

1           Technical Conference - 14-M-0101 - January 29, 2016

2   STATE OF NEW YORK  
3   DEPARTMENT OF PUBLIC SERVICE

4           14-M-0101   PROCEEDING ON MOTION OF THE COMMISSION IN  
5           REGARD TO REFORMING THE ENERGY VISION

6  
7                           TECHNICAL CONFERENCE

8                           Thursday, January 29, 2016  
9                           Empire State Plaza Convention Center  
                          Meeting Room #1  
                          Albany, New York

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2 (The conference commenced at 8:59 a.m.)

3 MS. SCHERER: Okay. Good morning. Is this  
4 working?

5 THE REPORTER: Uh-huh.

6 MS. SCHERER: First, the important stuff.  
7 The Wi-Fi password is state, all low letters, S-T-A-T-E, zero  
8 zero one -- state zero zero one.

9 So I'm LuAnn Scherer. I am not Michael  
10 Corso. Sorry to disappoint. I am in the Department's Office  
11 of Consumer Services.

12 I'm going to first make a few remarks and  
13 then I'll introduce the panel and the panel can give some --  
14 their -- their opening thoughts.

15 So as you probably know, the Commission, in  
16 its Track 1 order, affirmed that REV markets will result in  
17 more efficient system utilization with savings that accrue to  
18 all utility customers.

19 Further, the Commission expressed that -  
20 - expressed its interest in ensuring that low income  
21 customers benefit from REV. With this in mind, the white  
22 paper on rate making utility business models, Staff proposed  
23 a two-prong affordability Earnings Impact Mechanism, EIM.  
24 The purpose of the proposed affordability EIM is to gauge  
25 utility progress towards increasing affordability for low  
income customers.

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2                         First, Staff proposed that utilities be  
3 evaluated based on their implementation of a set of programs  
4 targeted at supporting low-income customers, use of DER to  
5 lower their bills.

6                         Second, Staff proposed the affordability EIM  
7 be oriented toward the total amount of terminations and  
8 uncollectible expenses.

9                         So the purpose of this panel is to discuss  
10 the affordability EIM. With that, I would like to introduce  
11 our panel. Yesterday you met Peter Zschokke, Director of  
12 Regulatory Strategy for National Grid, Kevin Lang who is  
13 partner with Couch White's Energy Group and represents the  
14 City of New York in this proceeding, and Marc Webster who is  
15 the manager. Marc has several titles. He's the manager of  
16 the Retail Access Customer Satisfaction and Appeals for NYSEG  
17 and RG&E.

18                         Also on the panel today is Janine Migden-  
19 Ostrander. Janine is a -- is with the Regulatory Assistance  
20 Project, or RAP, where she advises regulators and advocates  
21 on energy efficiency, renewable energy, demand response,  
22 distributed generation, and integrated resource planning.  
23 Janine has worked in public utility law for many years, most  
24 recently as the Ohio Consumers' Counsel where she oversaw the  
25 state agency that represents the interests of Ohio's  
residential households with their investor-owned electric,

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2 natural gas, telephone, and water companies. I also learned  
3 today that Janine is a native New Yorker, although she lives  
4 in Ohio.

5                       Richard Berkley is the Executive Director of  
6 the Public Utility Law Project, or PULP. Richard has a  
7 wealth of public interest service and experience in energy  
8 and telecommunications law, utility regulation, and  
9 legislative and regulatory policy.

10                      Valerie Strauss is the Director of Policy and  
11 Regulatory Affairs for the Association for Energy  
12 Affordability, or AEA. Valerie directs regulatory and policy  
13 activities in support of efficiency and clean distributed  
14 generation with a special emphasis on multi-family buildings  
15 and low moderate -- low to moderate income communities.  
16 Valerie has many years of experience in energy and  
17 environmental policy.

18                      So I'd like -- first like each of the  
19 panelist to make some -- provide us with their thoughts on  
20 the topic and then we'll open it up for questions.

21                      So do you -- do Utilities want to start? I'm  
22 not sure if there's one spokesperson or two.

23                      MR. ZSCHOKKE: There's one at this point.

24                      MR. WEBSTER: Right. Unless Peter wants to  
25 jump in here.

                    Good morning. Thank you very much, everybody

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2 being here. I also want to thank the Public Service  
3 Commission and the DPS Staff for hosting this forum.

4           I think we've seen on day one, we had some  
5 very good dialogue and -- and really good exchange of ideas  
6 and some information brought along. So I'm hoping that day  
7 two will bring just as much information.

8           I would like to speak on behalf of the -- the  
9 utilities and I'd like to point that the utilities do have a  
10 longstanding commitment and a very proven track record of  
11 supporting low-income programs. We have been dealing as we  
12 know with affordability in many different forums here, one of  
13 which is -- is the current affordability case. And a number  
14 of challenges have been identified and we keep these in mind  
15 as we move through any of these programs and any -- any of  
16 these policies.

17           Number one, identifying some of the low  
18 income customers has been a challenge. They are not always  
19 easy to find and, unfortunately, they are a more transient  
20 population perhaps than -- than others. So once you've  
21 identified them, they may not be in the same place for very  
22 long.

23           We -- we also have met some challenges with  
24 respect to whether a customer's low income status can be  
25 reported. So we want to keep those ideas in mind as we move  
forward because they will help to kind of, you know,

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2           circumscribe some of the discussion that we would have later  
3           on.

4                       The utilities, as we -- as we have discussed  
5           in the past, we don't necessarily recommend an earnings  
6           impact mechanism for affordability unless its reward only.  
7           And the reason we do that is right now under our service  
8           quality mechanisms with our -- in many of our rate  
9           settlements, we already address low income and affordability  
10          in those cases. So an EIM that would not be reward only  
11          could be doubling down on -- on, you know, the current low-  
12          income programs that we already have in place.

13                      And finally, the only other point I want to  
14          make before I turn it over to the rest of our esteemed  
15          panelists is that we do support looking at low-income  
16          programs in terms of a DER penetration if we were to do it  
17          in, say, a demonstration project. That would allow us the  
18          opportunity to maybe test customer interest and evaluate the  
19          effectiveness of these programs.

20                      So with that, I will yield to the rest of the  
21          group so we can get to the -- some of the Q and A.

22                      MS. SCHERER: Great. Thank you.

23                      MR. WEBSTER: Thank you.

24                      MS. SCHERER: Richard, would you like to --

25                      MR. BERKLEY: Sure, thank you.

                    MS. SCHERER: -- go next?

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2 MR. BERKLEY: Thanks, Kevin.

3 So I would also like to thank the -- the  
4 audience for turning up today. And I'd like to thank the  
5 Commission and Staff for inviting me on casual Friday. It's  
6 always nice to come in front of you on a day that I'm  
7 actually not wearing a tie and going out on TV so.

8 This portion of the proceeding, these  
9 technical conferences are both extremely important and  
10 they're important for a couple reasons. First -- and of  
11 course, all of you know there have been a blizzard of  
12 proceedings related to REV over the past year and a half.  
13 And there are number of reasons for that, one of which at  
14 least is that this is an extremely complicated first-time  
15 activity.

16 Another reason is that as Staff and the  
17 parties are moving forward to discuss all of the changes that  
18 REV is contemplating, there's been a great deal of difficulty  
19 in agreeing upon what the thing is that's at the heart of the  
20 change. As Alfred Hitchcock used to say what is the  
21 MacGuffin.

22 And so in this case, I'd like to start by  
23 observing that we have multiple proceedings going on under  
24 the REV banner in the area of affordability, but no  
25 standardized idea of what a low-income customer is or should  
be and no standardized idea of what affordability is.





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2 incentive, if the incentive is set too high -- and I think we  
3 all know this sort of intuitively, but if the incentive is  
4 too high, the incentive could be a fairly large amount of  
5 what the cost of the low-income program in theory would be.  
6 And I think I'm stealing Kevin's lines there but he's --

7 MR. LANG: Great.

8 MR. BERKELY: -- he's got a better turn on  
9 this than I do.

10 You'd be spending a significant amount of  
11 what you might otherwise be using to increase affordability  
12 for the low-income customers you're intending to help. And  
13 so some reasonable relationship between the size of the  
14 incentive and the size of the benefit has to be determined,  
15 either -- and of course the Public Utility Law Project would  
16 suggest raising the size of the benefit as a good way to keep  
17 the incentive at a reasonable relationship to that, but I --  
18 I think others might disagree.

19 With regard to the next question, which is  
20 what is the appropriate incentive to gauge affordability, I  
21 would argue first that the question needs to be reformulated  
22 a little bit, which is I think the question should be what is  
23 an appropriate incentive to drive affordability.

24 And so while you can create metrics upon  
25 which affordability might be based, I think the idea of a  
metric that gauges affordability seems a little odd to me.

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2 And so therefore, I'm hoping that my colleagues will be able  
3 to -- to educate me a little bit about this.

4 But just to, for the purpose of this  
5 discussion today, hypothetically one metric could be a  
6 combination of -- of terminations and lowering of arrears,  
7 sloping downwards simultaneously as opposed to crossing over  
8 in an X, which is one of the things that we're worried about,  
9 that terminations would go up as affordability or cost went  
10 down.

11 Another very simple metric could track a  
12 decrease in the base commodity cost paid by low income  
13 households versus the service territory rate average. And I  
14 would suggest that that would need to be regressed all the  
15 way down to the census tract level, because as we've been  
16 doing some research recently on some areas of the state and  
17 some of the utilities getting ready for rate cases and  
18 whatnot, we've seen that there are districts within a very  
19 wealthy section of the state, such as Westchester where the  
20 cost of housing has gone up so dramatically that even if the  
21 cost of dominant commodity remains relatively -- relatively  
22 the same as it had been for the past few years, that the  
23 effective impact upon the households would be such that  
24 affordability would -- would decrease dramatically.

25 And I'm not just talking about, you know,  
Brooklyn, but I'm talking also about Eastern Westchester. So

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2 that's a bit of a problem.

3           The second thing I think, when we're talking  
4 about incentive mechanism, is I think that we have to figure  
5 out first what is the genesis of the bad debt because the bad  
6 debt that is the eight hundred million plus in sixty days or  
7 older arrears is at least part of what's holding down or  
8 pressure upon affordability in the state.

9           And I think an evidentiary hearing into the  
10 matter of where that -- where that bad debt came from would  
11 be valuable first for us to be able to get at what it's  
12 driving on affordability, but second, to be able to come up  
13 with reasonable repairs to that problem.

14           And the last thing with regard to question  
15 three above is that we believe that if you are looking at  
16 affordability in a census tract by census tract basis, you  
17 have to do something about normalizing the cost of housing  
18 because the cost of housing in some parts of the state is  
19 obviously more expensive than just about anywhere, but it's  
20 also increased at different amounts by different census  
21 tracks across the state.

22           So if you were to examine, for example, the  
23 increase in fixed charges and add also the cost of housing,  
24 you would look and you would see incredible unaffordability  
25 in some parts of the state even where the fixed charges might  
be going up much faster in other parts of the state, but the

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2 housing cost were not moving up at the same speed.

3           And so I think -- again, I think we need a  
4 very careful granular evidentiary proceeding to tease apart  
5 all these things that might be driving unaffordability.

6           Last, and I think this is very important  
7 question which has to do with the penetration of DER into  
8 low-income communities. So I think first, there's a  
9 presumption embedded in that, that the Staff, the Commission,  
10 the parties can come up with a DER delivery process that  
11 somehow provides affordability benefits to low-income  
12 households rather than simply facilitating and outmigration  
13 of funding from the low-income and moderate-income households  
14 to cover subsidies to higher-income households. And I think  
15 that that's going to be a challenge going forward.

16           But if you're able to meet that, which is  
17 you're able to deploy DERs broadly to low-income households  
18 and that there's no outmigration of funds and you could --  
19 obviously, you could probably do that either by incentivizing  
20 the utilities to build or contract for long-term supply of  
21 low-cost DERs to those communities.

22           Then I think measuring penetration is -- is  
23 relatively simple. Once you figured out the mechanism that  
24 you're going to deliver it by, then you can attach metrics to  
25 it. But I think the key question there is -- is how do you  
measure the penetration of benefits?

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2 So assume that you put DER into those  
3 communities at the same cost as the utility. Is there any  
4 benefit to that? And that, in part, is what the two of the  
5 Commission's current proceedings are trying to tease apart in  
6 proceedings across the country, which is what is the value of  
7 DER.

8 And for the purposes today obviously a  
9 dominant value is affordability, but there's also a question  
10 of what else does or do those communities get in the process  
11 of getting DER. And let me stop there and we can go to  
12 questions later.

13 MS. SCHERER: Okay. Before I -- before I ask  
14 our next speaker, I just want to remind the folks on the  
15 phone to put your phones on mute if you are not speaking,  
16 please. Thank you.

17 Kevin Lang.

18 MR. LANG: Thank you. Good morning. And I'd  
19 also like to extend my thanks to the Commission, Commissioner  
20 Sayre's here. Thank you very much for listening to this  
21 important discussion and to Staff for putting this on. I  
22 think it's important, as I mentioned yesterday, that we have  
23 a dialogue on these issues and we don't limit the record to  
24 just submission of comments. I'll try to be very brief in my  
25 introductory comments.

Yesterday, I talked a lot about the value

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2 proposition and concerns about rewarding utilities, if we're  
3 going to do that, should be directly related to utility  
4 actions and not for actions of third parties.

5                       Slightly different bend as it relates to this  
6 issue, I actually agree a lot with what Richard said and with  
7 what Marc said. The first three questions that were posed in  
8 the notice sort of suggest that there's a decision that's  
9 been made that we need this incentive mechanism for  
10 affordability. But I don't think that's a correct  
11 assumption.

12                      The question is to what benefit would an  
13 earnings incentive mechanism provide. And I think that's  
14 completely unclear on this record from all of the comments  
15 that have been submitted in this proceeding. I don't think  
16 there is actually a lot of people that believe it's  
17 inappropriate to have such a mechanism. And before we start  
18 looking at what that mechanism should be, we need to actually  
19 determine whether there should be a mechanism.

20                      Echoing something that Richard said, I  
21 understand that recently in an Orange and Rockland rate case  
22 they adopted a mechanism to help work on reducing  
23 terminations and reducing uncollectibles. We're certainly  
24 very supportive of those two efforts, but if you were to  
25 apply a similar approach in Con Edison you could be talking  
about incentive levels in the tens of millions of dollars.

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2                           And in Con Edison rate cases, every time we  
3 have one, and one I believe is starting today, we fight over  
4 what that low-income discount should be, what the overall pot  
5 of money for the low-income program should be. And the idea  
6 that we would spend perhaps 50 percent of the cost of the  
7 low-income program on a shareholder incentive to make rates  
8 affordable really kind of defies logic.

9                           And that money, in our view, would much  
10 better be used by adding it to the low-income program and  
11 directly helping the customers, rather than the shareholders.

12                           So there's a couple of fundamental issues  
13 here. We then -- if we're going to look at an incentive  
14 mechanism what is it trying solve. As Richard noted and --  
15 and folks that are familiar with the low-income proceeding,  
16 there is no agreement amongst Staff, amongst the parties,  
17 amongst anyone as to what is affordability.

18                           So if we're being suggested to reward  
19 utilities for providing affordable electricity, you don't  
20 know what that means. And so you need to figure that out  
21 before you start figuring out what the appropriate level of  
22 incentive is or what the appropriate incentive is. And I  
23 think we're a few steps down the road before we get there.

24                           In terms of DER penetration, I mean,  
25 certainly Richard has raised some -- some very valid  
questions. We think it is very important that DER be

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2 available to all parties, not just to certain segments of the  
3 populous. And so we certainly support the idea of DER  
4 penetration going up in low-income communities.

5                       How you measure that and how you reward the  
6 utilities -- I mean, the whole purpose of REV is to open up  
7 markets and not to have the utilities do things but to have  
8 third parties do it. So there has to be work by all  
9 involved. Does it make sense to reward utilities for actions  
10 of third parties. We find that to be very tenuous at best.

11                      And then how do you measure that penetration.  
12 I agree with what Richard said. It also has to provide a  
13 benefit, what is the value proposition. To have providers  
14 come into a low-income community and offer products or  
15 services that will actually raise their rates is not  
16 something that we're looking for. There are lots of  
17 providers out there that can offer benefits and that's what  
18 we want to see. That's what could be rewarded provided  
19 there's some direct utility action that allows that to occur.

20                      And the only other thing I would note is I  
21 think we need to decide the core issues first. The low-  
22 income proceeding, there's been comments submitted, there's  
23 been conferences and meetings on that. We have the ESCO  
24 affordability issue. All of those issues should be coming  
25 before this issue.

                    And I would close by just echoing something



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2           that Marc said, which for the City is an incredibly important  
3           issue and that's customer privacy. Who these low-income  
4           customers are, they are entitled under state and federal law  
5           to certain privacy protections. And when you start saying  
6           we're going to single folks out, you then need to start  
7           identifying folks.

8                           And we, in the other proceedings, have been  
9           very clear that those records are confidential records. And  
10          that is not public information. It should not be public  
11          information. So that is going to create additional  
12          challenges of how you're going to measure these incentives  
13          because we're still struggling in the ESCO proceedings and  
14          the low-income proceedings with that very issue of  
15          identification.

16                           We want to serve these customers. The  
17          utilities, kudos to them, they actually have stepped up to  
18          help low-income customers. But we have to grapple those  
19          threshold issue -- threshold issues first.

20                           Thanks.

21                           MS. SCHERER: Valerie?

22                           MS. STRAUSS: Thank you. I also want to  
23          thank everyone for allowing us to participate in this -- in  
24          this panel today.

25                           AEA is a mission-driven non-profit  
                organization that provides a full range of building energy

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2 efficiency services including workforce training. And the  
3 comments today are my comments, AEA's comments, but I do want  
4 to point out that AEA works as part of a coalition, The  
5 Energy Efficiency for All coalition, which is a nationwide  
6 effort to increase energy efficiency in multi-family  
7 affordable buildings.

8                         And so the comments that I'm going to express  
9 today also, in general, reflect the -- the perspectives of  
10 the EEFA coalition and which has also submitted comments for  
11 the record. EEFA includes AEA, Center for Working Families,  
12 Enterprise Community Partners, Green Healthy Homes  
13 Initiative, PACE, and we act for Environmental Justice.

14                         I think what we've all discovered from our  
15 conversation today and yesterday is that developing EIMs is  
16 difficult. And it's especially difficult for, I think -- for  
17 this particular one. I agree and have as one of my first  
18 points to say that we're talking about how we impact low-  
19 income customers, but we don't really know what we mean by  
20 low income. It was -- it's the subject of much debate and it  
differs depending on what programs we're discussing.

21                         I would offer the perspective that we do  
22 support EIMs. We support an EIM for affordability and for  
23 DER penetration, but if we're going to define low income by  
24 only those parties that are participants in discount programs  
25 under the utilities for the low income-customers, I think

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2           that's insufficient. We've seen in the low-income proceeding  
3           that, in fact, those programs leave out a lot of low-income  
4           customers. And when you look at the State Energy Plan and  
5           other documents, the number of low-income households is much  
6           higher.

7                         So we do need to devote some attention to  
8           those threshold issues of what is affordability and what is a  
9           low-income household, low-income customer.

10                        I would also like to stress -- I think I take  
11           a little -- a different approach, not so much on the bill and  
12           the rate impact, but looking at where low-income households  
13           reside. So taking more of a whole building perspective and  
14           many low-income households, I would say probably a majority  
15           live in multi-family buildings.

16                        And the point there, as I think Richard  
17           pointed out, is it's overall building expenses, it's -- it's  
18           the rent payment and the utility payment. Often utility  
19           payment is folded into rent or at least part of it is. You  
20           may pay electricity, but your heating is part of your rent.

21                        So considering the building stock that these  
22           households live in is critically important and increasing the  
23           energy efficiency and -- and also facilitating some  
24           distributed generation and building energy management systems  
25           is vital.

                          So I think I also want to point out something

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2 that hasn't been mentioned, which is statewide approaches are  
3 useful and important and is a baseline, but New York is a  
4 very diverse state. And I think it's -- I think in many of  
5 these EIMs and, in particular, this one, there is going to  
6 have to be consideration of each utility territory's own  
7 distinct circumstances, its own distribution system and, in  
8 this case, the building stock that serves the low-income  
9 customers.

10                       We've recommended a score card for the  
11 deployment of energy efficiency measures and perhaps DER more  
12 generally in the multi-family housing sector as -- as one  
13 instrument of looking at this issue.

14                       We've also suggested a score card metric for  
15 tracking installation of DER in environmental justice areas,  
16 which are, in fact, you know, defined areas. I also think,  
17 sort of, following on -- on Kevin's point, metrics should use  
18 participation in programs and bill savings or bill  
19 stabilization. They should not be based on utility  
20 expenditures, per se. That -- that is not sufficient. What  
21 we're looking for is -- is real benefits coming out of this.

22                       And I think with REV, REV's goal is to  
23 facilitate markets. And my understanding of EIMs is that  
24 they should be used to help in that process. Reward  
25 utilities for creating opportunities within the REV  
construct. So I want to just suggest one example of where it

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2 could be help -- examples that could be helpful. I've also  
3 had discussion of advance metering.

4                       And we could envision what would be a good  
5 opportunity for utilities and to assist multi-family  
6 buildings and their residents is to provide advanced metering  
7 functionality up to and into the building itself. It doesn't  
8 mean you need to put in an advanced meter in every unit. But  
9 by providing that -- that functionality and also working with  
10 communities to ensure that there's access to whole building  
11 data, you might provide an opportunity for third party  
12 providers to come in and work with those building owners and  
13 managers to then facilitate management services within the  
14 buildings themselves.

15                       So that -- that would be an example, we  
16 think, that we would be very helpful.

17                       I think the other -- a couple issues on -- on  
18 ratemaking I'd like to -- to also discuss, the white paper,  
19 it's related. The white paper raised issues of fixed charges  
20 and demand charges. And I don't think we can look at EIMs  
21 for affordability in a vacuum. I think we look at it in the  
22 context of the larger approach to -- to ratemaking that was  
23 raised in the Track Two white paper.

