           not even been released, and a few others, where I say that  
7           the IRP is not holistic and not looking at options, and  
8           among those is a moderately decentralized scenario, making  
9           use of maximum achievable energy first, in combination  
10          with combined heat and power distributive resources, micro  
11          grids and so on.

12                           And then there's another scenario, looking  
13          at it even for more heavily looking at decentralized  
14          energy options, because the IRP has not roamed with the  
15          times, so I'm mandating that, but to not study it as  
16          Americans, aren't we free and open and willing to study  
17          anything?

18                           MS. OLSON:   As long as we study the whole  
19          cost.   I mean we have to be big in our view.

20                           MR. GORDES:   But, I mean, you know --

21                           MS. OLSON:   And there are things that  
22          haven't been resolved yet.

23                           MR. GORDES:   That's why we study it.

24                           MS. OLSON:   Okay.   I'm a student.

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1 MR. GORDES: I don't mean to beat up on  
2 you.

3 CHAIRMAN CASSELLA: All right, he's done.  
4 (Laughter) I want to go back to Roger, though. Roger,  
5 you said, and you don't have a mike, what did you say  
6 about the timetable relative to nuclear? You said  
7 combined heat and power is more likely to be implementable  
8 on a relevant time scale.

9 My question is what's a relevant time scale  
10 in your mind, because a relevant time scale in our mind  
11 when we started this was 10 years, and then it went to 20  
12 years, and now it's gone to 40 years, because we look at  
13 the legislation that just came out of the Environment  
14 Committee in 2008, which says we're going to reduce our  
15 carbon emissions by 80 percent over 1993. You can't get  
16 there from here.

17 I mean how do you get there without looking  
18 at other technologies and what's a relevant time frame?  
19 Well I guess it's just a rhetorical question. What's a  
20 relevant time frame? What's a relevant time frame for  
21 you?

22 MR. SMITH: Well, then, I guess a  
23 rhetorical answer (laughter).

24 CHAIRMAN CASSELLA: It's not a rhetorical

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1 question.

2 MR. SMITH: I mean I thought initially that  
3 it was a 10-year time scale you were looking at.

4 CHAIRMAN CASSELLA: It was.

5 MR. SMITH: In terms of the planning  
6 process. Given that there's a moratorium on the books,  
7 there's really no movement for anyplace to put the waste  
8 nationally.

9 CHAIRMAN CASSELLA: Well I'm not worried  
10 about that. I think we're smart enough, if we let  
11 ourselves be creative, that we can come up with  
12 technological solutions.

13 Maybe I'm wrong, but, you know, three years  
14 ago, everybody thought we were in a gas crisis. We've got  
15 more gas now than we know what to do with. We're going to  
16 be drinking it. We've got a 31-year supply of shale gas  
17 sitting not too far away from us.

18 Okay, it's got hairs on it. I understand  
19 the environmental issues, but that's American technology.  
20 We learned how to drill smarter. We learned how to  
21 hydrofracture. Okay. Like I said, it's got environmental  
22 issues, but we can deal with those, I think, but it's the  
23 same thing with this nuclear issue, as far as I'm  
24 concerned.

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1 I just don't know how we're going to get  
2 there from here if we don't look at all the options.

3 MR. SMITH: I mean I'd ask you to look at  
4 it as much as you want. In the existing IRP, you actually  
5 analyzed the nuclear scenario.

6 CHAIRMAN CASSELLA: Right.

7 MR. SMITH: There was no such analysis for  
8 combined heat and power, for example. So I'm saying, if  
9 you had limited time and resources today, try to have a  
10 broader look, rather than diving deeper into one  
11 particular option, which, to me, seemed to be starting  
12 with the outcome and then figuring out how to get there,  
13 rather than looking at everything and then going in that  
14 direction.

15 CHAIRMAN CASSELLA: Let me back up to the  
16 combined heat and power observation, though. We just did  
17 a study on combined heat and power, so is it that it  
18 didn't make its way into here that you're concerned?