24                       And we are opposed to increased fixed  
25 charges. We think they are not only regressive and very,  
very problematic for lower-income households, but they're

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2 also really antithetical to what REV is trying to accomplish  
3 because they provide a disincentive to investments in energy  
4 efficiency and distributed generation.

5           And demand charges are also potentially a  
6 problem when communities do not have the ability to manage  
7 their energy use. We support advanced metering functionality  
8 and we support time variant pricing once there is access to  
9 interval data, near real-time, and easily shared, and think  
10 that that can be a helpful tool in the longer term for both  
11 system efficiency and for increasing affordability.

12           MS. SCHERER: Thank you.

13           Janine?

14           MS. MIGDEN-OSTRANDER: Good morning. I'd  
15 like to thank the Commission, also, for inviting me to come  
16 and speak. It's always a pleasure to come back to my home  
17 state and spend a little time here.

18           I'm going to be going in a slightly different  
19 direction. I'm going to start off by focusing on what I  
20 perceive is to be some of the problems, why earnings  
21 incentive mechanism measurements are important, and then talk  
22 about some of the programs and other things.

23           So the question has been raised about whether  
24 or not there should be an earnings impact mechanism. And I'm  
25 going to take the position that I think there should be. And  
part of the reason for that is that the low-income community

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2 is a very large community. They pay approximately 5 to 10  
3 percent of their income for energy, which is a huge energy  
4 burden compared with the rest of the residential population,  
5 which pays about 1 to 5 percent.

6                       And so if you don't -- when you're -- when  
7 you're establishing what areas or what issues are you going  
8 to create earnings impact mechanisms, if you don't include  
9 low-income issues and affordability, it's saying that that  
10 isn't a top tier issue. And this is a top tier issue and so  
11 I think it should be included.

12                      And the key question is going to be how --  
13 what kind of metrics do you put together. And I will address  
14 that in a moment, as well. I spent the last couple of days  
15 reading the Staff report and trying to get up to speed on  
16 what's going on in New York. And I think one of the things  
17 that really struck me was the lack of uniformity around the  
18 state in terms of policies for extended payment plans and  
19 other kinds of re-connection fees, disconnections,  
20 availability of assistance, and so an act of geography means  
21 that one customer will have more services and opportunities  
22 available to help them than others.

23                      And so I -- my first recommendation would be  
24 to create a statewide minimum threshold that all utilities  
25 must meet and of course utilities are always welcome to go  
well above and beyond. And we have that in place -- I've

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2 seen that in place in a number of other states.

3           So some of the issues that I do want to focus  
4 on is there's -- there seems to be a lot of question about,  
5 you know, funds available to customers and how big is the pot  
6 and how do you divide it and how do you determine  
7 eligibility.

8           A lot of the eligibility for low-income  
9 customers for -- and I'm going to talk about Ohio because I  
10 was the Ohio consumers counsel for eight years and I know  
11 that example very well, and there are lot of examples that  
12 are similar to Ohio that could be used, as well.

13           We used the eligibility for -- for LIHEAP and  
14 HWAP worked very closely with the community action agencies  
15 to sign up customers. So when a customer comes in to a local  
16 community action agency for food stamps, they're also made  
17 aware of what's available on the energy side. So that might  
18 be one way to try to capture the low-income customers, one  
19 way to kind of address the privacy issues because they're  
20 there, they're in the door anyway.

21           And the utilities pay a small fee to the  
22 community action agencies to help them administer the HEAP  
23 payments, the HWAP payments. And what we do with energy  
24 efficiency is with our energy efficiency programs, we have  
25 settlements with utility companies to allocate one-third of  
the residential pot to low-income customers to enhance and



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2 build upon the existing weatherization to get services into  
3 the homes.

4                       And this can also -- and that doesn't mean  
5 that because you're getting -- your low-income customer  
6 getting assistance through this program, which again also is  
7 administered through the same agencies that are doing the  
8 HWAP. So it's sort of a one-stop shopping.

9                       You -- if the utility has a CFL light bulb  
10 program, any customer can get that including low-income. So  
11 low-income has access to all programs plus one-third  
12 dedicated for that.

13                      In terms of things like how do you -- how do  
14 you help low-income customers -- and I noted this in the  
15 comments of some of the folks that filed. They made  
16 reference to Ohio's percentage of income payment plan. And  
17 under that plan customers pay 6 percent of their income for  
18 their electric bill, 6 percent of their income towards their  
19 gas heating bill. If they don't have gas heating and they're  
20 all electric, they pay 10 percent.

21                      And the remainder is put into an account that  
22 they have to eventually pay back. But we have a very -- a  
23 very good debt forgiveness program in place that goes along  
24 with it. The rest -- the lost -- the parts of the payments  
25 of the customers that the utility does not recover from the  
customers gets put into a surcharge. It's a separate PIPP

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2 rider, separate from the uncollectible accounts and gets  
3 reconciled every month and is on customers' bills.

4                   I can tell you it's sizeable amount, but it's  
5 keeping a lot of people connected and helping a lot of people  
6 have affordable service.

7                   Another observation I wanted to make, which  
8 is also something that could help low-income customers, is  
9 the authorized agent issue. A lot of low-income -- in a lot  
10 of communities, utilities have shut their offices and there  
11 are authorized agents, but you have to pay to use an  
12 authorized agent. So think about this. You -- in your home,  
13 you -- you do an automatic bank transfer, you write a check,  
14 you pay by a credit card.

15                   But somebody who doesn't have a bank account,  
16 doesn't have a credit card, they have to take -- maybe take a  
17 bus across town if there isn't an authorized agent nearby or  
18 if they're lucky maybe there's one in their neighborhood and  
19 then they have to pay 5 dollars -- 8 dollars, whatever the  
20 fee is, in order to pay their bill. This is for people who -  
21 - for whom their energy bills already represent 5 to 10  
22 percent of their disposable income.

23                   So one -- one policy to consider is waiver of  
24 that fee and for the utility to pay the authorized agents.  
25 And at any -- in any event, authorized agents benefit from  
having the service because if you go into their store to pay

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2 a bill, you're probably going to pick up your -- you're  
3 probably going to buy your milk there while you're there  
4 anyway. So they -- they get extra business.

5                         And it's these kinds of things that really  
6 impact affordability. So what are some of the things that  
7 can be -- yeah, there was one other thing I wanted to talk  
8 about, extended payment plans -- creating a uniform statewide  
9 minimum extended payment plan.

10                        What we have in Ohio is that customers have  
11 to pay if they're in trouble, they can't pay their bill, they  
12 have to pay their -- they call the utility -- our office used  
13 to have a call center that would help them. They could pay  
14 their current bill plus one-sixth of the arrear and avoid  
15 disconnection, and you could negotiate with the utility 9  
16 months. And we did that a lot.

17                        If, you know, the customer said I can't make  
18 that one-sixth but I could make -- make it in 9 payments then  
19 -- and the utilities, rather than lose the customer and lose  
20 the revenues and disconnect, were usually pretty good at  
21 working with our office in terms of allowing customers more  
22 generous extended payment plans.

23                        But that's the way you're going to avoid  
24 disconnections and that's the way you're going to help  
25 customers continue to have service.

                          So what are some of the things to measure?

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2 If you're going to do some kind of a measurement and have  
3 some sort of earnings impact measurement -- and again, it  
4 could be a modest one. I mean, because the points being made  
5 about how money should be focused on helping the customers is  
6 a very valid one. But take -- create a baseline and then  
7 look at such things as number of disconnections. Are they  
8 going up or are they going down?

9 I don't know if, in New York, you require  
10 utilities to provide data to the Commission on how many  
11 customers are 30, 60, or 90 days in arrearage, but measure  
12 that. Are those numbers going down?

13 Number of customers who the utility has  
14 negotiated with to put them on extended payment plans, as  
15 opposed to being disconnected. Are they being -- you know,  
16 are they being more agile about that and increasing the  
17 numbers? Number of days to address consumer complaints, what  
18 is -- what is the timeframe? You know, that's a big issue  
19 for customers, especially when disconnection is looming above  
20 them.

21 The number of authorized agents and where  
22 they're located, are they located in the communities where  
23 the low-income customers reside so that they can have easy  
24 access to them?

25 Incentives for removing the fees for paying  
an authorized agent. Progress on low-income assistance

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2 programs, how they are making those programs available, how  
3 they're educating, what is their outreach, how many more  
4 customers do they have on these programs.

5           A number of low-income customers targeted for  
6 energy efficiency programs. What are they doing within their  
7 energy efficiency budgets to specifically reach out to the  
8 low-income community and help them and working with community  
9 action agencies to leverage weatherization dollars so you get  
10 a much bigger bang for your buck and you can do more -- much  
11 more holistic assistance.

12           And then the number of low-income customers  
13 that are targeted for distributed generation. Community  
14 solar projects that are being helped through any number of  
15 these other kinds of projects that are starting out in New  
16 York. How much is being focused on the low-income? What do  
17 we -- what resources are you making available?

18           So those are some of the measures that you  
19 could use to determine whether or not a utility is entitled  
20 to some kind of incentive. And the incentive mechanism can  
21 be set in accordance with what's reasonable.

22           Thank you.

23           MR. LANG: I just feel a need to respond to a  
24 couple of things that were just said. LIHEAP may work in  
25 Ohio; it does not work in New York City. The vast majority  
of low-income customers in New York City do not get HEAP.

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2 And if we were going to rely on HEAP, we are going to miss  
3 the vast majority of low-income customers in New York City.

4 So what works in other states may not work  
5 here in New York. And we have a -- a very big record on that  
6 issue in the low-income proceeding and we would strongly urge  
7 against just focusing on the HEAP payments to measure low-  
8 income.

9 Also I know this is the case downstate, I'll  
10 defer to the gentleman to my left, but there are authorized  
11 agents throughout New York City, none of which charge a fee.

12 There are other types of providers that also  
13 collect payments that may, but when Con Edison closed its  
14 service centers a number of years ago that was a condition  
15 imposed by the Commission. And to my knowledge, they are  
16 still continuing with dozens, if not hundreds of authorized  
17 agents that charge no fee for payment of bills. So we have  
18 that issue and --.

19 MS. SCHERER: So Kevin, can I just ask a  
20 question? So in that case, the utility is paying the fee?

21 MR. LANG: They've negotiated it with these  
22 various providers is my understanding, but customers can go  
23 in and just pay their bills. There's stores, there's other  
24 places --.

25 MS. SCHERER: I think that differs from other  
areas of the state.

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2                   MR. LANG: And the other thing I just wanted  
3 to note is on some of the measures that were just mentioned,  
4 they are already part of customer service performance  
5 mechanisms. And right now, they work in the opposite  
6 direction because we want utilities to maintain certain  
7 levels of service to these customers. And I'm not aware of  
8 any reason why we're going to take measures that have been in  
9 place for years and years and years that have worked very  
10 well, and turn them from the way they're structured today to  
11 now positive incentive -- positive incentives. There's  
12 nothing that establishes we need to do that for many of those  
13 measures.

14                   MS. MIGDEN-OSTRANDER: If I could respond?

15                   MS. SCHERER: Go --.

16                   MS. MIGDEN-OSTRANDER: Okay. On the LIHEAP,  
17 that probably would work in rural areas, more upstate New  
18 York parts of the state. And that was not a mutually  
19 exclusive suggestion. That was just a suggestion of  
20 something that has worked in some places.

21                   Obviously, where you have large multi-family  
22 housing, there are other things that you can -- can use. If  
23 there are community action agencies or places where they're  
24 going to get food stamps, for example, that would be one way  
25 to help locate that -- that community.

                  So as -- and as to the authorized agents,

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2           that's great. So that should be -- that should be the bar  
3           that should be set for the rest of the state so that you do  
4           have -- so customers aren't paying those fees. So I thank  
5           you for that information. That's really good.

6                         And then customer service mechanisms, I think  
7           this -- this is a list of potential mechanisms if you have  
8           some of them in place. But if you set a baseline and you say  
9           if you perform above and beyond this and you try to raise the  
10          bar, that's the whole idea of an -- of an incentive mechanism  
11          is to try to raise the bar above. And if it's working fine,  
12          then -- then maybe that's not the right measurements. These  
13          are just suggestions that are not -- you know, that are to be  
14          considered based upon the facts.

15                        MR. LANG: But you also have to look at cost  
16          effectiveness. And, you know, if you set thresholds and say  
17          to the utilities now go out and exceed them, there is a cost  
18          to that. And right now, it has not been demonstrated for a  
19          lot of those that the benefits will exceed the cost of  
20          exceeding the thresholds that are already in place.

21                        MS. SCHERER: Anybody else want to respond?

22                        MS. MIGDEN-OSTRANDER: It's a fair point to -  
23          - to measure, for sure.

24                        MR. ZSCHOKKE: Certainly, in -- in  
25          Massachusetts in particular, we have a number of different  
aid programs for which people are eligible for the low-income



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2 rate and low-income programs. But we also recognize you  
3 won't get everybody. Not everybody is in an aid program and  
4 it is an issue that if you try to target low-income, it will  
5 always be tough because how do you identify them and -- and -  
6 - and what you say to them when they're not in an aid program  
7 because you do have to -- you do have to respect their  
8 privacy. So getting them to come forward is obviously very  
9 difficult.

10                       I would -- I would say there's a couple of  
11 things that -- what Janine and Kevin were discussing comes to  
12 my mind. I think one of the things is what is the  
13 flexibility that utilities have to actually innovate and  
14 change. I mean, there are rules, regulations, and laws about  
15 what we can do with customers when it comes to an issue of  
16 credit mechanisms, having an issue paying their bill. And  
17 there are things -- procedures we have to follow. And the  
18 question is what level of innovation could we use to see if  
19 we can improve customers' capability.

20                       Valerie mentioned advanced metering  
21 functionality, which I have always believed -- I've actually  
22 had conversations with low-income people when we talked about  
23 a smart grid pilot in Worcester. You know, low-income  
24 customers have a disadvantage. They -- they go -- move into  
25 a place they're unfamiliar with, they're very transient, and  
then a month later they get a bill from the electric company

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2 and they didn't realize it was going to be so expensive,  
3 right, because they don't have any idea what's going on.

4                       If you're talking about -- I'm glad Valerie  
5 mentioned it, but I've always thought that that would be a  
6 value to the metering data to have customers aware of how  
7 much they're spending in real time, instead of getting a bill  
8 they can't afford after the fact. Because they're unfamiliar  
9 with the apartment, they're unfamiliar what are the cost are.

10                      So I think that's important. That type of  
11 ability to innovate by giving customers more information  
12 would be -- would be important in this area. Now it doesn't  
13 necessarily have to be advanced metering functionality. We  
14 could discuss -- and I'm not here advocating it, so please  
15 don't. I know there's passions on both sides so please  
16 don't. This is not about this issue. It's about  
17 affordability. You know, it's about innovation.

18                      But pre-paid metering, which I remember  
19 talking to one of the British distribution companies back in  
20 the early aughts. And they -- when they had an issue with  
21 the credit customer, they put them on pre-paid metering. And  
22 then after a few years they had 400,000 thousand customers on  
23 the pre-paid metering and their cash flows were positive, not  
24 negative. So they were getting the money before they were  
25 spending it.

                    So I'm not saying we should do it wholesale

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2 but, you know, that would be something that a utility could  
3 try. Because I am concerned about things like pre-paid  
4 metering, how do you get through a winter in Buffalo when  
5 you're doing pre-paid metering. You do not want people to go  
6 without electricity and to -- to put themselves at risk. And  
7 we need to really monitor it, but we could try it and see if  
8 it works and if we can make it comfortable for the advocates  
9 or not.

10                           That's the thing we have to think about.  
11 What are the levers? We're going to have an EIM, what are  
12 the levers you're going to use to help customers improve  
13 their capability of paying the bill and then improve the  
14 ability of the utility to serve them, going forward. So  
15 they're -- the bill is affordable for them and the utility  
16 can take care of the problem for the customers as necessary.

17                           I do want to mention as we talk about  
18 affordability, we also have to think about the other  
19 elements. REV and a lot of the public policy that's coming  
20 forward in the state is bringing new value equations for  
21 customers. You know, we want to have cleaner energy. We  
22 want to have cleaner resources. That's a different value  
23 stream than we have traditionally thought of, which is, you  
24 know, low cost to customers, which we still want, but it may  
25 be more expensive to provide clean energy to customers than  
it is to provide the traditional sources of -- of energy.

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2                           And we do have to be considerate that when we  
3 talk about these EIMs that the impact of policies on  
4 customers' bills will -- possibly could result in a  
5 contradictory effect than what we're trying to do with an EIM  
6 that's targeting -- that's targeting shut-offs or targeting  
7 the amount of bad debt. Because if the bills go up because  
8 we're paying to fund something that we think is necessary for  
9 the state and is good for the state because it's a new value  
10 stream for clean energy, then we have to recognize that  
11 that's going to have an impact on this. Any EIM we create to  
12 do this is going to have an impact on customers.

13                           MS. SCHERER: Go ahead.

14                           MS. STRAUSS: I just want to add one or two  
15 thoughts to that.

16                           I think we do need to be cognizant of the  
17 fact that -- that changes under REV will impact bills.  
18 Obviously, the goal is to stabilize -- stabilize bills. And  
19 I am saying bills quite deliberately not rates because I  
20 think there is a difference. And we like to focus on bills,  
21 not rates.

22                           But I'd also like to suggest that, in talking  
23 about managing cost of housing and utilities together, that I  
24 realize in parts of New York, particularly rural upstate  
25 areas, low-income households may live in single-family homes,  
they may own their home, but a vast majority of lower-income

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2 customers do live in -- in urban areas and in multi-family  
3 housing and, on average, energy expenses in multi-family  
4 housings are about -- average about 30 percent of operating  
5 expenses, which is a pretty hefty chunk of change,  
6 particularly if you're a building owner or property manager  
7 that has a number of large properties.

8                           And in places like New York City, which --  
9 where there is rent stabilization, you find landlords or  
10 building managers coming in and arguing for rent increases  
11 because their utility bills have gone up. So I think having  
12 a whole building energy efficiency approach can help offset  
13 some of the -- the issues, potentially increased bills and  
14 also address the issue of affordability.

15                           MS. SCHERER: Valerie, can you expand on the  
16 score card concept that you mentioned and can it be adapted  
17 to single-family homes?

18                           MS. STRAUSS: Sure. I think it can, to some  
19 extent. We -- we did suggest in our comments, the EEFA  
20 comments, that there be a score card for multi-family  
21 building sector. Obviously, that's more appropriate in  
22 certain places than others.

23                           I think we also suggested a score card for  
24 environmental justice areas. And that, in many regions of  
25 the state, includes areas with large numbers of single-family  
homes and -- and it includes, you know, Indian reservations,

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2 et cetera.

3 So I think looking at environmental justice  
4 area or census tract type of an approach like Richard  
5 mentioned might be one way of addressing that.

6 MS. SCHERER: We talked a little bit about  
7 the incentive mechanism related to terminations and  
8 uncollectible. A number of parties commented that there  
9 would need to be a -- there may need to be a mechanism for  
10 normalizing economic indicators. Do anybody have thoughts --  
11 does anybody have thoughts on that?

12 MR. ZSCHOKKE: Well, the economy does affect  
13 the number of customers that are in a bad situation. And so  
14 -- so how you would do that, I don't know, but I'm sure  
15 people could come up with ways to do that. But there will  
16 still be statistical variance around that that will make  
17 things less accurate than if you can just count numbers.

18 So if you did have one, yes, you would need  
19 to take -- you know, one of our concerns is all of the  
20 external influences to affordability of customers, you know,  
21 it's not just the overall health of the economy, but it's  
22 also how much is the southern part of the country taking away  
23 in manufacturing from Upstate New York or -- or China is  
24 taking away. I mean it's more than simply is the economy  
25 healthy of the state. It's the economy of the regions of the  
state -- the state as well. So -- and that's going to be a

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2 tough one to really figure out.

3 MR. LANG: I would just add, I mean, I  
4 certainly agree with Peter that how you would do that I don't  
5 have a clue. It's another example of why an earnings  
6 incentive mechanism here is even more problematic because  
7 there is the potential to significantly over-reward the  
8 utility, or conversely, potentially if we're going to go down  
9 an incentive route, while we don't agree with it, you could  
10 be under-rewarding them too because of changes in the  
11 economy.

12 Again, we believe that these mechanisms  
13 should be geared specifically and solely to actions taken by  
14 the utilities, not all of these extraneous influences that  
15 are equally as important.

16 I mean, I would just echo what Valerie was  
17 saying is this is probably an area that is more right for  
18 score cards than incentive mechanisms, that you can start to  
19 measure some of these things. Janine had a list. There's  
20 absolutely things on that list that make a lot of sense. But  
21 to me, they make a lot more sense, at least for now with all  
22 the uncertainty that's out there, that they're score card  
23 items. Let's start monitoring them. Let's start tracking  
24 them. Let's see how performance is changing over time.

25 And then if we identify a problem or we  
identify an opportunity to maybe create incentives, do it

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2 based on the factual record as opposed to assumptions and  
3 guesstimates.

4                       MS. SCHERER: Anybody else?

5                       MR. ZSCHOKKE: I think the utilities would  
6 agree with the score card. I mean, when you think about  
7 innovation, you -- you track the information that you think  
8 is interesting and then you see -- you encourage the  
9 utilities to put forward, you know, innovative proposals like  
10 try out pre-paid metering, knowing all the concerns people  
11 have, to see if you can overcome those concerns or try out  
12 advanced metering functionality and how you can do budgeting  
13 for low-income customers.

14                      And, you know, don't do it to everybody, do  
15 it to some, and see how it works. And then -- then you put  
16 something in to say, okay, make it work more effectively now  
17 that you know what the cost to do those things are and you  
18 know what the benefits are. And then you can create  
19 innovation for which you may then want to move from the score  
20 card to an EIM.

21                      But still, you know, you'd have information  
22 from which to move forward. And you'd create an -- an  
23 environment in which innovation in this area would be  
24 welcome.