19 MR. SMITH: Yeah. I mean I'm familiar with  
20 the case study that came out on that, and I didn't really  
21 see much evidence in the IRP than it had been looked at as  
22 if it were a scenario or a component of the IRP on the  
23 same level as everything else. And it could have been a  
24 timing issue, and I'm not saying anything is wrong with

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1 that.

2 CHAIRMAN CASSELLA: No, no. It's not a  
3 timing issue. It's just it's, again, it's a question of  
4 resources and priorities, and it is on our list of  
5 priorities, as far as what's going to come out of our  
6 reaction and what's going to come out of our report,  
7 right? Now I know we're working on CHP.

8 MR. SMITH: Just in terms of the time frame  
9 with nuclear, I mean the major issues to me it seems that  
10 you can't build nuclear power in a deregulated state,  
11 because nobody is going to put up the capital.

12 CHAIRMAN CASSELLA: Right.

13 MR. SMITH: There's no private financing  
14 for this. Even with loan guarantees, who knows?

15 CHAIRMAN CASSELLA: Right.

16 MR. SMITH: Combined heat and power, you  
17 know, you can actually site it, you can build it, people  
18 will finance it from the outside, solar, many of these  
19 other renewables, so in terms of the time frame, I'm  
20 saying these things are actually ready to go. Let's look  
21 at what the potential is, and if you want to study  
22 nuclear, because maybe it will be viable in 30 years, I'm  
23 not going to say don't do that.

24 CHAIRMAN CASSELLA: The best of all worlds

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1 is you do the combined heat and power and you put one of  
2 Joel's small nuclear reactors in there.

3 MR. SMITH: As long as it's at Joel's  
4 house.

5 MR. GORDES: Actually, there were plans for  
6 ones in your basement.

7 CHAIRMAN CASSELLA: Yes. I've heard of the  
8 residential. All right, thanks. Okay. Sharon Voche?

9 MS. SHARON VOCHE: I'm actually the second  
10 of third from PACE. The third person, Wendy, came in too  
11 late to sign in, but I think she's been scared off by  
12 Joel.

13 CHAIRMAN CASSELLA: We all have.

14 MS. VOCHE: Well if you can convince her to  
15 come up? We'll try to keep the three of us, the Three  
16 Musketeers, within your time frame.

17 CHAIRMAN CASSELLA: Joel doesn't have a  
18 time frame. That's the problem.

19 MR. GORDES: I used to be out there.

20 CHAIRMAN CASSELLA: I know.

21 MS. VOCHE: My name is Sharon Voche, and I  
22 share my thoughts about this plan as a member of PACE,  
23 People's Action for Clean Energy, which has shown hundreds  
24 of Connecticut residents over the past several decades how

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1 well renewables work in Connecticut, and as a member of  
2 the First Congregational Church of Southington, and as a  
3 person of faith, who believes in the importance of  
4 environmental justice and that we have a moral obligation  
5 to consider what's best for our planet, our fellow humans  
6 and other species, as the founder of Sustainable  
7 Southington, a growing group of young people committed to  
8 making encouraging and encouraging others to make  
9 sustainable choices, and as a co-owner of Evergreen  
10 Energy, which installs solar, wind and geothermal systems,  
11 including a recent installation of a 15 kilowatt wind  
12 turbine in Avon.

13 Most of all, I've come today as a former  
14 teacher and a parent. The decisions we make now will  
15 impact our sons' and daughters' health and economic  
16 futures. I would like Connecticut to be a desirable place  
17 for these young people to raise their families, too.

18 I appreciate your working to consider many  
19 options. Obviously, some are better than others. One  
20 should be eliminated all together, so that resources are  
21 not unnecessarily wasted, and this is to the point about  
22 studying nuclear resources are required to study anything.

23 There is a myth, that nuclear power is  
24 cheap and clean, and neither is true. Please consider the

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1 words of the many organizations that have already  
2 documented why, including Clean Water Action, the Sierra  
3 Club, PACE, Portland. Lots of people have lots documented  
4 reasons. I don't need to go into details.

5 The sun shines and the wind blows for free,  
6 and the ground has stored the sun's warmth like a huge  
7 rechargeable battery. Let's not disregard or diminish  
8 renewable energy just because there's no corporation that  
9 will benefit from selling its fuel.