25                      MS. SCHERER: Anybody else on the panel?

                    Should we turn over questions to folks on the



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2 phone?

3 Does anybody on the phone have questions for  
4 the panel?

5 How about anybody in the audience? Questions  
6 for the panel?

7 MR. LEONARD: Pardon me if I'm a little bit  
8 feisty this early in the morning, but --.

9 UNIDENTIFIED SPEAKER: Can you state your  
10 name, please?

11 MR. LEONARD: Ron Leonard.

12 So two things I want to -- to bring out,  
13 which you've sort of discussed a little bit. One is  
14 perception and one is big data. And to -- to try to make it  
15 a little bit light in terms of perception, I'd like to  
16 discuss a fictitious utility called Eddie's Utility and a  
17 fictitious C.E.O. called Crazy Eddie. And Crazy Eddie makes  
18 probably 5 million, 6 million dollars a year, you know,  
19 normal big buck C.E.O. salary.

20 And then you look at perception-wise how much  
21 that Eddie's Utility spends on monthly, say, subsidizing poor  
22 people. It doesn't look very good when you look at things  
23 that way.

24 Secondly, looking at proceedings that  
25 Central Hudson had in their area with the PSC and cut-offs  
and a lot of egregious complaints were put against Central

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2 Hudson's proceedings. And I don't think we should focus in  
3 on Central Hudson as a bad example or player, but in general  
4 the perception is that utilities really are not handling this  
5 process well and that consumers are not really being  
6 protected in a way that is fair in the marketplace.

7           So the second part of this discussion that  
8 I'd like to see happen is how does big data play into this.  
9 And you brought up smart meters, but I don't really think we  
10 have time for smart meters. It's just way too far down the  
11 road to look at as a solution.

12           But big data is a solution today. My friend  
13 Frank over here can tell you about a company that will be  
14 able to take a look at a building and, having the electric  
15 bills, find out if that building is doing the right thing.

16           So for example, if you look at New York City,  
17 New York City has lidar data of every single building in the  
18 city. You can talk -- look at a multi-family building,  
19 figure out what the utility bills are, both gas and electric,  
20 and figure out if that building is making sense.

21           And, you know, I grew up in New York City.  
22 I've walked into these apartment buildings and seen the  
23 window open and you say, it's the middle of winter, it's  
24 minus 10 degrees out, why is the window open? Because we  
25 can't turn the heat down. That is an unfair process.

          So in terms of the big data picture, we can

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2 really ameliorate some of the problems that we have right  
3 now, almost immediately. When you have a poor family,  
4 elderly family, upstate New York, who can't afford to heat  
5 their building because they have single pane windows on it.  
6 And it's leaking heat like a sieve. If you have a multi-  
7 family housing that's using a ton of electricity because they  
8 have old Edison light bulbs in there, this is something we  
9 can fix now.

10                           And we don't have to worry about how can we  
11 identify poor people. We can identify poor people when we  
12 find out their electricity is being cut off. Start there.  
13 Have a baseline. Fix problems. Let's be proactive in this  
14 process, rather than just discussing logistics and possible  
15 means of forcing utilities to act in a little bit more of a  
16 preemptive way.

17                           MS. SCHERER: Thank you.

18                           MR. FLINT: Good morning. Adam Flint, New  
19 York Energy Democracy Alliance.

20                           I'm glad I came after you because that --  
21 maybe I'll be nicer, but maybe I won't be. I think -- I hope  
22 one thing we can agree on is that the current system is  
23 completely inadequate. We had a quarter of a million  
24 shutoffs last year. Not acceptable. Okay. So that to me is  
25 the baseline.

                          I also agree in what the last gentleman said

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2 in terms of the timescale. I think there are things that REV  
3 can do at different stages, but there are things that need to  
4 be done now and I think some of those things, we know what  
5 they are.

6                       I would also agree, though, that it's not  
7 fair for anybody, much less the utilities, to be penalized or  
8 rewarded, and I do mean penalized because in some of the  
9 discussions yesterday we talked about symmetry in EIMs and I  
10 think there needs to be both teeth and reward, whether it's  
11 an EIM or not in terms of this question.

12                      For utilities or anyone to be held  
13 responsible for things that they simply can't control, I  
14 mean, that seems sort of unfair. But utilities do have a  
15 large responsibility and they do have things that they can't  
16 do.

17                      One part that seems not sufficiently  
18 emphasized yesterday and today inasmuch as it's been  
19 discussed or is a topic for today is the role of maybe going  
20 a bit further with what was said by Valerie and -- I'm sorry,  
21 I've forgotten your name.

22                      MS. MIGDEN-OSTRANDER: Janine.

23                      MR. FLINT: Yeah. I think, from my own  
24 experience working upstate on Green Jobs Green New York, now  
25 on solar moving into shared solar, you are going to have to  
have a very robust energy education boots-on-the-ground

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2 operation, A. You are going to want to partner with obvious  
3 and relevant agencies, B. And three, someone's going to have  
4 to pay for all this. And it can't be the low-income  
5 customers. You can't just roll it into the rate. That's --  
6 that's not probably a good idea.

7                       Where we get the money, how we do that,  
8 there's different discussions about where that can come from.

9                       So just one concrete suggestion I would make  
10 is that there is REV demonstration projects going on right  
11 now. There's a lot of excitement about shared solar in  
12 general and as a solution to low-income equity and access to  
13 DER right now. Yet, upstate where incentives are entirely  
14 too low for large arrays already and the market's pretty well  
15 dead, it's not a place that private developers have much of  
16 an incentive to go. And we've heard this directly from them.

17                      So what I would strongly suggest is not just  
18 the utilities, but the parties at the table as regards this,  
19 NYSERDA, yes, the utilities, the Commission, and those of us  
20 who are in the field doing this work, private developers,  
21 non-profit organizations, have some demo projects set up this  
22 year, early.

23                      That means there's going to need to be some  
24 operating capital and it means that NYSERDA's going to need  
25 to make some good decisions about incentives.

                    So I'll -- I'll leave it at that. And thank

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2 you very much for bringing this into the discussion.

3 MS. SCHERER: Thank you.

4 Does anybody want to respond to that?

5 MS. MIGDEN-OSTRANDER: I guess I want to  
6 understand more. I have a follow-up question to you, which  
7 is --.

8 MR. FLINT: I'll come back.

9 MS. MIGDEN-OSTRANDER: Thank you. Why is it  
10 that the solar market is not thriving or is nearly dead in  
11 Upstate New York?

12 MR. FLINT: I should clarify. It's the above  
13 200kW solar market that is not --

14 MS. MIGDEN-OSTRANDER: Okay.

15 MR. FLINT: -- thriving upstate. And the  
16 reason for that is somewhat complex on one level, but simply  
17 put, the value of solar since the ruling by the Commission  
18 combined with inadequate incentives by NYSERDA over the last  
19 year essentially reduced the value of large solar by 60 to 70  
20 percent over what it was before.

21 To be fair, monetary net metering was a bit  
22 of a game situation. We all get that. But the long story  
23 short is Upstate has not done well since the grandfathered  
24 projects at all. So that's the situation there.

25 MR. ZSCHOKKE: Maybe all the units in our  
queue are prior to whatever the orders are, but we have a

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2 pretty busy queue, from what I understand, for large --  
3 larger projects for Upstate New York.

4                   MR. FLINT: There's a huge backlog of  
5 grandfathered projects.

6                   MR. ZSCHOKKE: Yeah.

7                   MR. FLINT: And in fact, the utilities were  
8 sitting in this room today when they were talking about  
9 interconnection, saying well, don't beat us up too bad about  
10 this horrible backlog because you guys made a decision that  
11 threw the market into a tizzy because everybody was told get  
12 your project in now or not happening, so.

13                   MR. ZSCHOKKE: Right.

14                   MR. FLINT: There is -- I -- I guess, I'll  
15 add another thing. There is a vast and vast and vast and I  
16 think sometimes not fully understood by everybody difference  
17 between upstate and downstate in a lot of ways and within  
18 regions. And I think that's an important thing to consider,  
19 as well.

20                   So when designing whatever comes out of this,  
21 I would go back to your comments and others that it needs to  
22 be sensitive to the situation in the different utility areas,  
23 as well as sensitive to the situations of low-income people  
24 in the different utility areas.

25                   MS. SCHERER: Thank you. Thank you. Anybody  
else?

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2 MR. ZSCHOKKE: So just to be clear, I know we  
3 have a few hundred megawatts this year that, you know, we're  
4 expecting to come online. There may be a future where  
5 nothing's -- nothing is in the queue but there's a lot of  
6 work to be done right now for that, so.

7 MR. FLINT: I should say that NYSEIA's been  
8 pounding the door the last year on this one and they're not  
9 going to go away, so.

10 MS. SCHERER: Anybody else in the audience  
11 have comments?

12 MR. O'BRIAN: Good morning. My name is David  
13 O'Brian with Navigant Consulting.

14 I had to come up and talk a little bit about  
15 pre-pay because Peter mentioned it. I have to tell you I've  
16 read a lot about pre-pay programs. I would strongly  
17 encourage Staff and folks to look at the Salt River Project  
18 has done that a lot with this and been very, very successful.  
19 And they've lowered disconnects and not -- uncollectibles  
20 from low-income populations dramatically.

21 And it's actually for a very simple reason.  
22 And I would counter or have a different opinion about the  
23 value of AMI in this case because it's a classic information  
24 is power sort of circumstance where you're talking about  
25 giving people the information about their energy consumption  
in much more granular detail, 15-minute intervals, instead of



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2 30 days later after, you know, post the month.

3 And so you can imagine an environment where  
4 the customer says this is my budget that I want to spend on  
5 energy for the month. Say, it's 50 dollars, if that's the  
6 number. And then they have the feedback mechanism on a daily  
7 basis of where they stand in terms of how much energy they're  
8 consuming and where their bill is headed before they get to  
9 the end of the month. So they can avoid the very issue that  
10 we're -- we're trying to avoid here on a larger sense.

11 And so I think there's a lot that can be done  
12 with technology and with a more intelligent grid and the sort  
13 of tools that you can imagine as talked about in REV that can  
14 really be brought to bear for this population. Because I  
15 think there's a lot -- lot of positive that can be done.

16 But I think you have to think about these  
17 incentives or earning impact mechanisms, perhaps the score  
18 card as Kevin alluded, but certainly it's a positive only  
19 incentive to really put something out there for the utilities  
20 to create those -- that environment and to offer those tools  
21 to the -- to this population.

22 MR. LANG: Okay. Excuse me, can I just ask  
23 you that --

24 MS. SCHERER: Okay. Go ahead.

25 MR. LANG: -- if this customer with a 50-  
dollar budget, it gets much colder and they exhaust the

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2 budget on the 10th day of the month --

3 MS. SCHERER: That's what I was thinking.

4 MR. LANG: -- what did they do for the other  
5 20 days of the month? Do they just not have electricity?  
6 Because that's just not acceptable.

7 MR. O'BRIAN: No, I'm not suggesting that.  
8 I'm saying that I don't -- I'm not saying this solves the  
9 entire problem and it eradicates, you know, whether it's a  
10 very cold month and they've run up their bill to a certain  
11 point. But it gives them the ability to identify that the  
12 problem exists much sooner and potentially do something about  
13 it, whether that's the utility or some third party engaging  
14 with them sooner, an agency, what have you.

15 But the point is that they can be much more  
16 aware or cognizant of where their usage is going and what  
17 their bill is going to be before they get to the end of the  
18 month before it becomes too late.

19 MR. LANG: I understand. I mean, in concept  
20 maybe it's something that could be looked at, but I see a  
21 whole host of very significant concerns in the state that we  
22 would need to work through before we ever install these pre-  
23 paid meters.

24 MR. ZSCHOKKE: And that's -- that's why I  
25 suggested that we do -- we try something out because we don't  
want customers taking 20 days without electricity in the

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2 middle of January in Buffalo. And so, but -- you know, how  
3 it will work, I mean put some out there and see -- you know,  
4 don't put the customers on the rate, but put some out there  
5 and see what they learn, see what they do, and see, you know,  
6 just innovate to try to figure it out.

7           MS. STRAUSS: I would -- I think there are  
8 all kinds of billing arrangements that could be useful, time  
9 variant pricing being one of them.

10           Pre-pay has a host of concerns, I think, for  
11 low-income advocates. I'm not -- not to say it can't ever be  
12 useful, but as Kevin's alluding to, I would strongly caution  
13 against implementing something along those lines without a  
14 lot of data, real-time information, not simply oh, gee,  
15 you're about to run out of money. And -- and also with a  
16 strong energy efficiency and weatherization program that goes  
17 hand in hand with that because I think we've seen -- as we've  
18 seen in -- in New York City, it's not -- it's comfort and  
19 it's also safety. People have their gas shut off so they --  
20 you know, they have their electricity shut off so they turn  
21 on their gas stove for heat and we have fires.

22           So I think you have to be very careful,  
23 particularly in the intersection between the heating and the  
24 electric usage. There are comfort and safety issues, as  
25 well. Just for example, where you also -- as an aside,  
sometimes you have a weatherization program or a great deal

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2 of energy efficiency work done and you find that usage  
3 doesn't go down. And that's not because it's not much more  
4 efficient. It's because those families that were living in  
5 very cold circumstances and wearing jackets in the house  
6 said, you know what, I can afford to turn my heat up. So I  
7 think we have to be very careful about how we measure and --  
8 and what kind of safety and security we provide to these  
9 families.

10                           MS. MIGDEN-OSTRANDER: And I -- I would add  
11 also I agree with what Valerie and Kevin said. One of the  
12 big concerns with regard -- you know, pre-paid metering  
13 should be -- if it's going to be implemented, it should be  
14 piloted and it should have a host of consumer protections in  
15 it. I think one of the big concerns is if, at the end of 30  
16 days, if you're on -- on a regular metering and you don't  
17 have the money to pay your entire bill, you don't get  
18 disconnected right away. You're given a sort of -- with the  
19 disconnect notices and others, you're given an opportunity to  
20 come up with the money so that you can keep service flowing.

21   Pre-paid meter, the money runs out. You need  
22 to have some sort of mechanism in place that even when the  
23 money runs out of the meter, customers still have the same  
24 disconnect notice windows and opportunities to maintain  
25 service.

  And another issue is also utilities charge a

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2 late payment fee if you're late. Here you're pre-paying, so  
3 should there be a premium on the rate, a discount to  
4 customers because they're pre-paying and the utility has the  
5 use of their cash? So it's creating somewhat of a symmetry  
6 here. You know, if you're going to -- if you're going to  
7 charge late payments, you should charge a pre -- you should  
8 give a credit for a pre-payment.

9           And then there's a whole host of other  
10 issues. It's not to say that they can't be worked through  
11 and tried out on a pilot basis, but we have to be very  
12 careful that we don't have customers in the middle of the  
13 winter or the middle -- or in a hot summer getting sunstroke  
14 because their meter ran out.

15           MR. O'BRIAN: Yeah. So -- so let me be very  
16 clear. I knew I was actually stepping in it when I came up  
17 and -- I do that, you know, knowing, you know, my free will I  
18 guess.

19           So I'm not suggesting, by any means, any of  
20 the sort of very, you know, awful circumstances you're  
21 describing. What I'm suggesting is is that if you think  
22 about what the technology can do and what the structure of a  
23 pre-pay program presents, you're doing something that is  
24 additive or incremental of what we're doing today, which is  
25 really more reactive to the problem than proactive.

          That's really what I'm suggesting. And I

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2 think Peter's observation about doing this on a test basis,  
3 absolutely. I would not make -- I'm not sitting here saying  
4 let's jump to a circumstance or repay -- pre-pays especially  
5 with the reservations that I just heard.

6           But I think putting these customers and more  
7 and more customers into a position of knowledge of where they  
8 stand on their consumption and have the tools to respond,  
9 whether that's, for example, dynamic pricing that they, you  
10 know, have automated devices that, you know, manage some of  
11 their things in their home and save them money. Those all  
12 things are positive and I would -- I would just suggest that  
13 just because it's a low-income population doesn't mean those  
14 things aren't possible.

15           And I would definitely suggest we take a look  
16 at -- there's a lot of studies out there I can point to that  
17 show what a dramatic difference happens when people have that  
18 information in a proactive way, what happens to their energy  
19 efficiency. And that's all I'm suggesting.

20           MS. SCHERER: Can I add one more thing?

21           MS. MIGDEN-OSTRANDER: Can I ask a question,  
22 please?

23           MR. O'BRIAN: Uh-oh, I'm not supposed to be  
24 on the panel, so.

25           MS. SCHERER: We --

          UNIDENTIFIED SPEAKER: It's time to move off

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2 of pre-pay.

3                   MS. SCHERER: -- clearly there's a lot of  
4 concerns, not the least of which is Public Service Law, but  
5 that's for the lawyers to figure out.

6                   But I have a question with regard to the Salt  
7 River project. I'm not sure where it is and I'm just  
8 wondering if you know how they deal with fixed charges. We  
9 have pretty significant fixed charges here and it could be  
10 that a customer who wants to allot 50 dollars uses 40 percent  
11 of their 50 dollars in the first day of the billing cycle.  
12 So how do they deal with that?

13                   MR. O'BRIAN: You know, I don't -- I don't  
14 know what the fixed charges are in that specific program.  
15 Maybe Peter does.

16                   MR. ZSCHOKKE: If I -- if I may? Well, they  
17 have fixed charges for regular service. They now have a  
18 little bit of an issue. Salt River project is in Utah;  
19 right?

20                   MS. SCHERER: That makes sense.

21                   UNIDENTIFIED SPEAKER: Arizona.

22                   MR. ZSCHOKKE: Arizona. Okay.

23                   MR. O'BRIAN: Arizona.

24                   MR. ZSCHOKKE: It's not a muni; it's a  
25 cooperative.

                  MR. O'BRIAN: No; it's actually a government.

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2 UNIDENTIFIED SPEAKER: Supreme Court doesn't  
3 know what it is.

4 MR. ZSCHOKKE: Okay. So it's not an IOU  
5 Let's put it that way.

6 But they -- they had just recently issued an  
7 order that for people who put solar on their roof they have  
8 to pay 50 dollars a month customer charge which I believe  
9 they've been taken to court for -- for such action by some of  
10 the solar vendors.

11 So that's -- they raised the customer charge  
12 for those who have solar and not for those who don't have  
13 solar. I don't know what their regular customer charges are.

14 MR. O'BRIAN: Right. I don't -- I'm not  
15 familiar. I can take a look at it.

16 MS. SCHERER: That's fine. Thank you very  
17 much. We -- only have a couple minutes left, so sir?

18 MR. BERKLEY: One second, LuAnn.

19 MS. SCHERER: Yeah.

20 MR. BERKLEY: I just like to say that while  
21 this conversation has been interesting from an academic  
22 standpoint, it had -- it had nothing to do about  
23 affordability. Smart meters, time-of-use pricing, they cost  
24 money. They don't save money.

25 New York State would roll out 6 -- 7 -- 8  
billion dollars' worth of smart meters, I defy anyone to show



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2 me how that's going to reduce rates. So while it was  
3 interesting to learn these things, not germane to our  
4 discussion today.

5 MS. SCHERER: But yet, AEA raised it in their  
6 comments.

7 MS. STRAUSS: I would also say we think their  
8 advanced metering functionality actually could help bill  
9 management, which they were more interested in overall bills.  
10 So we have a little bit of difference of opinion.

11 MS. SCHERER: Sir?

12 MR. WAGGONER: Danny Waggoner of Advanced  
13 Energy Economy Institute.

14 One really quick point about the smart meter  
15 is such a good report that shows the amount of savings you  
16 can get and demand reduction and how that relates to lowering  
17 CapEx. And the majority of benefits you get from smart  
18 meters are not the operational benefits. It's the benefits  
19 that you get from employing those, those demand reduction  
20 rates. And so I think you have to -- you have to include  
21 that when you're looking at the cost benefits of smart  
22 meters.

23 But the main point I wanted to get to was I  
24 have a -- I got some anecdotal evidence or at least an  
25 anecdote, maybe it's not evidence, of pre-paying for bills.  
My cousin is executive director of an electrical cooperative

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2 in a very low-income area. They really don't have the  
3 ability to have higher income customers pay for the arrears  
4 of the lower-income customers.

5                       So they put in pre-bill pay. And what it  
6 allowed their customers to do is they could much more easily  
7 catch up on their debts. So instead of having 400 dollars in  
8 arrears when your meter is shut off, you have 20. And you  
9 can find 20; you can't find 400 as easily.

10                      And so it allowed them to turn on their  
11 meters much more quickly. And I think that you could have a  
12 system if there is a weather event you can turn the meters  
13 back on and have the bills go negative. That's a good thing  
14 about a smart meter. You can press a button in a control  
15 center and you can turn it back on.

16                      And I don't think that there's any reason why  
17 you couldn't do that if there is a extreme weather event.

18                      MR. BERKELY: To ask one question about the  
19 area where the pre-paid was deployed. I went to the -- the  
20 NERIC conference a couple of months ago. And one of the  
21 presentations was about pre-paid. And one of the presenters  
22 pointed out that folks in the pre-paid who were having  
23 trouble with affordability got to the shut-off point 6 or 7  
24 times in a month, as opposed 1 time a month.

25                      So you're saying that someone might only be  
20 dollars behind instead of 400, but how many times a month

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2           are they have 20 dollars behind and have to find that money?  
3           Because for people who are on a very limited income, you have  
4           to -- and you have to time their bill pays. Getting 6 bills  
5           for the utility in a month is a lot different than getting 1,  
6           irrespective of the affordability underlying the problem.

7                   MR. WAGGONER: It may be different based on  
8           the composition of your customers. If you have only a small  
9           portion that are low-income, then -- then maybe that sharing  
10          is different. But if you're -- they're all low-incomes, then  
11          it doesn't make sense to have other low-incomes -- low-income  
12          customers subsidize other ones. So you know, it could depend  
13          on, you know, what the makeup of your customers are.