10 Once these systems are in place, the  
11 installer walks away without hoping to make more money on  
12 the deal. These installers, who, by the way, could help  
13 our local economy if Connecticut companies are hired to do  
14 this work, are happy to move on to the next installation  
15 to make their living and improve the environment.

16 Therefore, if the goal is to sustain and  
17 not just profit, then state renewables should be the  
18 cornerstone of the new plan.

19 CHAIRMAN CASSELLA: Thank you, Sharon.

20 MS. WENDY MADIGAN: Hi. My name is Wendy  
21 Madigan. I'm the newest member of the PACE Board, and I'm  
22 also a member of the Canton Energy Task Force. I could  
23 read my whole letter here, but --

24 CHAIRMAN CASSELLA: You could. That's all

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1 right.

2 MS. MADIGAN: I'm not going to go into the  
3 whole thing. What I want to say is, between my  
4 volunteering at PACE and also working on my Energy Task  
5 Force, I've met a lot of people, students, teachers,  
6 members of my town, concerned parents, and everybody are  
7 saying the same thing. They all support renewable energy  
8 source, and they also are looking to have help with  
9 conservation methods.

10 I should have started from the beginning of  
11 my letter. I knew this was going to happen. Anyways, I'm  
12 just hoping that we can further fund a lot of the programs  
13 through the Connecticut Clean Energy Fund and the  
14 Connecticut Energy Efficiency Fund that I've been  
15 promoting in my town.

16 CHAIRMAN CASSELLA: Thank you.

17 MS. MADIGAN: Thank you.

18 MR. GAUDIOSI: Again, to the three speakers  
19 from PACE, thank you very much for your comments, and much  
20 like I did with Chris earlier, I encourage you to use your  
21 influence and use your membership to contact your  
22 legislators with the same message you brought to us, in  
23 terms of energy efficiency, because that's the only way  
24 we're going to be able to keep the money where it is, is

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1 that people like yourself contact their legislators and  
2 have the people that you talk to and deal with on a daily  
3 basis do the same, so that we can insure that the  
4 conversation we're having here is to which level of DSM is  
5 best, is it a moot point, because there would be no level  
6 of DSM.

7 So, again, I thank you for your comments,  
8 and I encourage you to make them as loud as possible to  
9 the legislature.

10 CHAIRMAN CASSELLA: Thank you. Mandi  
11 Jackson?

12 MS. MANDI JACKSON: Hi. My name is Mandi  
13 Jackson. I'm here with the Connecticut Center for a New  
14 Economy. CCNE is a non-profit, with offices in both  
15 Hartford and New Haven, dedicated to improving the  
16 economic and social well-being of working families in  
17 Connecticut. I feel like I'm too short.

18 CCNE supports the All Cost Effective  
19 Strategy, because it has the potential to create thousands  
20 of new jobs, reduce utility bills for working families,  
21 and bring energy efficiency and economic benefits to low-  
22 income communities.

23 Connecticut has the highest energy costs in  
24 the continental U.S. Not only is this a deterrent to

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1 business growth and job creation, it also means extremely  
2 high utility bills for working families.

3 These bills were a hardship even before the  
4 economic crisis, but now it has become even more of a  
5 hardship for families in low-income communities.

6 What working families in Connecticut need  
7 most right now is to reduce the cost of living and  
8 increase family income and job security. That means new  
9 jobs with career paths, living wages and health care and  
10 relief from high utility bills.

11 Most of the money we spend on energy here  
12 in Connecticut, up to 90 cents of every dollar, goes out  
13 of state to pay for coal, oil, gas, or to the corporate  
14 profit of merchant generators, but through the All Cost  
15 Effective Strategy, the money we spend will go back into  
16 the local economy, creating jobs and revitalizing  
17 communities.

18 Most of every dollar spent on efficiency  
19 stays right here in Connecticut. Through labor and  
20 community partnerships, jobs created through efficiency  
21 programs can be made accessible to low-income communities  
22 through outreach, recruitment, job training, Union  
23 apprenticeships and real career paths.

24 We've seen this work in its early stages in

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1 Massachusetts, where the passage of the Green Communities  
2 Act in 2008 and the Coalition of Labor Community  
3 Environmental groups convened by Community Labor United  
4 established a blueprint for connecting energy efficiency  
5 standards to the creation of accessible secure living wage  
6 jobs for low-income communities.

7 CLU is coordinating four pilot projects  
8 right now in China Town, Lynn, Chelsea and Springfield and  
9 working with four different building trades Unions, the  
10 painters, the carpenters, utility workers and laborers,  
11 each involving local hiring and training for residents in  
12 the same low-income areas where weatherization will occur.

13 In other words, those communities get both the benefit of  
14 these efficiency programs and the jobs associated with  
15 them.

16 In Massachusetts, the utilities are  
17 financially supporting community outreach. That's door-  
18 to-door recruitment for both work program trainees and,  
19 also, for households to take part in these weatherization  
20 programs and the newly created efficiency jobs, which are  
21 sorely needed right now, pay Union wages of 22 dollars per  
22 hour, plus benefits, which is more than I make, I think.

23 This is what we need in Connecticut right  
24 now. CCNE can help bring together labor and community

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1 groups to facilitate this kind of door-to-door outreach  
2 and work recruitment and training. We also have a  
3 relationship with CLU and can facilitate learning more  
4 from the programs that they've already worked to establish  
5 in Massachusetts.

6 In closing, as an organization primarily  
7 concerned with economic and social justice, CCNE strongly  
8 urges the CEAB to support the All Cost Efficient Strategy  
9 and to recommend that the DPUC require full funding of the  
10 strategy.

11 The target strategies narrower focus would  
12 not only exclude lower income communities from  
13 participation and potential energy saving benefits and  
14 limit job creation, it would also limit the success of the  
15 program by restricting its reach to a smaller sector of  
16 the economy. Thanks.

17 CHAIRMAN CASSELLA: Thank you. Any  
18 questions? Melissa Patterson Meador? Hi.

19 MS. MELISSA PATTERSON MEADOR: Hello. I  
20 don't often speak in public, so this is a --

21 CHAIRMAN CASSELLA: Well we'll try to get  
22 Joel to behave.

23 MS. PATTERSON MEADOR: I came to support  
24 energy efficiency and the All Cost Effective Strategy,

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1 because it just makes -- it's common sense. We have an  
2 old adage that we all know, waste not, want not.

3 We have a lot of new technology that is in  
4 play today and coming on line and evolving for energy  
5 efficiency, but when you think about the business world,  
6 we know that when new products come to the marketplace,  
7 that they face barriers of entry, and they don't have  
8 economies of scale.

9 These new efficiency technologies,  
10 lighting, geothermal systems, solar, photovoltaic, all  
11 these new products can help us achieve our environmental  
12 and our energy goals and our economic goals, and I think  
13 it's in the best interest of the state and its people that  
14 we do whatever we can do speed the development of these  
15 businesses along. These are the businesses that are going  
16 to be part of the future.

17 I've heard people talk about nuclear, and I  
18 spent 20 years in the nuclear industry. Nuclear is not a  
19 new technology. Nuclear came out of the Cold War. It was  
20 a spin off. It was a government-financed spin off, and  
21 we've had 50 plus years, really probably about 60 years to  
22 develop a solution for waste and to lower the cost and all  
23 these other things, and that's not been done.

24 It's a very mature industry, and while I

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1 can't ever say that I would object to studying any type of  
2 energy generation or energy efficiency technology, I  
3 guess, if we have limited funds right now, I would have  
4 concerns about us spending those funds on something that  
5 we've been playing with for 60 years and don't have a  
6 solution in Connecticut, or at the national level, or even  
7 internationally.

8 Waste is a problem everywhere.  
9 Proliferation is a problem everywhere, as is evidenced in  
10 our daily news briefings on the situations in North Korea  
11 and Iran.

12 I did want to give you a little background  
13 on me, too. As I said, I spent 20 years in the nuclear  
14 industry, have a lot of friends who still work there, or  
15 did work there, so I have no personal grudges against the  
16 industry or any of its people. I just know the realities  
17 of that industry.