14                   MS. MIGDEN-OSTRANDER: There's one comment I  
15          would like to just quickly throw in. Prepaid should be  
16          voluntary. It shouldn't be mandatory on customers who don't  
17          want it and it shouldn't only be targeted to low-income. It  
18          should be targeted to any customer who wants it.

19                   MR. LANG: Yeah, I agree.

20                   MS. SCHERER: Great. Next question?

21                   MS. SEIDLER: Maria Seidler, Dominion  
22          Voltage, Inc.

23                   I just want to point out, because of the  
24          previous question about the cost of AMI and the importance of  
25          big data, one of the advantages of using AMI with voltage  
                optimization is that you can increase the voltage

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2 optimization saving. And there are demonstration projects  
3 that show that voltage optimization initiated on the grid can  
4 bring 3 to 5 percent energy savings that can give you a 4 to  
5 5 payback period on some systems for the AMI

6           So -- and the great thing about initiating  
7 voltage optimization is that it benefits low-income customers  
8 without putting a burden on the low-income customers. I  
9 mean, they don't have to do -- take any kind of behavior.  
10 And for 3 -- if they're getting a 3 to 4 percent energy  
11 savings on their bill, even though that may not be a whole  
12 lot of kilowatt hours, every penny means everything to them.

13           So as we are talking about what's right for  
14 the low-income, there's a lot of things we can do on the grid  
15 side that can benefit those communities. And I do appreciate  
16 that the Staff has added voltage optimization on their  
17 distributed system planning requirements.

18           MS. SCHERER: Great. Thank you.

19           Panelists, thank you all very much.

20           MR. LANG: I'm sorry. Can I just make one  
21 quick observation here that I certainly agree with the folks  
22 who talked about being proactive? This particular panel  
23 wasn't about all the things we can do for low-income  
24 customers, it was about the incentive mechanisms, but I would  
25 very much hope and encourage the Staff to take away from this  
discussion that we should be looking at how we can be

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2 proactive to help these customers. We should be looking at  
3 innovations as Peter and others have said.

4           There are many different things that could go  
5 on, but the focus should be on what we can do to help these  
6 customers and not on incentive mechanisms, at least in this  
7 category.

8           Thank you.

9           MS. SCHERER: Thank you all very much.

10           MR. OLMSTED: Folks, we're going to take a  
11 15-minute break and be back here at 10:30.

12           (Off the record)

13           (The conference resumed.)

14           MR. OLMSTED: So we're just going to jump  
15 right into it again. If -- if you weren't here yesterday and  
16 I didn't get to introduce myself, I'm Peter Olmsted with  
17 Staff, and delighted you could be all be here this morning.

18           I thought the affordability panelist was a  
19 lively one. So looking forward to continuing the  
20 conversation. So without further ado, I would like to turn  
21 it over to Craig Henry with Staff who's going to moderate our  
22 next panel on market-based earnings.

23           All yours, Craig.

24           MR. HENRY: Thank you, Peter.

25           Good morning, everyone. So as you said, my  
name is Craig Henry. I'm a financial analyst who's been with

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2 the Department approximately 27 years.

3 UNIDENTIFIED SPEAKER: Oh, my god.

4 MR. HENRY: So --.

5 UNIDENTIFIED SPEAKER: We should applaud  
6 that.

7 MR. HENRY: I was -- I was asked, slash,  
8 volunteered to -- is this on? I was asked, slash,  
9 volunteered to moderate the discussion on market-based  
10 earnings and I'm

11 actually very happy to do it.

12 The reason we're talking about MBEs is that  
13 they're anticipated to play an important role as the state's  
14 REV initiative seeks to transform the state's future energy  
15 distribution system into one where we will have fully  
16 developed DER markets in which utilities will be able to earn  
17 revenues from market-oriented activities in addition to the  
18 earnings they now earn from traditional cost of service.

19 And we're fortunate to have with us today a  
20 diverse and knowledgeable panel to discuss the topic of  
21 market-based earnings. But before I turn to them to provide  
22 their opening remarks, I've been asked to take about 5 to 10  
23 minutes in order to provide some context on how MBEs are  
24 expected to fit into the broader REV-related transformation.

25 To do that, I'd like to begin by highlighting  
particular assertions in the Staff white paper that have been

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2 the focus of a lot of comments. And I would like to share  
3 some recent developments, as well, that I think offer us some  
4 insight into this issue and are relevant to this discussion.

5                       So you see up on the -- on the slide behind  
6 me, this -- really the critical questions that are going to  
7 be addressed by the panel and in fact, the Staff white paper  
8 asserts that a critical factor in the ratemaking treatment of  
9 new revenue sources, or MBEs, will be the extent to which the  
10 revenues derive from monopoly-like utility functions versus  
11 the extent to which they represent more competitive-type  
12 services, services that could just as easily be provided by  
13 third parties.

14                      So based upon the questions posed in the  
15 Commission's notice for today's technical conference, I'm  
16 sure we -- we all can expect that much of our panelists'  
17 comments today will focus specifically on this very important  
18 issue. And there are a number of other issues as well that I  
19 hope we can dive into.

20                      So now, into some more of the background for  
21 the context. The -- the white paper indicates that a primary  
22 driver of anticipated utility MBEs will be platform service  
23 revenues, also known as PSRs. And it states that the PSRs  
24 are revenues that the utilities will be able to realize by  
25 virtue of their capacity as the distribution system platform  
or DSP providers.





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2 myself, my office and are very interested to learn more about  
3 what we can reasonably expect with respect to the development  
4 of MBEs because of the opportunities and risks posed by the  
5 transformation on our utilities business model have very real  
6 implications in terms of the perceived risk and the  
7 accompanying return expectations of investors.

8                         In other words, what impact will these  
9 changes have on ROE and on the utility's ability to track  
10 capital at reasonable terms. Since the white paper was  
11 issued, all 3 rating agencies S&P, Moody's, and Fitch, have  
12 all taken note of the coming change in the regulatory  
13 construct in New York. By and large, the rating agencies all  
14 acknowledge the inherent uncertainty that comes with such a  
15 change. And just as importantly for our discussion here  
16 today, they also recognize that this change will also provide  
17 significant opportunities for the utilities, as well.

18                         For instance, according to S&P, opportunity  
19 will come from utilities that embrace the change and find  
20 ways to expect greater -- extract greater revenues from a  
21 grid that become -- that could become more valuable as  
22 customers place more value on the network to meet their  
23 needs.

24                         And for its part, Moody's states, we believe  
25 it is credit positive that state regulators are encouraging  
utilities to adopt a business model that can help them stay

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2 ahead of technological changes which are currently and  
3 certainly coming to the utility industry as a whole.

4                       Also, at around the time the Staff white  
5 paper was filed, the utilities filed many demonstration  
6 projects. And there's some lessons to be learned from those.  
7 Many of the commenters have stated that the demonstration  
8 projects that have been filed with the Commission will  
9 provide opportunities to explore the potential benefits and  
10 challenges surrounding MBEs and provide stakeholders in the  
11 Commission with some real-world experience to inform their  
12 design.

13                      These projects were filed with the  
14 Commission, as I mentioned, shortly before the Staff white  
15 paper was filed. And now that several of them have been  
16 approved, I hope that we'll have an opportunity to hear from  
17 some of the panelists a little bit more about the potential  
18 lessons that these projects might offer.

19                      For instance, Con Edison's Building  
20 Efficiency Marketplace demonstration project anticipates  
21 numerous potential new revenue streams, including advertising  
22 fees, fees associated with an energy portal, and engineering  
23 fees. While National Grid's Community Resilience project  
24 projects potential new revenue sources including fees for  
25 providing essential procurement for DER, fees associated with  
the control and operations of the micro grid, and fees for

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2 billing and financial transaction services.

3                       So that's about enough for me. So I think  
4 all of us today are looking forward to the respective  
5 assessments of our panelists. Each of them are very well  
6 placed to provide informed judgment as to the factors that  
7 regulation should consider as the industry transforms.

8                       So our panelists today consist of two  
9 representatives from the utilities. Stu Nachmias from Con  
10 Edison, he'll provide a Downstate perspective, while Peter  
11 Zschokke from National Grid can offer an Upstate perspective.

12                      Additionally, we have Mike Mager representing  
13 Large Consumer Interests, Anne Reynolds representing a Clean  
14 Energy perspective. And Rick Umoff, the DER perspective on  
15 this area.

16                      So at this point, I'd like to -- this is sort  
17 of how I see this going based upon how many of the other  
18 sessions have gone. I'd like to give each of the panelists  
19 about 5 minutes or so to provide their -- their introductory  
20 remarks. The Staff team has assembled a number of questions  
21 that we would also like to pose the panelists.

22                      Then we'd like to turn it over to the  
23 audience for some questions and then finally, give our  
24 panelist an opportunity to make some closing remarks.

25                      So I anticipate that each of the panelists is  
ready with their remarks and I'm also assuming we can start

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2 with the utilities and then sort of go along the same line as  
3 I introduced you folks.

4                       So take it away.

5                       MR. NACHMIAS: Thank you. It's on; right?

6                       So thanks to Staff and Craig for your  
7 assistance in -- in inviting us and in helping us to prepare  
8 for the panel.

9                       I will say, maybe to make you feel a little  
10 bit better, my 27th anniversary at Con Edison is coming up  
11 very shortly. I think I started when I was probably 15. At  
12 least in my head, right, how did this happen.

13                      You know, it's interesting as I was thinking  
14 about that, when I started at Con Edison one of the first  
15 terms I started to hear about was rate-based and revenue  
16 requirement. And I quickly, having just finished an MBA in  
17 finance, pulled out my corporate finance textbook and tried  
18 to look in the index what is rate base. And it wasn't there.

19                      (Off-the-record discussion)

20                      MR. NACHMIAS: And so I looked at, you know,  
21 revenue requirement rate base wasn't in the corporate finance  
22 textbook that I had used. And it took me a while to figure  
23 out -- not too long, but it took me a little while to figure  
24 out what was this and why -- why is this different for  
25 utilities.

                          And obviously, I've come to -- to learn over

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2 those 27 years that the fact that utilities are regulated  
3 entities, that we have a rate base and revenue requirement,  
4 our return, equity return is set by the regulator based on  
5 information about the market and allows us to raise funds,  
6 raise the capital needed for long-term investments, both on  
7 the equity side and access to low cost debt.

8                           And I raised that because I think the  
9 fundamental premise is that we are utilities. Our investors  
10 invest in utilities because of the regulation, the rate base,  
11 and revenue requirement that results from the process of  
12 regulation. And that is something that is core to who we are  
13 and what we do. And our view as utilities is that that  
14 remains as we move forward through REV.

15                           And certainly the business model and what we  
16 do is evolving, but the types of investments and how we work  
17 to accommodate distributed energy resources in the future and  
18 to move to a cleaner, more resilient, reliable, safe,  
19 affordable future remains with us as regulated utilities.  
20 That's not to say that -- that some of us don't have  
21 affiliated companies that are more competitive in the  
22 marketplace, but the core business that we're talking about  
23 today is in the regulated utilities.

24                           And -- and therefore, it's important to note  
25 that as we invest in technologies and we have data and  
information, we do that as regulated utilities. And the

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2 platform services revenues that we're talking about is how  
3 the utilities would be able to gain revenues from being, in  
4 essence, a facilitator of third party -- third parties in the  
5 marketplace. And those revenues are really important and  
6 it's how we will recover or one of the ways in which we will  
7 recover our revenue requirement.

8           The market-based earnings that are being  
9 discussed is sort of a subset of the platform services  
10 revenues. And I think what's really important to think  
11 about, which we do are very often in utilities, is how is the  
12 revenue requirement that we generate, how is that recovered  
13 from customers.

14           And what's important here is, unlike in the  
15 past where we took out cost and we do class of study -- class  
16 studies and we assigned cost to customers, there are  
17 customers that are going to participate in different types of  
18 products and services. And so as they use information or as  
19 the utility can actually leverage its role to help and work  
20 with third parties, it can get additional revenues.

21           Those revenues should go against the revenue  
22 requirement to benefit all customers and, in particular, to  
23 help reduce the costs to customers that are not participating  
24 by obtaining revenues from customers that are more active in  
25 participating and should be willing to pay for those products  
and services offered by the utility because the benefit

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2 they're getting would outweigh the revenues that they are  
3 giving to the utility for that -- for that assistance in that  
4 role.

5                         And so as we -- as we think about REV and we  
6 think about the platform services revenues, I think it's  
7 important to think about what are those revenues, how is the  
8 utility generating that, and then what is it doing to -- you  
9 know, in using those revenues to help benefit both  
10 participating customers and non-participating customers. And  
11 that's the framework under which we are very much thinking  
12 about this. So that's an important piece.

13                         I -- I think, as we consider those revenues,  
14 you know, we certainly might want to consider should  
15 utilities have an incentive. So if we want utilities to be  
16 able to achieve those revenues and make sure we are helping  
17 third parties and maximize those -- those revenues because  
18 it's good for all customers, right, maximize maybe in a way  
19 where it's -- it's helping the participating customers in a  
20 fair way but also others, having utilities perhaps retain a  
21 share of those and -- and a small share of those -- those  
22 revenues might be a fair incentive and something to be  
23 considered. But the bulk of those revenues should go back to  
24 customers.

25                         So -- so I think there are two other issues  
that sort of come up when thinking about those revenues that

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2 -- that has been in the comments of the utilities and other  
3 parties, which is what is the pricing of those products and  
4 services, how should those products and services be priced.  
5 And I think the thought of the utilities is that we want a  
6 fair price, but it could be a value-based pricing should be  
7 an option that is on the table because the value that those  
8 participating might be more than the costs. And so the  
9 objective should be that those participating should be  
10 willing to pay based on the value of those products and  
11 services.

12                       They should get value in the end that is  
13 greater than what they are paying the utility. And those  
14 revenues then ought to be used to help benefit the customers  
15 that are not participating and not electing to buy those  
16 products and services.

17                       So I think that's a very important part of  
18 the premise that we -- certainly has been teed up in the  
19 discussion. And I think that there's more discussion that  
20 ought to be had on that.

21                       And then last, the question -- the other  
22 question that comes up is what are the products and services  
23 that the utilities are providing and that they should not be  
24 competing with third parties. And I think from the utility  
25 perspective, what's clear is we see ourselves as a  
facilitator and using our role to help facilitate third



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2 parties.

3                       The Track 1 order clearly has stated that  
4 distributed energy resources, behind-the-meter resources,  
5 will generally not be provided by the utility. And so we are  
6 not looking to provide the same competitive products and  
7 services that third parties do, but rather, to facilitate  
8 third party participation. And they're offering products and  
9 services to customers.

10                      And so just one quick note as an example and  
11 we can get -- get into this more, but in -- in many of the  
12 demonstration projects what we are trying to do is help third  
13 parties identify customers that would want to use the  
14 products and services of third parties and to gain revenues  
15 because we are helping those customers locate, identify, and  
16 obtain customers.

17                      And so therefore, those revenues that we  
18 would achieve would then be used to benefit all -- all other  
19 customers.

20                      So I'll stop there. I think that hopefully  
21 tees up where the utilities are and how we see a platform  
22 service revenues potential for market-based earnings and the  
23 other key issues of the products and service offerings from  
24 utilities.

24                      MR. ZSCHOKKE: Ditto. Thank you.

25                      MR. NACHMIAS: Peter, you've just been on too

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2 many panels.

3 MR. MAGER: Okay. Well, I'll take Peter's  
4 time then. So --.

5 MR. ZSCHOKKE: I'll expect you to pay me back  
6 later.

7 MR. MAGER: -- so if you were here yesterday,  
8 you know, I'm -- I'm not a big fan of EIMs, especially how  
9 they have been proposed in the white paper. Maybe it will be  
10 a surprise to some, maybe not, that I think market-based  
11 earnings, in contrast, have the potential to really benefit  
12 consumers, as well as utilities, depending on how they are  
13 structured and implemented.

14 And that's, I think, the key point. And my  
15 focus, not surprisingly, is on consumer benefits. And that -  
16 - the way we look at it, that's really the reason we're doing  
17 this, why the Commission is undertaking REV. And you know,  
18 if we get to the point where utilities and ESCOs and DER  
19 providers are all benefiting but consumers are not, then I  
20 think REV is going to go down as a colossal failure. So I  
21 think the focus really needs to be on consumer benefits.

22 And in particular, MBE should be managed in a  
23 way that ensures that they are beneficial to customers and  
24 result in a -- an overall reduction in utility rates for the  
25 provision of monopoly services.

So with that intro, I'd like to offer my 6

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2 commandments on how to implement MBEs.

3                   1, the PSC shall go slowly on MBEs. The  
4 development of DSP services and MBEs likely will take many  
5 years. Take baby steps. Don't try to do too much, too soon.  
6 The market will decide what new products and services have  
7 merit.

8                   2, utilities shall not use their monopoly  
9 position to gain an unfair advantage and/or inappropriately  
10 exercise pricing power in markets that should be competitive.

11                   3, the PSC shall ensure that MBEs are limited  
12 to new products and services that provide additional value,  
13 either to suppliers, customers, or other third parties, above  
14 and beyond traditional electric service that's already  
15 governed by and paid for through tariff-based rates.

16                   4, MBE shall reflect an equitable sharing of  
17 revenues between customers and shareholders. Now, let me  
18 take a second to explain what I mean by equitable in this  
19 context. Where the utility is relying on its monopoly  
20 position and it's using information systems or people or  
21 other investments or assets that have been funded by  
22 customers, then customers should receive the lion's share of  
23 the revenues.

24                   Conversely, where the product or service is  
25 being offered is truly competitive and the utility is  
spending or risking shareholder money to offer and provide

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2 such product or services, then it would be appropriate to  
3 allow shareholders to retain a larger share of the revenues.

4           5, customer share of market-based revenues  
5 shall be used to reduce rates to customers. Let's not divert  
6 those revenues to pay for the next great idea. Let's use  
7 them to reduce rates.

8           6, the PSC shall actively oversee prices  
9 charged for DSP products and services. How? If the -- if  
10 the products and services are offered only by utilities as a  
11 result of their monopoly status, they should cost-based  
12 because they're not competitive.

13           On the other hand, if the products and  
14 services are truly competitive, and by that I mean the  
15 product or service is not covered by existing rates, it's not  
16 reliant on the utilities monopoly status, and can be provided  
17 on a comparable basis by other parties, then market-based  
18 rates or value pricing, as Stu said, would be appropriate.

19           And I think -- the one thing I'd leave you  
20 with is in a way market-based earnings are a form of an EIM  
21 I had a brief conversation with Rudy about that yesterday.  
22 Market-based earnings do provide financial incentives to  
23 utilities. But I think there are a couple of big differences  
24 between the MBEs we're discussing today and some of the EIMs  
25 that have been proposed.

          The first one is to the extent MBEs are

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2 realized, to the extent market-based earnings are actually  
3 realized, you would know that benefits have been provided  
4 because ESCOs, developers, or customers are actually choosing  
5 voluntarily to purchase value added products or services.

6                         2, unlike EIMs that are -- are going to be  
7 presumably paid for by all customers with MBEs, only the  
8 entities that are voluntarily choosing to procure the  
9 products and services are going to be the ones paying for  
10 them, not all customers.

11                         And third, unlike EIMs, which have the  
12 potential to raise rates, and we would say are very likely to  
13 raise rates as proposed, MBEs should be implemented in a way  
14 that actually reduce rates for monopoly services by  
15 offsetting a part of the revenue requirement.

16                         Thank you.

17                         MS. REYNOLDS: Good morning, everyone. I am  
18 Anne. I work for the Alliance for Clean Energy.

19                         You probably never thought you'd hear me say  
20 this after going after Mike, but ditto. Actually, there is a  
21 remarkable amount of alignment between, I think, what I've  
22 heard so far and our position.

23                         I should add East New York is working in  
24 close partnership with the Advanced Energy Economy Institute  
25 and NECEC And so I'm here today representing the position of  
all three organizations and our member companies.

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2 So -- and to summarize, our comments on MBEs  
3 essentially it was a message of caution and gradualism. We  
4 don't think that MBEs should become a major and significant  
5 part of utility revenues in the near term. We, in contrast  
6 actually to what was just said, like the focus on EIMs in  
7 order to motivate actions that will -- will grow the market  
8 for DER.

9 But -- and we also don't think MBEs should be  
10 allowed in the near term for competitive services. But that  
11 said, let me be a little bit more positive for a moment. We  
12 certainly understand and support the motivations for having  
13 market-based earnings and fostering innovation at the  
14 utilities and creating new products and services that  
15 customers want, and offsetting on the general rate base some  
16 of the potential costs of investments in the DSP, those are  
17 all to the good, as was said.

18 But we think this needs to be balanced.  
19 Those benefits need to be balanced with the risks to grow  
20 from the DER market in the short term.

21 So in our comments we distinguished between  
22 platform service revenues and competitive services, and  
23 further distinguished between platform service revenues that  
24 were essential services related to operation of the  
25 distribution system and those that are value added such as  
operation of a customer engagement portal.

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2 The second category is in -- you know, is in  
3 grid operation. And in fact, other parties could provide  
4 those services, but if the Commission decides, because of  
5 pragmatic reasons or reasons of public policy, that that is a  
6 role for the utilities, it certainly is related to their --  
7 their role as the DSP. And they could gain revenues in that  
8 -- in that -- in that area of operation as was described  
9 because of advertising or transaction fees or fees to use the  
10 platform.

11 Our position is that both of those types of  
12 platform service revenues should be open to market-based  
13 earnings. We think that that's fair territory there. And it  
14 -- all of those activities could be seen as those that are  
15 necessary to grow the market for DER and to enable and  
16 facilitate the market for DER, as Stu was saying.

17 In contrast, there's competitive services  
18 that could be offered by third parties and we think they  
19 should exclusively be offered by third parties in the near  
20 term. So things like engineering services, consulting  
21 services, energy efficiency, audits, for example, are not  
22 things that we think should be included in the realm of the  
23 possible for MBEs in the near term.

24 And that -- and that restriction, our  
25 position there is based on two ideas. One is that we'd  
rather see the innovation at the utilities focused into

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2 activities that will grow the DER market, rather than  
3 directly compete with DER providers. And we think that,  
4 while it's theoretically possible to allow the utilities to  
5 act in that arena, it would be very complex and difficult to  
6 fully police how you'd have a fair playing field there. Not  
7 impossible, but certainly we think so complicated in the near  
8 term that we should put that off to a later stage in REV.

9                               So, I'll stop there.

10                              MR. UMOFF: All right. Hi there. I'm Rick  
11 Umoff for SEIA. Thanks for having us. We are the National  
12 Trade Association for solar companies. We've been engaged in  
13 REV since the beginning and engaged in Track Two.

14                              I agree with Anne that there seems to be a  
15 lot of actually more agreement on this panel than -- than I  
16 may have thought which is, I think, a good thing. I think  
17 when we're thinking about MBEs, PSRs, EIMs, and really the  
18 future of what this platform's going to look like and how  
19 it's going to be built out, there's a few themes that we --  
20 that come to mind for us

21                              And the first is market power. You know,  
22 we're really concerned about ensuring a balance of market  
23 power. Functional separation between the utility and the  
24 DSP, also the monopoly versus competitive market. Types of -  
25 - and finally, types of earnings, cost-based earnings versus  
competitive earnings.



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2 When we look at REV, and I say this an  
3 organization who is very excited about REV and heavily  
4 invested in the success of REV, but we believe that the  
5 decision to allow the utility to operate as a DSPP. and build  
6 out the DSP has created an inherent conflict of interest at  
7 the heart of REV.

8 And rather than focusing on market-based  
9 earnings, the Commission right now should be focusing on  
10 setting up a neutral platform that guards against this  
11 conflict of interest. And the burden now going forward,  
12 given the structure that we have with the utility operating  
13 the DSP, is going to create a bit of a burden on the  
14 regulators to mitigate this conflict of interest going  
15 forward.

16 We believe the Commission should identify  
17 monopoly functions for the utility earned regulated returns  
18 and focus on developing a satisfactory cost recovery for  
19 those functions, at least a neutral platform and enables  
20 third party participation.

21 Utilities should provide the monopoly  
22 functions and competitive functions should be provided by  
23 non-utility market entities. And the Commission should  
24 clarify that utilities' role is limited to monopoly functions  
25 are uniquely enabled by the utilities' monopoly status for  
which the utility will earn a regulated return based on cost

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2 of service through rates established by tariffs. And these  
3 tariffs may include platform service revenues or EIM, as well  
4 as traditional collections based on customer usage.

5           The Commission should disallow competitive  
6 utility functions in the REV market to avoid using ratepayer  
7 funded assets and personnel for shareholder benefit and to  
8 ensure that competitive entities have the confidence and  
9 fairness of a neutral DSP in competitive market.

10           And we think the focus should really be not  
11 just on establishing a neutral platform, but also a DSPP.  
12 that's defined functionally and possibly structurally  
13 separate from the utility.

14           The DSPP. should file with the Commission for  
15 cost recovery through one or more DSP-specific tariffs that  
16 are not combined with any other utility tariff or service  
17 classifications although these tariffs could -- and these  
18 tariffs could include PSRs and EIMs.

19           Once the platform has been established and  
20 shown to be effective, that is when we can start to look at  
21 additional functions or services that the DSP might provide.  
22 However, that should only be done in the context of always  
23 considering whether the functions or services are better  
24 provided by the competitive market participants. And it  
25 should be made clear that PSRs are cost-based charges for  
accessing and using platform services. We see PSRs as an

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2 effective mechanism to allocate cost to entities that use the  
3 platform services, which is appropriate to enhance  
4 efficiency, allow the DSP to recoup its cost as a monopoly of  
5 service. and potentially provide an opportunity to offset  
6 loss of kW sales.

7                       But until the Commission is confident that  
8 it's established a neutral platform that is facilitating a  
9 robust DER market, we think that a focus on longer term MBEs  
10 or competitive-based earnings of any kind really should not -  
11 - should not be there.

12                       And I think that pretty much wraps it up.  
13 Thanks.

14                       MR. HENRY: Thank you all very much. So we -  
15 - we the Staff team has a few questions.

16                       MR. NACHMIAS: Can I --

17                       MR. HENRY: Is there something --?

18                       MR. NACHMIAS: Can I just -- I just wanted to  
19 comment. I mean, having spoken first and then -- then  
20 hearing the others and particularly Mike's, you know, six  
21 commandments, I just want to say that, almost ditto to what  
22 I've heard, as well, but there are two things I wanted to  
23 point out on -- on Mike.

24                       So one of the -- one of the commandments said  
25 something about sharehold -- you know, that -- that customers  
should get the bulk of the revenues with the exception of if

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2 shareholder money is used. And just to be clear, going back  
3 to the premise of these are regulated utility investments, we  
4 don't expect that shareholder money will be used within the  
5 regulated utility for these kinds of investments. If that  
6 happens, that happens in the affiliated -- you know,  
7 competitive affiliated different companies. So to be clear,  
8 we're talking only about things that are being done as a  
9 facilitator. So I wanted to make that -- that part clear.

10                         And then -- then the other piece, because it  
11 was ditto on everything except for this one, that that all of  
12 those revenues and the pricing ought to be cost based. Just  
13 on that, sometimes the cost is going to be pretty low, but  
14 the value is higher.

15                         So as an example, if we're helping a third  
16 party to save a customer money to participate in some sort of  
17 demand response or energy efficiency program or to maybe  
18 procure solar and that customer is going to save a lot of  
19 money and the third party is going to really have a profit in  
20 that that's significant, we think that we ought to be able to  
21 price our service based on the value that the customer and  
22 the third party is going to get as a way to get the most  
23 appropriate revenue that then goes back to all other  
24 customers.

25                         So I just want to be clear. That's why we're  
thinking that really it could be cost, but value -- it could

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2 be value also. So those were the only two pieces.

3 And frankly, just to go out on a limb on --  
4 on the whole concept of market-based earnings, at least for  
5 us I think for the utilities if we never had this acronym and  
6 we focused on platform services revenues and, instead of  
7 market-based earnings, just said we're going to share the  
8 revenues in some way where a small part will go to the  
9 utilities as incentive to achieve the revenues, but the  
10 majority will go back to customers, and talk about what are  
11 the platform services that we're going to provide, I think we  
12 as utilities would be just as happy because I think that  
13 really focuses what we're talking about here, not market-  
14 based earnings where we're putting shareholder money at risk  
15 and not where we're competing with other third parties in the  
16 products and services.

17 MR. HENRY: Okay. Mike?

18 MR. MAGER: I just want to -- sorry -- I just  
19 want to reply a little bit.

20 So the utilities' decision not to put any  
21 shareholder money at risk raises a couple of issues or  
22 warrants a couple of responses. One, I guess, if -- if the  
23 utilities are looking for the customers to fund everything,  
24 then -- then their share of the market-based revenues truly  
25 should be significantly small under those circumstances.

But it also, I think, places increased

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2 pressure on the PSC and Staff in terms of deciding what --  
3 what products and services are offered. You know, for  
4 instance, who gets to decide that customer money should be  
5 spent to offer the services to gain this capability? Because  
6 I'm assuming that what's going to be offered through this --  
7 through this vehicle is going to be new products and  
8 services, not the existing stuff that's are -- that you're  
9 already doing, that's already covered through rates.

10                           And so if these are new products and  
11 services, does the utility get to decide how much customer  
12 money it gets to invest in the hope of offering it? I think  
13 that raises a lot of concerns from the consumer standpoint,  
14 whereas I would favor some type of system where the utility  
15 shares in the benefits and the risks of those investments  
16 because I -- I don't want the utility necessarily deciding to  
17 invest customer money to voluntarily offer a service that may  
18 or may not be needed or may or may not be of true value to  
19 the market if the utility has no skin in the game.

20                           So that's -- that's my response.

21                           MR. HENRY: Anne?

22                           MS. REYNOLDS: See, we're not going to even  
23 let you ask us a question. So I just wanted to respond to  
24 that, too.

25                           I mentioned that in our written comments we  
made this distinction between two types of platform service

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2 revenues. And part of the reason we did that was to answer a  
3 bit of what Stu's question was. So the first type that what  
4 we refer to as essential platform services that would be, you  
5 know, exclusively using the investments that had been paid  
6 for by ratepayers, that should be cost of service.

7                       But that on the value added platform service  
8 revenues, that may be more appropriate to do, as you say, and  
9 have the price be based on value.

10                      So -- so we sort of wanted to make that  
11 distinction in part to answer that question, and did say  
12 though that there remains a concern there that if the utility  
13 is the only one providing that -- that -- say that digital  
14 marketplace or whatever it is, the customer engagement  
15 portal, that there still is some concerns about what the  
16 price would be set at because you'd be the only one providing  
17 it. And mentioned there that maybe that's worth an important  
18 interaction with the EIM for customer engagement because if  
19 you had a separate earnings impact mechanism that would make  
20 the utilities have their interest be aligned with a robust  
21 customer engagement portal, then you wouldn't want to set the  
22 prices too high that people wouldn't take advantage of it.  
23 So that the two mechanisms could work together.

24                      MR. ZSCHOKKE: If I could? Just as a point  
25 of order, everything the regulated entity will do will have  
to come before the Commission. We will have to make a

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2 proposal. You know, it'll start with the DSP plans that are  
3 coming forward in -- in -- in the -- later in the year. The  
4 Department's -- the Commission's going to have to review  
5 them, decide what they want the utility to do or not.  
6 Everyone's going to have a chance to intervene and argue  
7 about what we should do, what we shouldn't do.

8                         So there will be full investigation, unlike  
9 most of the other third party actions who can choose to do  
10 what they want to do because they are risking their own  
11 shareholder capital and they won't necessarily be under the  
12 guise of the PSC authority.

13                         But for us, for what we are doing for these  
14 platform service revenues, we do expect that they will be  
15 overseen by the PSC and that we will have to ask for  
16 authority to charge any platform service revenues that come  
17 forward. And, you know, maybe ten years down the road things  
18 may change, but at least for the time being we will be under  
19 the authority of the PSC, and will continue to do so.

20                         So I think people's worry about whether or  
21 not they will be -- you know, we will make the decision to do  
22 something independently without the -- getting the authority  
23 of the PSC to say yes, you should, I think that's -- they can  
24 -- you can worry less about that, Mike.

25                         MR. UMOFF: If I could just quickly?

                          MR. HENRY: Go ahead.



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2                   MR. UMOFF: Just kind of building on Anne's  
3 comment about those kind of different types of PSRs. You  
4 know, we think it's -- it's pretty early in the game to be  
5 talking of value, sort of value added PSRs. And you know,  
6 it's going to be really important to make sure that we give  
7 the competitive marketplace the opportunity to offer those --  
8 those services as much as possible and -- so that we don't  
9 have a situation where the utility is sort of playing that  
10 role even, maybe, you know, by accident because the  
11 opportunity wasn't there for the competitive market to kind  
12 of get going and provide some of the services that -- that  
13 they could be providing.

14                   MR. MAGER: I -- I just want to address this  
15 pricing issue as -- as well. To the extent the utilities are  
16 allowed to offer products and services that are truly  
17 competitive that other entities can similarly provide, then I  
18 think value-based pricing has a role and I don't necessarily  
19 oppose it.

20                           But where the product and services offered  
21 only by the utility as a result of its monopoly power, we  
22 feel much more comfortable with cost based pricing. I think  
23 there is something to -- that has to be remembered. I mean,  
24 Stu gave an example of, you know, what if, you know, we're  
25 doing something that it may not cost us a lot but for the  
ESCO it provides a really big benefit and so, you know, we

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2 think we can charge a higher price for it.

3 I think it's important to realize that, you  
4 know, whether it's to an ESCO or developer or whoever is  
5 buying this product and service, the cost that the utility  
6 charges them is going to be passed through to the consumer at  
7 the end of the transaction. Consumers are going to be paying  
8 for this.

9 And so the issue, as I see it, is whether  
10 they pay it directly by purchasing the product or service,  
11 themselves, or indirectly through a third party, they're  
12 going to be paying for it and should they have to -- should  
13 that charge be a value-based service for something that the  
14 utility is providing under its monopoly power. And I think  
15 the Commission should stick with cost-based ratemaking for  
16 those types of products and services.

17 MR. NACHMIAS: So just to respond to that, I  
18 think you make a -- a good point. I think it's really a  
19 matter of allocation of the cost. And so today, you know,  
20 most of, if not all of the cost of the utility are generally  
21 socialized to all customers via rate class and ratemaking  
22 methodologies.

23 What we're just trying to say here is the  
24 revenue requirement, we should have a way where those --  
25 where we're differentiating more. And those customers that  
are actually participating and taking advantage of those

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2 platform services that are being offered ought to pay perhaps  
3 based on the value only because what that does is it gets us  
4 the revenue that can offset the revenue requirement to  
5 minimize the net revenue requirement that has to be  
6 socialized to all other customers.

7           Meaning that those customers that are not  
8 taking advantage of those products and services don't have to  
9 pick up a -- a share of it. So -- so we just may not, you  
10 know, want to socialize as much. So it's a way really to  
11 reduce the net revenue requirement for those products and  
12 services that has to get socialized and paid for by all  
13 customers.

14           It's really just a shifting. I mean, if  
15 there is a decision that everybody ought to pay the same,  
16 whether you're participating or not, that's a decision that  
17 ought to be made. Our view was we ought to be able to get  
18 the -- a fair revenue from those that are actually using  
19 those products and services.

20           MR. ZSCHOKKE: Yeah, I just add to Stu's  
21 point to mean -- Mike has -- has put out one -- one side of  
22 the equation, which is we do things cost based, we'll have a  
23 rate, we'll have tariff. It will cost X to do Y.

24           But keep in mind that as a platform, we will  
25 be providing services to businesses who are trying to act in  
the market. And these businesses have knowledge about their

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2 customers. They have knowledge about what they're going to  
3 offer. Should the utility -- and I'm not saying we should or  
4 shouldn't, I think we should, for the benefit of all  
5 customers, but should the utility be able to, you know,  
6 maximize through negotiation the revenues they can get from  
7 those services in order to offset the costs of service?

8                   Or should we be restricted to only to -- to  
9 having a proceeding before the Commission and charging  
10 strictly one number that everybody knows? What will be the  
11 construct we will create in order to provide benefits for all  
12 the customers, knowing that this will be a business  
13 transaction? You know, we may have to come forward with a  
14 construct to the PSC to get it approved by transaction, but  
15 it will be a business transaction between people who -- who  
16 have their own financials, have their own numbers and, you  
17 know, are we -- so what kind of a construct we will allow to  
18 deliver platform service revenues that do help reduce the  
19 cost of service to all customers.

20                   MR. MAGER: No, go ahead. I feel bad he's  
21 just standing up there with nothing to do. Go ahead.

22                   MR. HENRY: Well, thank you for all your  
23 thoughtful insights there.

24                   One question that -- that -- that comes to  
25 mind, since we're -- you know, we're -- the discussion's come  
up as far as how much shareholder money would be at risk with

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2 the platform. And the Staff white paper notes an instance in  
3 the gas delivery business where there is -- there's no  
4 shareholder money at risk, but that the utilities are able to  
5 -- they're able to realize revenues from capacity releases  
6 and they're typically shared somewhere in the -- somewhere  
7 85/15 percent, 85 percent to ratepayers, 15 to shareholders.

8                       So I was just wondering what the panelists  
9 feel what sort of insight that would be for -- for the --  
10 with respect to the platform?

11                      MR. NACHMIAS: I think it's a good analogy.  
12 Right? It's where under regulation a utility has contracted  
13 for a pipeline capacity. There are times where that pipeline  
14 capacity is not needed by the utility and so there's a market  
15 for release. The revenues are obtained from that. It is a  
16 market-based revenue, in essence. And those revenues go back  
17 to -- the majority of it back to the customers that are  
18 paying the regulated cost of that pipeline service and with a  
19 small piece to the utility that gives it the incentive to  
20 release.

21                      Otherwise, the utility could simply say I  
22 don't have to release it, I'm getting the full recovery of  
23 all these costs. But the incentive is to lower the net cost  
24 of that capacity to all customers. So it's -- it's really  
25 quite a similar analogy.

                    MR. MAGER: I think -- I think there are some

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2 differences. In the -- the capacity example, the utility has  
3 procured capacity that was thought to be needed and there's  
4 some excess capacity there. The investment has already been  
5 made and so now they are trying to maximize the -- the  
6 revenue to offset that prior investment.

7                       This is, I think, a little different. I -- I  
8 guess I confess. I'm not totally comfortable with a  
9 situation where utilities get to, you know, propose what --  
10 what capabilities they're going to have, what products and  
11 services they're going to offer into the market, what pricing  
12 they're going to use for these products and services and  
13 they're going to make all the underlying investments at  
14 customer expense, and not have any skin in the game, so to  
15 speak.

16                       I -- to me, that -- that's not the  
17 appropriate way to do it. Where -- where there is something  
18 that is truly -- you know, where something that's truly a  
19 monopoly type service where -- where the utilities are  
20 actually putting up little to nothing of their own funds,  
21 there should be a vast majority of the money going back to  
22 customers.

23                       And I -- I would not be comfortable with the  
24 15-percent figure used in that context. But I do think there  
25 is opportunity for utilities to earn greater revenues where  
they do step up, put some funds at risk or offer products and

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2 services that are truly competitive.

3 MR. HENRY: Anyone else?

4 MR. NACHMIAS: Just one thing on that. All  
5 of the products and services that the utility ultimately will  
6 offer will not necessarily be the result of incremental  
7 investment. So as an example, right, utilities may make  
8 investments in DSP technology. And we're doing that for a  
9 variety of reasons including that we need to do it anyway  
10 because we need to have greater visibility into distributed  
11 energy resources and we need to operate the system with --  
12 with more clarity, transparency, and knowledge of what --  
13 what is happening on customer side.

14 So as we -- as we advance the technologies  
15 that helps third parties to integrate, but also allows the  
16 utility to operate the system, there may be product and  
17 services that make sense to help third parties that aren't  
18 necessarily the result of incremental investment but can  
19 provide revenues that go back to the investments that already  
20 have been made.

21 And that's -- that's similar to why I think  
22 it's similar to the gas scenario, where in that case  
23 utilities have already made the commitment they had to, to  
24 get the pipeline capacity for firm customers on the cold  
25 winter day, but in other times of the year it's available and  
so there's an opportunity to make additional revenues. I

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2 think it's similar here.

3 And so I think there's a -- a degree of  
4 flexibility that would be needed as we determine what are the  
5 additional product service revenues and product services that  
6 would be available. And really the goal would be to have  
7 revenues that can be used against that revenue requirement.

8 MR. UMOFF: I mean, I think I can definitely  
9 see some parallels. I think one of the challenges it's -- to  
10 me it seems like a much more simplistic scenario than that  
11 we're looking at under REV. You know, the REV platform is  
12 going to be much more dynamic than that. And you know, what  
13 we're concerned about at this such early -- this early stage  
14 is making assumptions about what the competitive market can  
15 do or will do if a neutral platform is established.

16 And so, you know, we just, you know, caution  
17 to move slowly in terms of deciding which sort of platform  
18 services or value added services is appropriate for utility  
19 to offer when we -- we don't -- you know, we don't know -- we  
20 can't imagine some of the services and products that could be  
21 provided on this platform if established correctly by the  
22 competitive market, so.

23 MR. HENRY: Thank you.

24 So we've also heard a lot of -- it seems like  
25 it's difficult to have a discussion about market-based  
earnings without also discussing earnings impact mechanism.



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2 So I just wondered if any -- any of you would care to comment  
3 how you see the interaction of earnings impact mechanisms and  
4 MBEs as -- as REV rolls out?

5 MS. REYNOLDS: Well, I can -- one example is  
6 what I mentioned before. You can imagine a situation where  
7 the utility is running a customer engagement portal and is  
8 also -- has a digital marketplace where there's transactions  
9 that are taking place. They're earning revenues from  
10 customer origination or referrals or advertising or fees for  
11 transactions, but they're the only person -- the only entity  
12 providing that service in that way. So you'd want the price  
13 to be fair, but it might be appropriate to have it be based  
14 on value, not just on cost of service.

15 So the EIM would be critical in ensuring that  
16 the utility wants there to achieve a certain level of  
17 customer engagement, a certain level of transactions so they  
18 could work together in that way to -- to make the utility  
19 want to have a price that's working to have the -- the market  
20 be robust.

21 MR. HENRY: Anyone else care to offer  
22 anything else?

23 Okay. So another question from the -- the  
24 Staff team would be, you know, as you know, REV contemplates  
25 an interest in spurring partnering relationships and the  
benefits associated with those relationships. What

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2 opportunities do you see in this area?

3 MR. UMOFF: The opportunities between the --  
4 I'm not sure if I fully follow the question. Can you repeat?

5 MR. HENRY: So REV is contemplating -- it  
6 contemplates an interest in spurring partnering relationships  
7 and the benefits that are associated with those  
8 relationships. So what opportunities do you see for this to  
9 occur?

10 MR. UMOFF: And by relationship, you mean  
11 relationships between the utility and the -- and the service  
12 providers, a third party?

13 MR. HENRY: Right.

14 MR. UMOFF: Again, I feel like we're sort of  
15 looking -- we see that -- we see a future -- more dynamic  
16 future and a more dynamic market down the line. But we think  
17 -- and we're encouraged by that vision, but we think that  
18 we're -- we're just -- we're not even close.

19 And it's a bit concerning to start to think  
20 about, you know, bilateral -- bilateral contracting or -- or  
21 some kind of partnerships where the role of the utility  
22 starts to seep into the competitive marketplace and it  
23 becomes a bit blurry.

24 And so, you know, we -- we -- you know, we do  
25 see some opportunity there potentially for maybe certain  
carve-outs where, you know, the utility and -- and the

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2 service providers -- it does make sense for them to -- to  
3 have some partnerships. But we -- we just don't think we're  
4 there yet. The focus really needs to be on establishing a  
5 neutral platform.