18 And I also have an MBA from the University  
19 of Connecticut, so I've studied the business side of new  
20 technology and product development. I've worked in that  
21 area. And I have currently gone back to school and am  
22 studying sustainable energy management at Eastern  
23 Connecticut State University.

24 I did want to make one comment. I didn't

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1 really come prepared to talk about costing of renewables,  
2 but we've been studying that, and the studies that I  
3 remember from last semester suggested that wind is on par  
4 and in some cases a better cost investment in coal for  
5 power generation, and that wind costs are coming down, and  
6 nuclear is the most cost intensive, capital intensive  
7 investment you can make.

8                   It's a long duration build, as it should  
9 be, because you do need a lot of redundant safety systems  
10 for a lot of different reasons. Security is one of them,  
11 as Joel has pointed out.

12                   The figures that I heard earlier today,  
13 about wind being not cost competitive, don't match up with  
14 the things that I'm learning currently at Eastern in the  
15 case studies that I've looked at.

16                   CHAIRMAN CASSELLA: Thank you. Andy Bauer?

17                   MR. ANDY BAUER: My name is Andy Bauer. I  
18 live in Portland, Connecticut. I chair the Portland Clean  
19 Energy Task Force, and so, for Jeff and Joel, this is  
20 going to be kind of part two of what we talked about in  
21 the summer.

22                   I'm definitely for the All Cost Energy  
23 Efficiency measures. I have worked closely with Rebecca  
24 Myer, and we have been able to get over 200 residents

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1 signed up for the Home Energy Solutions energy audit.

2 I just need to stress how much, again, this  
3 is one of the best kept secrets in Connecticut. People  
4 just don't seem to know that it's out there. I think, and  
5 I'm trying -- I'm doing whatever I can. I think we've had  
6 some success, you now, bolstering the signups. We  
7 continue to do that.

8 And when I tell people about how good this  
9 stuff is, they just kind of say, oh, what? Really? For  
10 how much? That much? So they really like it. They get  
11 the fact that this is going to drive down their energy  
12 costs.

13 In Portland, and, unfortunately, it made  
14 the news for all the wrong reasons, but when people drive  
15 down 66 in Portland and look across the river and they see  
16 the Kleen Energy smokestack, they're really like why do we  
17 have that there when we already have another, you know,  
18 energy plant there.

19 I'm somewhat well-versed, so I can talk  
20 about making more efficient plans, hopefully driving the  
21 old ones off line. I can do that whole thing, but far and  
22 away, it's like reverse nimbyism. It's like they don't  
23 want the power plant close by, but they want energy  
24 efficiency in their home, and once they find out a program

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1 like this, then they're all over it, so, obviously, that  
2 has my clear support, you know, for energy efficiency and  
3 conservation.

4 And just so you know, I do contact my  
5 legislators quite a bit, both on the national and the  
6 state level, and I try to be polite, as polite as Joel  
7 often is, in getting that point across.

8 I'd also like to throw in my two cents. I  
9 also have PV panels on my house. Joel, you and I spoke  
10 about this point just a week or so ago. I think we need  
11 to look at solar panels on people's homes and businesses  
12 as almost on an -- in terms of national security. We need  
13 to start looking at solar panels as one more tool in our  
14 arsenal, just like bullets and just like guns and just  
15 like soldiers, because if we can make this country energy  
16 independent, and I know it's not going to happen in my  
17 lifetime, but if we can do that and solar panels, wind  
18 turbines, fuel-free systems essentially, it's a great way  
19 to proceed.

20 I have to give my two cents on nuclear. As  
21 far as studying nuclear, as I wrote in my testimony, since  
22 nuclear power's numerous challenges show little evidence  
23 of being overcome, expanding Connecticut's nuclear  
24 facilities is not an option. I understand now you're

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1 talking about studying.

2 I guess where I'm coming from is, like the  
3 previous speaker mentioned, you know, nuclear power is,  
4 what, 55 years old? The way I look at it, and this is  
5 unkind, but it's accurate, I mean when a parent has a  
6 child, the parent is expecting that child to be self-  
7 sufficient like after they graduate college. Maybe they  
8 help them out buying a house, or buying a car, but nuclear  
9 power is the 55-year-old child still living in his  
10 parents' basement.