6                   MR. NACHMIAS: Can I just -- I would just say  
7 I think that an example are some of the demonstration  
8 projects that you alluded to. So where the utilities are  
9 working with a variety of third parties to either develop a  
10 platform or maybe to help.

11                   In one case, Con Edison, we have a virtual --  
12 the virtual power plant project where we're working with  
13 solar companies, helping them to identify, acquire customers,  
14 and to help make -- help make the product and services sale  
15 so that it helps not only the utility, it helps the customer,  
16 it helps -- actually the customer probably first and  
17 foremost, helps the third party.

18                   And so I think that there's a variety of ways  
19 where those kinds of relationships will evolve and continue  
20 to evolve because clearly the -- the utility has a role to be  
21 able to help and work with a variety of third parties.

22                   MR. MAGER: I guess I -- I largely agree with  
23 what Rick said. And I -- I think, you know, that there may  
24 be kind of informal partnerships in that the utility as the  
25 DSP provider is going to have to know what products and  
services are desired by the marketplace and so they're going

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2 to be, I imagine, interacting with other parties.

3                       But then actually providing the service, I  
4 think it's critically important that they remain neutral.  
5 And so, you know, you wouldn't want them necessarily having a  
6 partnership -- a formal partnership with one supplier on a  
7 particular product or service because what would that do to  
8 the other potential providers of that product or service.

9                       So, you know, I think -- I think the  
10 utilities are going to have to be responsive to the  
11 marketplace and get inputs in terms of what products and  
12 services are actually valued by the marketplace. Of course,  
13 unlike my colleagues, I'd prefer them to have some skin in  
14 the game to really do a good job with it. But either they do  
15 or they don't, they need to -- they need to be cognizant of  
16 what parties desire, what products and services are desired  
17 that they are particularly in a position to provide. But  
18 they can't enter -- I guess, I -- I have some concerns about  
19 them entering into formal partnerships with individual third  
20 parties.

21                       MR. HENRY: Well, thank you all very much for  
22 some -- your wonderful insights here.

23                       I'd like to offer the audience an opportunity  
24 to step up to the microphone and ask questions. And as  
25 others had mentioned before, please state your name so the  
record can have it clearly.

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2 MR. ZSCHOKKE: If -- if I may just add to  
3 Mike's point? A partner that you have a single relationship  
4 because they want to bid, that's a vendor, not a partner.  
5 They're still under your management control. Partners should  
6 be somebody who actually put some of their skin in the game  
7 if not all of their skin in the game for what they are doing  
8 for their business purposes and they are just aligning so  
9 that they can -- they can get sort of customers more  
10 effectively, so.

11 MR. HENRY: Thank you.

12 MR. LEONARD: Hi. Ron Leonard.

13 First, I want to address the veterans on the  
14 panel here, 27 years. I've been in the cogeneration business  
15 and solar energy business --.

16 UNIDENTIFIED SPEAKER: Ron?

17 MR. LEONARD: Yes?

18 UNIDENTIFIED SPEAKER: Turn your mic on.

19 (Off-the-record discussion)

20 MR. LEONARD: So I've been in the  
21 cogeneration business and renewable energy business since  
22 1975. You can do the math.

23 I wanted to address Con Ed a little bit. My  
24 father worked for Con Ed for a little while, basically 8  
25 years after World War I until the early '90 -- excuse me,  
until the early '60s. And the reason I bring him up is that

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2 I think in that period the utilities had a fair relationship  
3 with the public at large. There was a regulated utility that  
4 offered fair service.

5                       And I think the relationship might have  
6 shifted since that time. That the utilities -- well, look at  
7 the proceedings that we're addressing right now. The  
8 utilities really are operating very -- like a very strict  
9 monopoly. And you look at the proceeding response from the  
10 utilities, you'll see that all the utilities respond with one  
11 voice.

12                      So I am wary because of that. I'm wary my --  
13 by the simple proceeding that we're having right now, we're  
14 trying to give the utilities a way of surviving in this new  
15 era, you know, actually forcing them to offer services that  
16 people want to buy, which is unique.

17                      And in -- in that instance, that service that  
18 they want to buy and offer, the fair trade is by being a  
19 monopoly you have market power that's one-sided. And what  
20 I'd like to bring up as an example about one-sided market  
21 power is cogeneration where you can offer a disconnect fee  
22 that makes cogeneration basically uneconomical. Famous  
23 example is Durst in New York City.

24                      So I'm wary about the proceeding moving in a  
25 direction that favors utility over the public. I'm wary  
about the participation in non-utility people in the process,

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2 our friend here from SEIA. It is vital for groups like that.  
3 I help organize SEIA in 1994, along with Peter Lowenthal.  
4 These groups, these -- these non-paid consumer advocates on  
5 these proceedings are the life and breath in terms of making  
6 this work.

7                       You know, I sort of find myself relating to  
8 the business counsel's argument that offering utilities too  
9 much leeway, too much rope will gear the system in such a way  
10 that really the consumer doesn't have the benefit of these  
11 new opportunities under REV. And that, I think should be the  
12 topmost criteria in terms of offering new services.

13                      MR. HENRY: Thank you.

14                      MR. WAGGONER: Hi, I'm Danny Waggoner for  
15 Advanced Energy Economy Institute. I have a couple quick  
16 points.

17                      One is regarding -- I heard something about  
18 utilities being able to negotiate prices for value added  
19 services. And to me, that could become problematic if you  
20 have, you know, one utility, one provider.

21                      You have lots of third parties, you could  
22 sort of create discriminatory relationships and maybe you  
23 could still have value-based pricing, but it could be  
24 transparent and non-discriminatory. So you list a price. It  
25 may not be cost based but you list a price and so that way  
you could, you know, avoid that potential problem. You

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2 wouldn't be able to negotiate prices, but you could still  
3 potentially have a base pricing.

4           And I wanted to compare the AEEI position and  
5 the SEIA position. I don't think that there's really that  
6 much difference. There may be just a little bit of  
7 difference in the definitions. I -- I think that -- you tell  
8 me if I -- if I'm not comparing them correctly. But I think  
9 both groups are not for competitive services such as data  
10 services, engineering, et cetera, things that could be  
11 provided by the competitive market. The AEEI and its New  
12 York position does allow for some potential for value-added  
13 services leveraging the existing utility customer  
14 relationship.

15           And that's where we see that, yes, you could  
16 have a third party or some unrelated group do advertising and  
17 help originate customers. It just wouldn't be as effective  
18 instead of if you used a utility. And so that's where the  
19 value-added platform services come in.

20           Is that accurate?

21           MR. UMOFF: Yeah, I think that's -- I think  
22 that's a pretty fair characterization. I think we're still  
23 fairly conservative on our perspective on the value-added  
24 services that the utility should be providing given the early  
25 stage of this REV process.

          MR. NACHMIAS: I would just comment, Danny,



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2           that -- that I -- I think you're right in terms of the value-  
3           added pricing. I think we need to talk more about, you know,  
4           what process we'd have to identify what that pricing ought to  
5           be. And with respect to the -- the value-added services, I  
6           also agree with -- with what you're saying.

7                         The one clarification I'll say and it's in a  
8           separate kind of set of technical conference, the data  
9           sharing and the data piece is sort of, I think, another area  
10          where more work is just ongoing.

11                        MR. HENRY: Thank you.

12                        MR. FULLER: Hi. Pete Fuller with NRG. And  
13          like many here, I think, today I was not prepared for this  
14          level of violent agreement on this panel. And I may share in  
15          some of it, frankly.

16                        But I think -- let me offer sort of my  
17          articulation of what I think I've heard or what I've sort of  
18          synthesized and I'd appreciate your reactions to it. And I  
19          think, Stu, you -- probably your -- one of your points was  
20          probably the most valuable to me today was if we didn't have  
21          this thing called market-based earnings but we just talked  
22          about platform service revenues that might be priced  
23          differently, maybe it all, maybe it makes more sense.

24                        So what I would like to offer as a suggestion  
25          to think about is if we start from the premise that the --  
                what we are talking about this stuff is things that are

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2 really uniquely the province of the regulated entity. For  
3 whatever reason the services and the products we're talking  
4 about are only those that can come from -- because of the  
5 utilities' position, it's asset based and so on and so forth.  
6 That's one of my premises.

7                         And then the second one is that where it is -  
8 - well, the -- the -- the question of pricing really becomes  
9 the issue then. And I guess I would ask for your thoughts on  
10 the points that are -- or the exploration that's been had  
11 about, you know, could you negotiate a price, Peter, or -- or  
12 what have you or -- or is there some other way to price.

13                         I think the example of the pipeline or  
14 renting space on a pole for somebody to attach or -- or  
15 something like that, I think that's a good analogy of using  
16 or -- or gaining revenue from otherwise unused assets. I  
17 think it gets much more complicated when you talk about  
18 having Staff that otherwise would be doing something for the  
19 ratepayers directly, doing something for a paying customer  
20 off to the side.

21                         And so, I guess, I'd like to get your  
22 reaction to my first premise about things that are uniquely  
23 available to the utility. And then just maybe explore a  
24 little bit the challenges of different types of services that  
25 might come along and whether there are actual markets for  
them or whether there are one-off requests from NRG to

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2 National Grid. Can you do X and how do we settle on a price  
3 and in the vacuum like that?

4                   MR. ZSCHOKKE: Well, I'll address the pricing  
5 issue. I mean, you know, I threw out the construct earlier  
6 simply because there is no structure right now for how we  
7 would do this. So -- and that's -- these are the  
8 considerations we have to have.

9                   We want to promote the market but at the same  
10 time want to get the revenues. And -- and the question is  
11 how do you maximize those revenues. Do you want to maximize  
12 the revenues? Because Pete, you're perfectly right. I mean,  
13 we will have people who will be working on the market element  
14 that could be doing utility work regularly. And so if  
15 they're not doing utility work, we'll have to have people  
16 doing the utility work. So that's a cost that has to be  
17 recovered preferably from the platform service revenues first  
18 and then whether or not there's anything added over.

19                   And that's all stuff we are going to have to  
20 work through as we go through this process and we see what  
21 the real offerings are, what it takes to offer them, and what  
22 we perceive as the market acceptance of those, which the  
23 utilities have mentioned in their comments.

24                   I mean, I've heard a lot of people say we  
25 just don't want to pay for it, which means the market  
platform service revenues for some things would be zero. So

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2 what -- does that mean we go forward with certain constructs  
3 to -- because we think it's a good idea? Or do we then say  
4 no, we're going to have our fee anyway because we think  
5 that's important to see what would happen?

6                       And if we get revenues out of it, do we then  
7 adjust it based upon our experience or do we keep it the way  
8 it is? Or if we don't get revenues from it, do we then  
9 adjust the -- the prices out? That's all something we have  
10 to learn as we go forward in this process.

11                      MS. REYNOLDS: So I guess I'm just going to  
12 reiterate that the -- that the prices would have to be non-  
13 discriminatory and transparent even if they weren't strictly  
14 based on cost of service. But you mentioned in there do you  
15 want to maximize revenues as one of the questions. And I --  
16 and I would hope that the answer to that is not always no.  
17 Because if the overarching goal here, at least one of the  
18 important ones, is to grow the DER market. So you wouldn't  
19 want to set the prices -- well, maybe maximizing revenue  
20 would do that in some cases. See how I just came to that  
21 point?

22                      MR. NACHMIAS: That was my point. Maximizing  
23 revenue doesn't mean maximizing price.

24                      MS. REYNOLDS: Right.

25                      MR. NACHMIAS: It means a fair price that  
people would then use this service.

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2 MS. REYNOLDS: I was going to give one  
3 example of drawing a line between -- between what could be a  
4 platform service revenue that's value added and a competitive  
5 service. So because you mentioned that data analytics.

6 So we were -- you know, we've discussed it  
7 internally amongst our member companies and we're thinking  
8 that a good place to draw the line would be that because that  
9 is -- you have access to that data as a function of being a  
10 monopoly and you could provide that on the cost of service  
11 basis to DER providers. If you then did data -- and -- and  
12 analyze that data too, you know, not just the raw data.

13 If you then though are providing that  
14 directly to customers, that could -- that's a competitive  
15 service that a third party could offer so that in the near  
16 term that you'd be restricted from that particular market  
17 segment and be limited to the first example because that's  
18 something that can foster the DER market.

19 MR. NACHMIAS: Yeah, I guess it depends and  
20 this will evolve overtime, right. So it's not perfectly  
21 clear. But I think initially, right, there -- there's  
22 certainly data and information that we want to provide to  
23 customers so that they then are interested in engaging and  
24 managing their energy usage and engaging with third parties.

25 At what point, you know, might third parties  
-- you know, I think third parties would always be, you know,

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2           once they get the sale and they're working with the customer  
3           would be able to do more. Maybe they take data that -- that,  
4           you know, the customer authorizes to be given to or sent to  
5           or sold to the third party and then the third party sort of  
6           packages that up in a new way where they're providing, you  
7           know, additional value to the customer.

8                         So I think this is going to evolve, but I  
9           think what is clear is that the utilities have sort of a  
10          platform ability to help engage the third parties and -- and  
11          -- and customers. And what's what we ought to be doing.

12                        MR. MAGER: I guess I just want to add. You  
13          know, we prefer a more cost-based approach for monopoly-type  
14          products and services. If -- if the Commissioner likes to go  
15          with a value-based pricing, I agree with the prior speakers  
16          that it needs to be transparent and -- and non-  
17          discriminatory.

18                        The idea that -- you know, that -- that the  
19          utilities are going to provide a product or service based on  
20          their monopoly status using investments funded by customers  
21          and charge, you know, Company A 1,000 dollars, and Company B  
22          2,000, to me, does not make sense and is inappropriate.

23                        In terms of cost of service, I want to be  
24          clear that what we think of as cost to service would include  
25          a reasonable allocation of the utilities' employees, the --  
                the -- a reasonable allocation of the cost of the -- the

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2 infrastructure, the DSP system needed to provide the service.

3 But you know, I guess, I still had -- I still  
4 think there's a slippery slope involved where you have the  
5 customers funding all of the utilities' investments, all of  
6 the equipment, all of the labor, all of the time, and it cost  
7 them 1,000 dollars to provide a service and the utility gets  
8 to decide whether it -- whether they charge, you know, the  
9 1,000 dollars or, you know, 1,000 dollars plus some return or  
10 2,000 or 3,000 or 4,000, especially when, at the end of the  
11 day, whatever they charge is going to be a cost borne by the  
12 customers who -- who funded the service being -- the  
13 utilities being in a position to provide that service.

14 I don't have a -- I don't have an issue with  
15 value-based pricing where it's a more competitive service  
16 that could be provided by other parties in the marketplace.  
17 But when it's a truly monopolistic service, I think there are  
18 pitfalls that -- that need to be avoided.

19 MR. NACHMIAS: I got to say I think we would  
20 agree with you that -- that -- that it ought to be done  
21 through the regulatory process and it ought to be transparent  
22 and we ought to set the prices based on some fair way to do  
23 that. And it could be that there's stakeholder input in that  
24 and different -- you know, different entities say this is  
25 what the value is and we have some sort of process and come  
up with what might be a value pricing.

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2 So this is a new area for all of us. But and  
3 I -- I think I would agree with the go slow. I sort of -- I  
4 sort of chuckle at myself that I said to Anne do you really  
5 think that we're going to really go so fast. But you know,  
6 we ought to sort of go slow and have the right process with -  
7 - with the regulators and -- and all stakeholders having  
8 input.

9 MR. HENRY: Okay. We're running low on time.  
10 I just want to make sure we've got time for maybe one more  
11 question and then I'd like to give you folks an opportunity  
12 to make some closing remarks.

13 MR. MYERS: All right. I -- don't look away,  
14 Mike.

15 MR. MAGER: Please don't get in trouble here.

16 MR. MYERS: Yeah, don't get me in trouble.

17 I just -- I want to try to make this a  
18 specific question. I think we use the term platform in this  
19 proceeding really generally and broadly, and we need to get  
20 more precise about what we're talking about. I'd like to  
21 sort of build on a path that Anne was taking.

22 That is separate the DSP operational  
23 functions and all the things that individual utility DSPs  
24 might have to do and just think about platform markets in  
25 general, like Craigslist or Yelp or --. And one of the  
biggest problems in those markets -- one of the biggest



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2 issues in those markets is called the chicken or the egg  
3 problem, getting it started.

4                       And that's one of the things that REV's  
5 trying to do is -- is create or enable transactions that are  
6 not enabled under the current system. So it's not -- we  
7 think governments and utilities are going to come up with  
8 wonderful innovative products that people haven't thought of  
9 and -- and going to sell them. It's -- what do we,  
10 government and utilities, how can we enable the two-sided,  
11 multi-sided markets that are growing elsewhere in the economy  
12 to happen here.

13                      And -- and, you know, if you think about how  
14 Craig started Craigslist or whether Yelp or Adobe, where they  
15 get their revenues, they don't get their revenues really from  
16 selling products. It's other people saying aha, I can make  
17 money, and other people saying oh, that's something I always  
18 wanted to get. And Google and Craig are just sitting in the  
19 middle raking a rent.

20                      But in order for those to get going, the  
21 multi-sided market economics are very different from the  
22 ones, Mike, you and I are used to. And we're all very good  
23 about dividing a pot. But one thing that utilities and  
24 governments are not good at, at all, is growing pots. We  
25 aren't. You know, it takes entrepreneurs. It takes people  
taking risks. You know, it takes Craig starting with his

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2 friends and neighbors and rock groups and finally building up  
3 to something that people are willing to pay for.

4                   And subsidizing, that is non-cost pricing on  
5 one-sided market to grow network economies on the other side  
6 of the market. So my question finally for you is -- is there  
7 room for new testament in your -- your six commandments are  
8 definitely fundamental to the old testament.

9                   And yeah, I do want to want to see -- so is  
10 there -- is there a way that you could see to yes, we might  
11 be able to enable this -- all these transactions that aren't  
12 currently happening, but to do it, we need to start with a  
13 group of monopolists that perhaps don't risk their money but  
14 maybe take a rake because the benefits are not being had but  
15 could be had if we only just get pass this chicken or the egg  
16 problem.

17                   MR. MAGER: There was a lot -- a lot in  
18 there. Some I agreed with. Some I -- yeah, I'm having  
19 trouble focusing on -- on the actual question.

20                   MR. NACHMIAS: Is there a new testament.

21                   MR. MAGER: I will take that back and  
22 consider whether to supplement or revise my six commandments.  
23 I'm going to rest on the seventh day.

24                   But I -- you know, all the examples -- all  
25 the examples you cited involved private investment and so  
we're -- we're -- so we're -- we're trying to figure out

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2 what's the best way to take something that happened in the  
3 private sector where -- where the companies that are -- have  
4 provided the access and are reaping the benefits also spent  
5 all the money and took all the risk. And so now, we're  
6 trying to figure out what's the best way to apply it to, you  
7 know, PSC regulatory world.

8                       And so it's -- you know, so now you have  
9 customers who are under certain proposals providing all the  
10 money and taking all the risk, yet all the decisions and some  
11 of the additional profits are going to go to the parties that  
12 are not taking any risks whatsoever. And so, you know,  
13 fundamentally, I think there is some difficulty there.

14                      And so the question is how much -- how much  
15 money and how much flexibility should we accord a utility  
16 that's not willing to invest any of its own money. And  
17 that's -- it's a really challenging question.

18                      You know, I -- I certainly feel safer when  
19 we're talking about monopolistic goods and services that only  
20 the utilities can provide.

21                      I -- I confess I have a comfort level in  
22 cost-based ratemaking and cost-based pricing. And, you know,  
23 maybe -- maybe in the future, if this thing gets off the  
24 ground and we're able to learn from our experience, maybe at  
25 -- at some future time it would -- it would make sense to,  
you know, loosen the reins a little bit and try different

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2 things.

3 But to come out of the gate changing  
4 everything, you know, and letting -- letting the DSP provider  
5 act more like a private entry that's funded by a totally  
6 separate captive body of customers is alarming to me.

7 I just -- I have concerns that a lot of money  
8 is going to spent to develop the capacity to provide certain  
9 goods and services and then if they are priced too high, the  
10 revenues wouldn't be there and the only ones who are going to  
11 lose out are going to be the customers who funded it from day  
12 one.

13 I hope that was responsive, but if not we  
14 could chat afterwards because I -- I might have lost some of  
15 the -- some of what you're getting at.

16 MR. HENRY: Well, thank you all very much for  
17 answering the questions. And now, as I said, I'd like to  
18 give the opportunity to, you know, if you've got one or two,  
19 you know, important takeaways that you want us all to  
20 consider before we depart from this discussion, now is your  
21 opportunity to -- to share those.

22 MR. MAGER: I'm going to give Peter back my  
23 time because I think if I say anything, I'll just be  
24 repetitive with what I've already said.

25 MR. ZSCHOKKE: So I know I get everybody  
excited by value-based pricing being able to negotiate and

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2           extracting huge monopoly rents from third parties. However,  
3           utilities have been very clear and it's been very clear in  
4           this docket, we don't expect to get a lot of monopoly rents  
5           from third parties. Everybody is saying there's no -- they  
6           don't want to -- they'd prefer to get it as cheap as  
7           possible.

8                           And every avenue we've said -- and every  
9           informal discussion or whatever, you get the same thing and  
10          even in comments before the PSC. And that's the utilities'  
11          concern. It's Mike's concern.

12                           We're going to put money on the table to  
13          build something and it's going to take time for that  
14          something to develop into something that is financially  
15          capable of supporting itself, if ever.

16                           And, you know, that's -- so from our  
17          perspective that's going to be a tough challenge for the  
18          utilities, the regulators, the third party providers, the  
19          customers, how we actually go forward doing that because the  
20          last thing we want is to be in a docket trying to get cost  
21          recovery with Mike and him saying that's the -- that's the  
22          REV market, they pay for that so the customer shouldn't pay  
23          for that.

24                           That's not a good day for us. It's not a  
25          good day for the policy of the State of New York. And so  
                that's something we have to all wrestle with and keep in mind

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2 as we go forward. How are we going to make this work and how  
3 we're going to pay for it effectively across all customers,  
4 including those who get advantage by taking -- participating  
5 in the new market?

6                   MR. NACHMIAS: We want to facilitate the  
7 future. We're making investments to do that. We need to do  
8 that regardless of REV because technologies are advancing and  
9 so things like AMI, things like developing the DSP, those  
10 technologies are advancing regardless.

11                   How we can use those technologies to -- to  
12 benefit and work with third parties to benefit customers is  
13 what we're trying to do. And how would it be fair to try to  
14 collect revenues that recognize that value and benefit  
15 participating and non-participating customers, I think is  
16 what we're talking about and what we should be talking about.

17                   MS. REYNOLDS: I like this part because it  
18 seems like a political debate. Makes me want to say lockbox  
19 or something like that. So our message was platform service  
20 revenues, yes. Other competitive services, no, not yet.

21                   MR. UMOFF: Yeah, I think that's -- we'd  
22 generally agree with that. I think one thing we acknowledge  
23 -- acknowledge, I think is important to acknowledge is  
24 getting started here is going to be the hardest part. So we  
25 really think laying the good groundwork of developing a  
neutral platform should be the focus in the short term,

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2 moving iteratively and cost-based revenues from monopolistic  
3 services and really just giving the competitive market a  
4 chance to develop here while keeping the big picture in mind  
5 which is robust DER market.

6                           And I'll leave it at that.

7                           MR. HENRY: Thank you all very much.

8                           MR. OLMSTED: We'll take lunch until about  
9 12:45.

10                           (A luncheon recess was taken.)

11                           MS. NEVILLE: Okay. Good afternoon,  
12 everyone. My name is Peggie Neville and I'll be moderating  
13 the Energy Efficiency Panel. And having been granted the  
14 much coveted after-lunch timeslot, we will try our best to  
15 give you a lively panel discussion and keep everyone engaged  
16 and awake.

17                           So let me start off by introducing our  
18 panelists. We have Rich Sedano from the Regulatory  
19 Assistance Project, Tim Woolf -- not in the order that you  
20 sat -- so Tim Woolf from Synapse on behalf of the Clean  
21 Energy Organizations Collaborative, Gayl Pensabene from  
22 National Grid, John Zabliski from NYSEG-RG&E, and Matt  
23 McCaffree from Comverge.

24                           So to start us off, I'd like to provide a  
25 very brief summary of what the Staff white paper included for  
an energy efficiency EIM. Staff's proposal attempted to

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2 recognize the meaningful contribution that energy efficiency  
3 can and currently does contribute to peak megawatt savings  
4 through permanent load reductions.

5           The suite of clean energy programs operating  
6 in 2015 provided an estimated 425 megawatts of annual peak  
7 savings. Even though peak megawatt reduction was not a focus  
8 of the predecessor EEPS programs, this 425 megawatts includes  
9 approximately a 185 megawatts through the old energy  
10 efficiency programs known as EEPS.

11           The proposed EIM sought to recognize this  
12 contribution and establish that a minimum of 10 percent of an  
13 incremental megawatt target be achieved through energy  
14 efficiency. Upon review of the parties' comments and  
15 additional conversation amongst Staff, we developed a series  
16 of questions that you all saw on the notice for today's  
17 technical conference that expanded a little bit and opened up  
18 the conversation somewhat.

19           So our panelists here have reviewed the  
20 questions and we'll kind of operate our panel as I think many  
21 of the other ones have in walking through the questions that  
22 were posed in the notice. And then we will allow for plenty  
23 of time for audience participation with question from you all  
24 and hoping to have a little bit of a give-and-take and  
25 ongoing dialogue.

          So with that, let's get started with the





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2 objective that thinks about how much we want to achieve from  
3 every means and hold the utilities accountable for gross  
4 savings, then what we begin to do is -- is create an  
5 opportunity for utilities, not only through their own  
6 programs, but through every way that they can facilitate and  
7 enable activities of others to accomplish savings.

8                       So we can still have, of course, net  
9 attributable savings targets and even EIMs associated with  
10 them, but using gross opens up an opportunity for third party  
11 success to count for something and for the utilities to be  
12 rooting for that success in the process. So as some in the  
13 energy efficiency field, I think, subscribe to the idea that  
14 there are more savings if the community can combine together  
15 and say we all did it.

16                      Now a demand reduction EIM could be applied  
17 to a customer class or a location of particular interest or  
18 value, and that's not a problem. Another point to think  
19 about here is the distinction between a single-year approach  
20 and a multi-year approach. And between a -- so thinking  
21 about that, cumulative approaches across multi-years allows  
22 for slow gestating -- longer gestating programs and market  
23 transformation to count.

24                      So I think in -- in summary, I think what  
25 this question offers is the opportunity to open up some --  
some new potentially controversial ideas to think about gross

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2 savings, longer lived measurement tracks, and more -- more  
3 surgical EIMs that identify strategically where the state  
4 wants to see success.

5                           And I'll stop there.

6                           MS. NEVILLE: Great. Thank you, Rich.

7                           Tim, you want to take this next?

8                           MR. WOOLF: Sure.

9                           MS. NEVILLE: And shall we call something up  
10 for you here?

11                          MR. WOOLF: In just a minute.

12                          MS. NEVILLE: Okay.

13                          MR. WOOLF: So is this on? Can you hear me?

14                          Okay. I'm going to start with opening  
15 statement because it's important to have some background for  
16 my -- my following comments. Clearly, energy efficiency EIMs  
17 are absolutely essential to achieve the Commission's goals.  
18 There's no question about that in my mind. And these --  
19 sometimes they're called performance incentive mechanisms.  
20 Sometimes they are called shareholder incentives. They're  
21 used all over the country for this purpose. And there's a  
22 long history there we can -- we can learn from.

23                          Now without question, the most important  
24 element in an EIM is the target, the goal that you want to  
25 achieve. It's extremely important because it gives the  
companies direction as to what the Commission's expecting and

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2 is the basis for the financial incentive. It's absolutely  
3 essential.

4                       Now, as you know the Commission, just this  
5 week, issued savings targets for NYSERDA and the utilities.  
6 Unfortunately, in our view, and I'm speaking mostly on behalf  
7 NRDC and PACE, but also the clean energy organizations in  
8 general.

9                       The targets that came out of the order this  
10 week are woefully inadequate for the job. They're not going  
11 to achieve the goals that the Commission has set up for this  
12 whole process. Actually, my first slide helps to make this  
13 case, yes.

14                      So I have on the slide energy savings as a  
15 percent of retail sales. It's a familiar metric we use to  
16 compare across different size states. And I show what's  
17 happened in Massachusetts over the past several years and  
18 Rhode Island. Then I compare that to New York. And New York  
19 is the lower line. You can see why we're concerned about  
20 these targets.

21                      Now I mentioned Massachusetts and Rhode  
22 Island not just because they're leaders in the country and  
23 not just because I work there a lot, but also because  
24 National Grid serves those states. They serve all of Rhode  
25 Island and they also work in -- in New York. So there's no  
reason they can't do the same thing here.

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2 So the reason that -- well, I'll add that  
3 these states are able to do this without REV, without  
4 complicated estimates of LMP plus D at the -- at the local  
5 level for every circuit, you know, without a DSIPs that might  
6 take a long time, without, you know, adding in additional  
7 benefits in terms of environmental benefits. They've done  
8 this with -- without all of that.

9 The way they have done it is through solid  
10 regulatory policies for many years. They've done it through  
11 earnings incentive mechanisms that have been, I think, very  
12 successful and they've been honed over the years as they  
13 learned lessons. There's also a lot of stakeholder input  
14 there. And the targets they set are very aggressive and  
15 that's how the utilities get there.

16 Now the Commission has been very clear that  
17 these targets are only part of the solution, and that it's  
18 undertaking many initiatives to help engage third party  
19 vendors and to get additional market forces to -- to do the  
20 rest of the job, and that this would be done at lower cost to  
21 customers.

22 Now, this is a laudable goal. I think this  
23 is great. There are many ways that third party vendors can  
24 help lower cost to customers. However, the pursuit of market  
25 solutions must be based on lessons learned from the past.  
And these lessons clearly demonstrate that there's limits to

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2 how much the markets can do.

3 So in our view, what the Commission is doing  
4 here, they're taking a huge risk with this approach. It's  
5 essentially betting on market solutions to do half the job of  
6 securing the most important, the lowest cost resource  
7 available to New York. It's a bet that -- they're betting  
8 that it's going to be able to start doing it this year.  
9 That's a bet I would not take.

10 Now I have a lot more thoughts about market  
11 and their role in this whole process, but for the sake of  
12 time I'm going to hold off and -- and get to those as we get  
13 to the later questions.

14 MS. NEVILLE: Great. Thank you, Tim.

15 Gayl?

16 MS. PENSABENE: Hi. My name is Gayl  
17 Pensabene; I'm from National Grid. To the right of me is  
18 John Zabliski, from NYSEG-RG&E. And together, you know,  
19 we'll discuss EE from the utility perspective. We'll  
20 complement each other with our prospect -- with our area of  
21 expertise within EE

22 The new Clean Energy Advisory Council created  
23 by the Clean Energy Fund is tasked with developing  
24 recommendations for sustainable market for procuring energy  
25 efficiency as a demand reducing resource.

You know, specifically task two, develop

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2 recommended approach, you know, for a sustainable market, for  
3 procuring energy efficiency, and this proposal -- proposal  
4 should consider, you know, the approach to support the  
5 establishment of energy efficiency standard.

6           You know, this encompasses both the use of  
7 energy efficiency programs to reduce demand and the creation  
8 of a sustainable market. We've received clear guidance from  
9 the CEF order that there needs to be collaboration. And you  
10 know, as the utilities, we look forward to that  
11 collaboration.

12           I think I'll address the second part of this  
13 two-part question as to how an EIM can be improved. An  
14 energy efficiency based demand reduction target should be  
15 simple, transparent, and easily measurable. You know, an  
16 assessment of an EIM through a formal framework which  
17 identifies potential performance categories and metrics,  
18 assesses the importance to REV and the value to the customer,  
19 determines whether the utility has control or influence, and  
20 then implements it as a programmatic or a broader based EIM,  
21 you know, could drive improvements towards achieving policy  
22 objectives that produce long-term benefits to the customers.

23           You know, we know there's significant  
24 differences in how EE is delivered and measured with respect  
25 to demand response, you know, what it is offered. And  
coordination is -- is the key to that process of achieving,

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2 you know, peak reduction through EE And, you know,  
3 coordination can result in cost efficiencies, you know,  
4 across the board.

5 The market would likely respond accordingly,  
6 but in the short term, you know, our programs will have to go  
7 through a transition, you know, with the appropriate redesign  
8 supports REV goals. And you know, I was -- I led the budget  
9 and financial analysis of our current ETIP programs and  
10 that's what those programs are. They're transition programs.

11 So I think, you know, customer engagement can  
12 also play an important role in market growth. And it's  
13 really educating our customers, you know, about energy  
14 efficiency, demand response, and providing value added  
15 propositions to manage that energy.

16 So I think in -- you know, in summary,  
17 program design, coordination between EE and peak demand, a  
18 transition period is important and a framework to assess  
19 metrics or an EIM or score card.

20 MS. NEVILLE: Great. Thank you, Gayl.

21 Matt, would you like to add?

22 MR. MCCAFFREE: Sure. Is this on?

23 My name is Matt McCaffree. I'm with  
24 Comverge. Just to give you a little context, we're a DR  
25 provider and we focus on the mass market. We focus on  
residential and -- and small business. We're the largest



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2 mass market DR provider, DR-EE provider in the country. Over  
3 the history of our company, we've -- we've installed over 6  
4 million devices across the -- in the households and  
5 businesses of 1.8 million customers. And last year alone, we  
6 called -- if you look at individual devices, we called nearly  
7 9.5 million events.

8                       So we absolutely believe that -- that having  
9 a peak reduction aspect to the energy efficiency EIMs is  
10 critical and it's -- I would agree with what was said earlier  
11 that -- that identifying the objectives and the targets is --  
12 is critical to achieving the objectives of -- of REV.

13                      And for -- for us, I think that the main  
14 thing that I'd like to communicate is that -- that a one-  
15 size-fits-all approach for demand reduction or for the demand  
16 reduction portion of the energy efficiency EIM, that one-  
17 size-fits-all approach will not -- will not work. And it's  
18 important to distinguish what the objectives are of that  
19 demand reduction.

20                      So if you have, you know, a behavioral DR  
21 approach on one end of the spectrum versus an event that you  
22 can call immediately, those are two -- those are two  
23 different kilowatts. They're achieving two different  
24 objectives. So it's important to identify how timing is a  
25 piece of this EIM and -- and how -- how that's calculated  
into the -- the returns, either to the third party or -- or

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2 to the -- or to the utility.

3           And also along those lines, it's important to  
4 distinguish how the peak reductions are calculated within one  
5 event. Take, for example, you know, two different types of  
6 approaches. You have a 4-hour event and you have your first  
7 approach where you get, say, a 4-kilowatt reduction in the  
8 first hour, a 4-kilowatt reduction in the second hour, and  
9 then zero in the third hour and zero in the fourth hour. And  
10 then you have a second type of product that has a 2-kilowatt  
11 reduction for each one of those hours.

12           Now, if you average that out, if you just  
13 took an average peak reduction approach for that event, then  
14 they're both the same. It's 2 kilowatt hours. But there --  
15 the first one, in my opinion, is a lot less valuable. It's  
16 less predictable. And you're going to have, you know,  
17 snapback potentially within -- with those last 2 hours or  
18 after the event, versus the second one which is much more  
19 predictable. It's much more level.

20           And I think it's a much more valuable  
21 resource to the system, whether you're using that for energy  
22 efficiency or for some sort of capacity type of product.

23           So -- so we think that that's a pretty  
24 critical detail to get right on this EIM.

25           MS. NEVILLE: Great. Thank you.

          Okay. We're going to move ahead to the

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2 second question posed, which were what are the benefits and  
3 detriments to including an EIM based megawatt hour savings  
4 alongside the proposed EIM related to 10 percent of peak  
5 reduction through energy efficiency? And can two EIMs  
6 targeting megawatts versus megawatt hours coexist in a  
7 productive manner.

8                         So once again, we'll start off of Rich and  
9 then we'll maybe go to Matt next and come back down the table  
10 this way.

11                         MR. SEDANO: Okay. This will be brief. Yes,  
12 they can co-exist. There are states that have both and there  
13 are -- the challenge for the program administrators is to  
14 manage a portfolio of earnings impact mechanisms. And if you  
15 asked them to manage peak and energy savings I believe they  
16 will do that. Since this -- especially since in New York  
17 there's plenty of room for more savings in both categories.

18                         So I think what the EIMs will do is drive the  
19 performance of the program administrating utilities. And --  
20 and to the extent that there are gross savings metrics, that  
21 will drive their approach to dealing with others, as well.

22                         That's it.

23                         MS. NEVILLE: Thank you, Rich.

24                         Okay. Matt, go ahead.

25                         MR. MCCAFFREE: I -- I would largely agree  
with what Rich said. I do think that they -- they can

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2           coexist. And, you know, for us we see the demand response  
3           products that we have and approach that we have is  
4           foundational to energy efficiency, but with the incremental  
5           peak reduction savings that you get through energy efficiency  
6           it works the other way around too. There's -- there's a  
7           complementary role for both DR and EE

8                       MS. NEVILLE: Great. Gayl, go ahead.

9                       MS. PENSABENE: You know, they are  
10           significant -- as I had previously said, there are  
11           significant differences in how energy efficiency and peak  
12           reduction initiatives are measured, you know, how and when  
13           they are offered and delivered to our customers. And so, you  
14           know, one point is a realistic incremental peak reduction  
15           goal should be developed based on the use of a benefit cost.

16                      The portfolio of energy efficiency measures  
17           that can be offered affect how much money the customer and  
18           the utility have available to impact peak reduction  
19           initiatives. For example, residential lighting programs are  
20           measured in terms of kWh. reductions over a broad timeframe  
21           and, you know, would be undermined with proposed energy  
22           efficiency term in -- in terms of peak load reductions.

23                      Measures that would reduce peak may cause  
24           backsliding on kWh. and the state's carbon emission reduction  
25           goals unless additional funding is provided. You know, peak  
          reduction is presently a small dollar value component of the

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2 benefits, and the benefit cost of current programs.

3                         And then, you know, EIMs must be carefully  
4 considered to ensure that they do not inadvertently shift  
5 emphasis from one goal to another. You know, and a careful  
6 balance will need to be struck between the twin goals of  
7 megawatt hours, savings, and peak demand reduction.

8                         MS. NEVILLE: Tim, did you want to respond or  
9 react?

10                        MR. WOOLF: Well, to say I agree with all the  
11 things that have been said. In the world of performance  
12 incentive mechanisms, there's a term called unintended  
13 consequences. And it refers to shining the spotlight and  
14 providing financial incentives on one area and not the others  
15 at the -- at the risk of the others. And I think if there  
16 were not an energy savings target, then you would have -- you  
17 would basically have the unintended consequences of  
18 sacrificing those goals for peak reduction.

19                        But if I may, I'd like to use my next slide  
20 to -- to just make a simple point about how -- right there's  
21 fine -- how this doesn't have to be very difficult.

22                        And again, I'm sort of drawing upon, at a  
23 general level, the EIMs that had been used in Massachusetts  
24 and Rhode Island for -- for many years now. They've evolved,  
25 but that's kind of where they've come out. And it's quite  
simple. You have your target and the target can be defined

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2 as energy, could be defined as megawatts, peak demand. It  
3 can be defined as shared savings. It can be defined as all  
4 three of them.

5                       And you want to start with the thresholds.  
6 So you don't want to give them money for very little work,  
7 but you want to have at some point they start to get an  
8 incentive when the savings become meaningful. Then you have  
9 your target and then you might want to have a cap at some  
10 point. And you want to have some kind of increasing  
11 financial incentive between the -- the threshold and the cap.  
12 It's fairly simple. And then you can have your incentive.  
13 That's the Y axis there. How much dollars do you provide?

14                      And there's a lot of ways to do that, but  
15 what I found over the years is if you set it on the base --  
16 basis of how much energy efficiency is spent, how much  
17 dollars is spent on it, then you've got a nice connection to  
18 the spending and the incentives so that the incentives are  
19 likely to get way out of whack with the spending in either  
20 way.

21                      And so the concept here is that the  
22 ratepayers would be paying anywhere from 4 to maybe 10  
23 percent more than they would otherwise, but in return they're  
24 going to get a whole lot more benefits from the program  
because the utility is pushing it just that much harder.

25                      So I just throw this out there to make the

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2 point that EIMs can be fairly simple and probably should be,  
3 and they should be thought through to make sure that we don't  
4 have this unintended consequence of one area of getting more  
5 attention than the other.

6                   MS. NEVILLE: Thanks, Tim.

7                   I just want to clarify for myself and perhaps  
8 others. When you referenced basing it on the dollar spent,  
9 you're talking about the financial incentive as a relation to  
10 the dollar spent on energy efficiency, not the -- the metric  
11 you're measuring is the money spent or did you mean the  
12 latter?

13                   MR. WOOLF: So that's a good question. What  
14 I mean by that is if a utility, just pick one, Con Ed has  
15 100-million-dollar energy efficiency program, then it would  
16 eligible for 6 million dollars as the incentive if they were  
17 to meet their target.

18                   MS. NEVILLE: And the target is based on  
19 something other than the financial spent?

20                   MR. WOOLF: Yes. Oh, yeah, the target is  
21 based -- that's key.

22                   MS. NEVILLE: Right. That was what I wanted  
23 to make sure --

24                   MR. WOOLF: That's very important.

25                   MS. NEVILLE: -- that you weren't talking  
about spending.

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2                   MR. WOOLF: Targets based up on megawatts,  
3 megawatt hours, net savings, yeah.

4                   MS. NEVILLE: Got you. Okay. Thank you.

5                   Okay. Amanda, could you go back to our  
6 slides on questions?

7                   We'll now turn to the third question which  
8 was how could an EIM be structured to reward or penalize the  
9 accuracy of energy efficiency savings claims?

10                  Rich?

11                  MR. SEDANO: I was interested in this  
12 question because I was trying to figure out at the beginning  
13 if it was a problem if -- if the utility achieved too much  
14 energy efficiency. I never really heard of that as being a  
15 problem.

16                  What I would say is that in those places that  
17 have some sort of incentives for efficiency, you can either  
18 have a shared savings approach, which I don't tend to like  
19 because it puts a lot of pressure on the EM and V process, or  
20 you can have a threshold level that -- that where you earn a  
21 significantly -- a significant incentive over the target.

22                  So remember we're -- we're talking about EIMs  
23 that are motivating behavior beyond the standard. We -- we  
24 might want to set the -- the target at some level above that,  
25 but we might want to set a series of targets for a series of  
steps of performance above that so that if -- if you're wrong



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2 because you did a fabulous job, well, there might be some  
3 additional reward available for -- for being wrong that way.

4                       Now if we're being wrong down, I think the  
5 current system has a penalty for that. And I think that that  
6 has to be used very judiciously. And so I'm a fan of dead  
7 bands around the target where, if there is some reasonable  
8 error around the target, either up or down, that there's no  
9 action taken, that -- that -- that the -- any penalty would  
10 be imposed if the deficiency were -- were big enough and that  
11 would -- that would define the size of your dead band.

12                      But I think that programs can and should be  
13 managed so that the -- there is a full array of -- of  
14 positive and negative outcomes that the program administrator  
15 is seeing and that it has the full opportunity to -- to -- to  
16 achieve as high or as low as their corporate decisions  
17 motivate.

18                      Hopefully, the EIMs will motivate -- in my  
19 view, hopefully, will motivate high achievement, but that  
20 there should be the full range of possibilities available.