11 Can nuclear power financially survive  
12 outside of government assistance? The answer is clearly  
13 no. Do we have an answer for nuclear waste? Right now,  
14 we don't. And with regards to the study, I understand  
15 that, but for my two cents, this is a showstopper.

16 If we do not have the answer for nuclear  
17 waste, then it's the end of discussion. Until we get  
18 answers like that, then it remains a question.

19 Anyway, thank you very much for your time.  
20 I'd be happy to try to address any questions.

21 MR. GORDES: I'll just make a couple of  
22 comments. The combined cycle gas turbine is the let's say  
23 the grandchild of the combustion turbine, gas turbine jet  
24 engine. That started out actually in about 1903, and was

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1 about three percent efficient, and wasn't looked at for a  
2 long time until World War II.

3 Huge amounts of subsidies went into that,  
4 the people like Sir Frank Whittle(phonetic) in England,  
5 and Hans Oheim(phonetic) in Germany, and that  
6 subsidization is continued to this day with billions going  
7 into a program called IHPTET, the Integrated High-  
8 Performance Gas Turbine Engine Program.

9 So the subsidization continues for energy  
10 systems of all types up to now. And I'll say this, too.  
11 Think of it this way. PV has been around since 1954, when  
12 Bell Labs first developed the silicon model of  
13 photovoltaics, and it's still going to take awhile until  
14 it makes market parity, but there's been this strong  
15 component in some ways of government support.

16 The difference between the gas turbine and  
17 photovoltaics has been this, and that was the government  
18 did their R and V, but then they went on to procurement,  
19 billions of dollars worth of procurement for jet engines,  
20 for fighters, transports, everything else, which made jet  
21 flight available to us.

22 They did not do the same with  
23 photovoltaics, so there's a whole degree of difference of  
24 what's been given to photovoltaics versus what's been

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1 given to the others when people say, oh, PV is this, that  
2 and the other thing and costly. The procurement was never  
3 followed.

4 MR. BAUER: Well, then, I'd like to just  
5 offer this thought, and that is, if we had a program to  
6 have photovoltaics be 20 percent of this country's energy  
7 supply as nuclear is, if we were to do that over, you  
8 know, pick your time frame, then PV costs would just  
9 plummet.

10 In the '70s, they were, what, 100 dollars  
11 per kilowatt, and now they're, what, eight? And, again, I  
12 don't have the document. I can't source this right now,  
13 but I'm sure I could find it.

14 I understand that if we were to simply  
15 double our PV manufacturing base, without any substantive  
16 technological improvements, then the price would fall by  
17 50 percent again. So I look at PV and wind, you know, as  
18 energy technologies, which are in their maybe not  
19 embryonic stage, but certainly their infancy and the  
20 potential, I think, is just huge, whereas I think nuclear,  
21 I think, how much better is nuclear going to get?

22 I don't know the answer to that question,  
23 but I would say it does not have the potential as PV.

24 Thank you very much.

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1 CHAIRMAN CASSELLA: Thank you. Any  
2 questions? All right, well, then, having no other sign  
3 ups, I'll ask for final comments from the Board.

4 COURT REPORTER: One moment, please.

5 MR. GAUDIOSI: It seems most of the  
6 comments that we got today are geared towards the All Cost  
7 Effective option, and this really kicks off CEAB's study  
8 into this, as to what we will end up recommending.

9 But sort of having all of my hats on while  
10 I sit here, the ECMB has been really studying this for  
11 about six weeks now, and with the idea of, you know, I  
12 think everybody likes the All Cost Effective, but how do  
13 we get there?

14 As I mentioned in my comments, we're  
15 looking at a lot of financing options, a lot of different  
16 ways of doing it without increasing rates, and what we've  
17 heard today is the rate increase that would come with it  
18 is fairly minimal when you look at your average home.

19 I think the problem that we, meaning this  
20 Board, that Board, and all of us, see is when you start to  
21 get to the extremes, when you look at the large industrial  
22 company based here in Connecticut, where a slight increase  
23 on a mill rate really makes a huge difference, it gets  
24 into tens of thousands of dollars, as well as the other

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1 end, when you look at the very poor, where, you know, an  
2 increase of a couple dollars a month really does make a  
3 difference on quality of life.

4 So, as I mentioned, with the ECMB, our  
5 charge I guess we've given ourselves is how to find ways  
6 of reaching that All Cost Effective without it being a  
7 rate impact, and I give the same charge to everybody here  
8 today.

9 I encourage you to get back to us at the  
10 CEAB, to get back to the ECMB, or even myself, personally,  
11 and, you know, with any ideas you have on how to address  
12 that.

13 I mean it's simple, I would think, for all  
14 of us here to say, yeah, I'll spend an extra dollar a  
15 month, or 1.40 a month on my bill to get that, but we are  
16 not everybody that would be effected by that increase, so  
17 I'd say, as Chair as ECMB, we're looking at that, and I  
18 ask everybody out there that really backs this idea to  
19 sort of join us in looking on how to do that.

20 I know this Board, the ECMB and myself,  
21 personally, would welcome suggestions on that, and as  
22 we're wrapping up, simply because he didn't get to it, on  
23 behalf of Tim Cole, I'd just like to say Denmark  
24 (laughter). Thank you.

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1 MR. COLE: Is that my cue? I made a firm  
2 resolution I was not going to use that word today, but a  
3 certain northern European country.

4 Just picking up on what Jeff was saying, I  
5 think the thing, well two things, one, all of these  
6 strategies, whatever their merits, involve huge amounts of  
7 money, and figuring out that piece, and any thinking that  
8 anybody has about how we finance any of these strategies,  
9 I think that's something that we are wrestling with a lot.

10

11 It's one issue to think through what's the  
12 best option, in terms of economics and environment and  
13 cost, but figuring out how to get there is a huge issue.

14 The second point I would make, and it  
15 really, I guess, in a way is a request to many of you, I  
16 had a conversation with somebody from the Center for a New  
17 Economy yesterday, and I said one -- they have this great  
18 vision of community organizations, labor groups working  
19 together on weatherization programs and it's great, you  
20 know, and they have a model up in Massachusetts that does  
21 it.

22 Somebody has to do any one of these  
23 strategies. It has to be somebody's business to do it.  
24 We know whose business it is to do transmission. That's

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1 N.U.'s business, and they will do it. Why has the NEEWS  
2 project got a lot of muscle behind it? Because it's in  
3 N.U.'s interest to go down that path, and, so, they will -  
4 - and I'm not faulting them.

5 The point is there is somebody who is going  
6 to execute on that strategy. You go to Dominion, and they  
7 will work hard on the nuclear option, because it's in  
8 their interest to do so. And, again, I'm not faulting  
9 them.

10 If we want to implement some of these other  
11 strategies, there's a real question about who is going to  
12 do it, and I think that's something we all need to wrestle  
13 with.

14 We can make a policy. We can go to the  
15 legislature and twist the arm of the Governor and maybe  
16 get more energy efficiency dollars flowing, but it's still  
17 going to come down to whose job is it to make these things  
18 happen, and I don't feel like we collectively have a good  
19 answer to that, that some of these new departures we can  
20 do them on a piecemeal level, we can do them on the level  
21 of a community organization, but to get them to scale, you  
22 know, whose responsibility is it going to be to implement  
23 some of these strategies?

24 So I'm just throwing that out there as

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1 something that I'm thinking about. I mean those two  
2 things, how we finance any of these options, and who does  
3 something where there isn't already an obvious implementer  
4 in place.

5 CHAIRMAN CASSELLA: Joel? Nothing? I  
6 guess that concludes the hearing for today. I want to  
7 thank you all for coming, and please stay tuned to the  
8 CEAB website as this materializes. It has been a very  
9 open process, and we want to continue to keep it that way,  
10 and we'll be at this until we finish on April 9th, so  
11 thanks again.

12 (Whereupon, the hearing adjourned at 3:15  
13 p.m.)

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