21                      MS. NEVILLE: Thanks.

22                      I'll give Gayl a heads-up. I'm going to go  
23 to her first, but I just want to give a little bit more  
24 context to this particular question based on Rich's comments  
25 is that inherent and kind of a -- I think we're trying to get  
at what this question is there are some folks out there that

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2           may be skeptical as to the realness of the energy efficiency  
3           savings and can they really be counted on as a DER out there  
4           in the field.

5                           And so kind of what we're getting at there is  
6           -- is there an ability to look at accuracy of savings claims  
7           and kind of that's more of the context.

8                           So Gayl, we'll let you go from there.

9                           MS. PENSABENE: Okay. Thank you.

10                           Well, two components of structuring an EIM to  
11           reward or penalize energy efficiency savings claims are  
12           really the ability to quantify and measure the energy and the  
13           demand impacts. You know, traditionally, energy efficiency  
14           programs have primarily been focused on reducing customer  
15           usage through kWh. and the installation of energy efficiency  
16           technologies.

17                           The focus on energy efficiency impacts has  
18           really driven the evaluation priorities to emphasize, you  
19           know, estimating the kWh. savings that result from the  
20           programs.

21                           You know, quantifying peak demand impacts  
22           have not been an EM and V. focus and, you know, there is  
23           additional challenges related to the availability, the cost  
24           of collecting and, you know, the application of estimating  
25           peak demand impacts, you know, in the energy efficiency  
          programs. Demonstration projects will provide an

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2 opportunity, you know, to test the market, to gather data  
3 information, learn, and adapt, you know, and construct  
4 positive programmatic incentives based on actual experience.

5                       And -- and what I mean by this is that, you  
6 know, the information obtained from the demonstration  
7 projects will help to construct the incentives to really  
8 validate those energy efficiency savings.

9                       MS. NEVILLE: Okay. Tim, do you want to go  
10 next?

11                      MR. WOOLF: Sure. I don't see this topic of  
12 EM and V. as really being high enough priority for EIMs.  
13 Actually it's a very high priority, but we have, all across  
14 the country, a lot of experience with protocols for how to do  
15 EM and V. And the DOE is picking this up with the uniform  
16 methods project you're familiar with. So there's a lot  
17 that's already out there. And I think the utility can be  
18 held to those protocols without having to give them an EIM to  
19 do so.

20                      And I would add, there's a -- there's a  
21 danger there and this is true with any performance incentive  
22 mechanism, you want to make sure that the benefits outweigh  
23 the costs. And, you know, if the utilities are given an  
24 incentive to improve accuracy, they may spend lots and lots  
25 of amount of money to get more accuracy when more accuracy  
isn't really needed or certainly isn't worth the additional

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2 cost. So there's a -- there's a real danger there.

3 I do think that if the utilities intend --  
4 start relying more and more on third party vendors, then we  
5 may need to think of a more comprehensive protocols and maybe  
6 more independent verification of those.

7 And so there may be, you know, innovative  
8 ways to cover this topic. I still don't think even there you  
9 need an EIM.

10 Finally, I'll make one point about penalties.  
11 I'm not a big fan of penalties for energy efficiency  
12 activities because it creates a very negative signal that can  
13 create ill will with the utilities. I think penalties are  
14 warranted in some places, but I think they should be reserved  
15 for places where there's like really gross mismanagement or  
16 imprudence because we want -- you know, we want this to be  
17 seen as in the utilities' interest and a part of their  
18 business plan. So they should be used with caution.

18 MS. NEVILLE: Thank you, Tim.

19 Matt?

20 MR. MCCAFFREE: I'm -- I'm largely going to  
21 agree with -- with what you just said, Tim. But the issue  
22 that I have -- that I have more often than not with -- with  
23 some evaluations on energy efficiency programs, especially in  
24 situations where there is a dead band, is -- you know,  
25 there's all this time and money, quite frankly, spent on, you

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2 know, measuring with a micrometer when you're cutting with a  
3 chainsaw.

4                       So I think that the opportunity here in New  
5 York is to look at ways that the evaluation process can  
6 actually innovate alongside these programs. There are great  
7 opportunities for -- for working alongside some of the  
8 program implementers, whether they're utilities or they're  
9 third parties like Comverge, to understand what kind of data  
10 they have.

11                      So that would help -- A, it would help  
12 optimize the program, and B, it would help with a more timely  
13 evaluation because I think that that's really important. I  
14 think the timing of -- of these results is critical to, you  
15 know, set the -- set the future course for the utilities and  
16 for some of these programs.

17                      MR. SEDANO: Peggie, could I say something?

18                      As you would re-clarified the question, this  
19 is some -- the question that is sometimes asked in more blunt  
20 ways, is energy efficiency real. And sometimes from the  
21 point of view of looking at utilities what you see is capital  
22 plans that don't seem to change despite there being savings  
23 or forecasts that don't seem to change despite energy  
24 efficiency savings.

25                      And I think that this is part of what  
underscores the interrelated parts of REV with the DSIP plans

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2 and other elements of REV tying together. I think it's  
3 important to see feedback from energy efficiency savings in  
4 capital plans and in forecasts so that then you can see how  
5 energy efficiency is actually affecting future operations  
6 and, over -- over years, accumulating really distinctly  
7 different future.

8                       So in addition to what has been said about --  
9 about the evaluation process, which I agree with, I think  
10 there has to be this feedback where you can see what's  
11 happening. In a different context, ISO New England reports  
12 that the effects of energy efficiency and demand response, in  
13 their forward capacity market, has saved hundreds of millions  
14 of dollars of avoided transmission facilities.

15                      And that's because they keep track of what  
16 was posted and then what is taken down because of the success  
17 of these -- these other -- other resources. I think we need  
18 to keep score like that so that we can affirmatively answer  
19 that question and address any doubts that people might have.

20                      MS. NEVILLE: Great.

21                      Okay. We will move along to question four.  
22 How could an EIM or score card metric be structured to  
23 support increased third party delivery of services through  
24 sustainable business models and how could this be measured?

25                      So again, we'll start with Rich and then  
we'll go down at the end of the table and come back.

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2 MR. SEDANO: So this restates something that  
3 we already discussed. I think that if we want third parties  
4 to have -- be motivated here, we need to think about gross  
5 savings targets for energy efficiency that encourages  
6 utilities to motivate others to achieve overall savings and  
7 makes utilities partners with third parties and -- and  
8 cheerleaders for them.

9 We can have targets for kilowatt hours and  
10 kilowatts, as we've talked about before. And I think it's  
11 also useful to think about the many different things that  
12 energy efficiency accomplishes.

13 This panel seems to be focused on EIMs just  
14 for energy efficiency. But when we think about the score  
15 card and the portfolio of EIMs that we're likely to have in  
16 New York, many of those are potentially going to be motivated  
17 by energy efficiency success, lower carbon, lower cost, lower  
18 line losses. So we might see EIMs that are promoting energy  
19 efficiency all across the array of portfolios. And -- and to  
20 that extent we will see support for efficiency throughout the  
21 EIM system, not just in those EIMs that are focused on energy  
22 efficiency.

23 MS. NEVILLE: Great. Thank you, Rich.

24 Matt, go ahead.

25 MR. MCCAFFREE: You know, I'm going to go  
back to my -- to my point about timing. And I'm -- you know,

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2 I've long been an advocate for energy efficiency and the --  
3 the overall benefits that it provides, system-wide benefits,  
4 the economic benefits. And it's great to have energy  
5 efficiency programs that just reduce overall usage.

6 But when we're thinking about the world that  
7 -- that REV is trying to proactively address with -- with  
8 more intermittent resources, with more distributed resources,  
9 I think that the timing of those savings is -- is very  
10 important. And incorporating that into some sort of score  
11 card metric for the program implementers will be very useful,  
12 not just in the immediate term, but as more of these  
13 resources come online. I think it's going to provide an  
14 overall system wide benefit.

15 MS. NEVILLE: Okay. Great.

16 Gayl?

17 MS. PENSABENE: Yeah. And -- and we -- we  
18 agree with that. We think the metric should begin as a score  
19 card metric and then, after work and experience, turn it into  
20 an EIM. You know, we talk about the -- the formal framework,  
21 you know, assessment of an EIM or score card metric through a  
22 formal network, you know, which identifies the potential  
23 performance categories and metrics, assesses the importance  
24 to REV, you know, the value to the customer, and determines  
25 whether the utility has control or not.

You know, we're currently creating third



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2 party -- opportunities with third party contractors and  
3 vendors to deliver EE to our customers.

4           You know, in the order that just came out,  
5 you know, we're still digesting that, but we certainly look  
6 forward to, you know, working to continue those partnerships  
7 with third party -- with our third party vendors through the  
8 design of our programs.

9           And I think at this point, we just don't have  
10 enough information or indication as to, you know, how the  
11 markets will respond with changes in program design to  
12 really, you know, increase the third party delivery of  
13 services to design EIM, you know, around energy efficiency.

14           MS. NEVILLE: Okay. Tim, go ahead.

15           MR. WOOLF: I agree with the score card  
16 approach on this one. Score cards are great. They're very  
17 low cost -- very low risk way of getting the information we  
18 need to know how the utility is performing. Whether we move  
19 into an EIM really would depend upon what the score cards  
20 show overtime.

21           But I want to use this opportunity to -- to  
22 elaborate upon the point I made earlier about the limitations  
23 of third party delivery services for energy efficiency.

24           It's really important to recognize, we've  
25 learned this over 30 years now, energy efficiency is not a  
simple commodity. It's not like going down to the store and

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2 buying a banana, going to Amazon and buying a computer. It's  
3 much different and it's so multi-faceted.

4 And one of the terms that's been coined is  
5 that energy efficiency suffers from market barriers, that the  
6 market barriers prevent customers from adopting energy  
7 efficiency. These market barriers have been widely  
8 recognized and studied, again, for 30 years. They're called  
9 market barriers for a reason. They make it very difficult  
10 for the customers to buy and for the markets to sell  
11 efficiency products, even though those products can have  
12 significant value to the customer and even more value to the  
13 utility.

14 I'm sure most of you are familiar with these  
15 market barriers. They include things like limited  
16 information, limited access to capital, limited access to the  
17 products themselves, split incentives between landlords and  
18 renters, very short-term perspectives. You know, customers  
19 are thinking about that the bill for this month or next month  
20 or maybe next year, when the utility is planning out for the  
21 next 20 or 30 years.

22 Now, there's certainly room for third party  
23 vendors and for market forces in delivering energy  
24 efficiency. There's no question. However, it's critical  
25 that the Commission understand what's the proper role of the  
utilities versus the role of the markets. I would argue

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2 there's three critical roles for the utilities.

3 One is program planning. Markets don't do a  
4 good job at planning. That's not what they're asked to do.  
5 Market forces each -- each vendor works for their own  
6 interests. Energy efficiency is something that a utility  
7 needs to monitor and to plan for and implement for its own  
8 purposes, as well. So it has to plan these things out.

9 Program design is the second element that's  
10 critical, to make sure that all customers are served and all  
11 measures are offered and that state energy policy goals are  
12 achieved. Markets don't really care about state energy  
13 policy goals unless they're somehow included in the prices.

14 And then finally the funding, the funding is  
15 absolutely essential. I know there's a lot of talk about  
16 getting the markets to somehow bring forward funding. It's  
17 great to pursue those and I think we should and I think that  
18 looking at, you know, third party funders is great. You  
19 know, also on bill financing, there's a whole world of  
20 information about that now across the country. That's all  
21 great. But we can't count on that happening in the next  
22 couple of years. That has to be something that's -- that's  
23 sort of developed over time.

24 So in this construct where the utility's  
25 doing the planning, the program design, the funding, the  
utilities have the ultimate responsibility to meet the energy

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2 savings targets. And then they could be deployed with --  
3 they can use third party vendors to help achieve those  
4 targets. They can go out -- and they do this all the time --  
5 and have competitive bidding processes and hire vendors to  
6 come up with innovative ideas to actually get the job done.  
7 But it's the utility that does that planning.

8                       So if the utility establishes a sound EIM for  
9 energy efficiency with strong energy efficiency -- I mean,  
10 energy savings and megawatt savings goals and even net  
11 savings goals, then they have the incentive to take full  
12 advantage of the competitive market to do this at lowest  
13 cost. So it's already built into the construct that I  
14 suggested earlier.

15                      Also, it's important to keep in mind this  
16 critical principle behind any incentive mechanism is that the  
17 benefits have to outweigh the costs. And here I am not  
18 convinced that paying the utilities additional funding to  
19 find ways to pull in third party vendors is going to be worth  
20 the cost that it's going to incur to customer. So I suggest  
21 that we be very cautious about that.

22                      There's no reason we couldn't have score  
23 cards to do it, to get the information and to see how the  
24 utility is doing, but once you put money on the table,  
25 suddenly there's a great, much greater risk for -- for  
customers.

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2 MS. NEVILLE: Great. Thanks, Tim.

3 Okay. So we'll move to the last question  
4 now. And before I read off the question, I just -- little  
5 bit of context that oftentimes energy efficiency programs are  
6 talked about on a dollar-per-megawatt-hour basis. And so  
7 what this question was really trying to get around is  
8 traditional energy efficiency programs are usually authorized  
9 with a budget and a target and so you can calculate for every  
10 dollar spent how many megawatt hours are you authorized to go  
11 get.

12 This question is trying to look at is there a  
13 way to structure an EIM to reward performance and improvement  
14 in dollar-per-megawatt hour which may mean you achieve the  
15 megawatt hour target you then establish for less money or it  
16 may mean you get more for the same amount of money.

17 And so I'll turn to Rich first and then we'll  
18 go from Tim back down the row.

19 MR. SEDANO: Well, I think the experience  
20 around the United States, as applied to this question, is  
21 that the answer is no to this question. The total cost of  
22 energy, the cost of energy per megawatt hour saved is a  
23 useful statistic. And I think every Commission wants to know  
24 the answer to that question in their states.

25 But it's important to be very clear about  
what that statistic means. A low price could mean that there

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2 was a terrifically efficient way of delivering programs or  
3 there could be a cream skimming sort of ham-handed approach  
4 to programs that did -- did not take advantage of  
5 opportunities in projects, in homes, and businesses, and left  
6 a lot of important savings on the table.

7                         That would have been very economical to get,  
8 but, because it required a few more steps or a few more  
9 dollars, were left hanging. So this is -- a corollary to  
10 this is whether it's important to have a very high benefit  
11 cost ratio or one that's closer to one. If you have a very  
12 high benefit cost ratio, that means a lot of economical  
13 energy efficiency again is being left on the table. It seems  
14 like that's something that you would want, but, in fact,  
15 having a benefit cost ratio closer to one indicates that  
16 you're achieving this -- the all cost effective energy  
17 efficiency that suggests that you're -- you're benefiting  
18 customers.

19                         So generally, an approach that attaches some  
20 sort of reward or valuation to this number, especially just  
21 as the number without any reasoning behind it, is a bad idea.

22                         MS. NEVILLE: Tim?

23                         MR. WOOLF: I wholeheartedly agree. I think,  
24 in a word, cream skimming is a huge risk. I want to use my  
25 third slide to -- to make this point as clear as I can. This  
slide, the color doesn't show up much, but it shows basically

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2 a supply curve of energy efficiency programs. And this is  
3 based upon actual data from, it turns out, a Massachusetts  
4 utility. And on the Y axis, you have the levelized cost of  
5 saved energy in cents per kilowatt hour. And on the X axis,  
6 you have all the different programs that the utility was  
7 running and you can see many of them are 2 -- 3 cents a  
8 kilowatt hour. Those are mostly the C. and I. programs and  
9 then they start to get more expensive. The more residential  
10 programs get more expensive and then you've got low-income  
11 programs that are at the top.

12                       So you can see how there's a wide variety --  
13 wide range of costs for serving customers. Now, which ones  
14 are the market going to go for? Pretty obvious which ones  
15 they're going to go for. And if you have -- even the  
16 utilities, if you give them a dollar-per-megawatt-hour  
17 incentive, they're going to do the same thing. They're going  
18 to go for the low-cost measures.

19                       Now, this gets even worst because for each of  
20 these programs, you could create a similar curve for just the  
21 measures alone. So look at the commercial and industrial one  
22 which only costs 2 cents on average. Within that, there's  
23 also a whole range -- a whole slope of measures that go up to  
24 the avoided cost that could be adopted. And if you have this  
25 kind of a metric, you're going to have the utilities  
themselves and certainly the market doing just the lowest

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2 cost measures. So it's a -- it's a huge problem.

3 And I'll add this slide also shows why  
4 reliance on market forces is very dangerous. Literally, this  
5 is like the equivalent of a supply and demand curve from  
6 micro-economics. The supply curve shows the -- is the energy  
7 efficiency bars going up. The demand curve, you can think of  
8 as the avoided costs. And those are the horizontal lines  
9 across the -- and what I've done is I've shown, you know,  
10 avoided LMP -- avoided LMP plus transmission then plus  
11 distribution, and then plus distribution plus E is the  
12 environmental benefits.

13 If you're going to -- let's just say -- and  
14 the Commission has said this. They -- they will value energy  
15 efficiency at that full avoided cost. And I have a number  
16 here, 20, just -- it's just an arbitrary number to make the  
17 point.

18 The supply curve and the demand curve meet at  
19 20 cents a kilowatt hour. So if it was a single commodity  
20 with a single market for energy efficiency, you'd be paying  
21 20 cents a kilowatt hour for every kilowatt hour saved there,  
22 even ones that cost 2 cents.

23 And then if you -- what you could do with --  
24 and this is getting a whole lot closer to where this might  
25 work is, say, okay, we're going to have a market just for C.  
and I. and let that -- let that and we're going to have a cap



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2 or whatever it is, 2 cents. Well you have the same problem  
3 there because and you're going to have cream skimming and all  
4 the things that cost more than two cents, the measures that  
5 cost more than that for C. and I. won't get served either.

6                   It's a very difficult problem. And it's not  
7 something that's easily solved by market forces just going in  
8 and people looking for the lowest cost option. It's  
9 something that's been achieved over time by the utilities  
10 having the incentive to go deep and to serve every customer,  
11 to avoid lost opportunities and to make sure they get all the  
12 savings they can when they visit a facility.

13                   MS. NEVILLE: Okay. Gayl?

14                   MS. ZIBELMAN: Can I just have a follow-up?

15                   Tim, has there been a study on what -- the  
16 underlying fundamentals of the cost? I mean it's one thing  
17 to note that costs are higher, but do we know what drives the  
18 differential?

19                   MR. WOOLF: Oh sure. The costs are shown on  
20 this curve.

21                   MS. ZIBELMAN: Yeah.

22                   MR. WOOLF: So in general, there's a variety  
23 of products that are offered and there's also different  
24 customer types. The obvious difference is commercial  
25 customers are easy to reach, whereas residential customers,  
there's many, many more. So just the reaching them, the

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2 marketing, the delivery, just the face time that -- the time  
3 it takes to drive to their house costs a lot of money.

4                   And also when you reach a big facility,  
5 there's just more energy savings available. So there's --  
6 you know, you could dig into all the annual reports and the  
7 studies that have been done by utilities to show that, yes,  
8 it just costs a different amount to serve different  
9 customers.

10                   And then some products might be just  
11 retrofitting a home or a building. That cost something very  
12 different than a new product that just has a small  
13 incremental cost to make it efficient.

14                   And then you have another market, which is  
15 new construction, where it's just sort of a different way to  
16 try to get energy efficiency. And that has different costs  
17 which are directed more at the architects and the engineers.

18                   So it's just not a simple product. It's a  
19 multitude of products and that's why it's not a simple  
20 commodity.

21                   MR. SEDANO: It also depends on how you  
22 deliver it. Different delivery systems are going to deliver  
23 the same measures in different profiles. And different  
24 markets are going to benefit from one delivery system or  
25 another.

                  There's a lot of talk now about going to what

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2 they call mid-market programs, the home stores, and focusing  
3 energy efficiency dollars on -- on the retailers in an effort  
4 to get more hits.

5                       So there's a lot of different ways. There's  
6 not one -- there's not just one supply curve. The supply  
7 curve is dependent on the program design and the market that  
8 you're in. And I guess the key thing here is that program  
9 evaluation is really the answer to the question that you're  
10 talking about here. It -- you can't reduce it to a dollar  
11 per kilowatt hour saved, but you can evaluate whether the  
12 programs are successful based on what they say they're going  
13 to do and what they did.

14                      MS. ZIBELMAN: So does that suggest, in  
15 thinking about EIMs, that we should be thinking about the  
16 market segment and thinking about, you know, wanting to drive  
17 down the cost of acquisition?

18                      MR. SEDANO: Yes.

19                      MS. ZIBELMAN: That the focus ought to be,  
20 you know, some segments may not need a lot of attention  
21 because they're easy to access and the market will likely to  
22 go there?

23                      MR. SEDANO: So I have a story.

24                      MS. ZIBELMAN: Others -- the others were the  
25 regular -- where the utility can play an important role as a  
DSP

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2                   MR. SEDANO: There was a state that had a  
3 simple kilowatt hour incentive for their utility programs.  
4 And all of the corner store type places where the  
5 Commissioners went to shop said why don't I ever get any  
6 energy efficiency. And they looked into it. And basically  
7 what was happening was the cost for residential acquisition  
8 actually wasn't that bad and industrial acquisition was  
9 really easy because they were not that many of them. But  
10 they could never get a hold of the person who is running the  
11 drycleaner or the corner store. And so that was a terrible  
12 challenge.

13                           And so basically every June, the utility  
14 looked at their program and they said well, we're not going  
15 to do that, we're going to move all the money to the other  
16 classes. And the commercial class was getting very little  
17 savings. And so what they did was they changed their reward  
18 system, to reward commercial savings. And all of a sudden,  
19 they worked harder and they did better.

20                           MR. WOOLF: But I will add -- it gets back to  
21 my point earlier about planning. One of the key things about  
22 planning I didn't mention is customer equity. It's  
23 absolutely essential that the utility think through how are  
24 customers being served by this product.

25                           We talked about affordability earlier this  
morning. Affordability can mean lower bills. And if people

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2 are served by this, then they can -- they will have lower  
3 bills. So yes, you might want to especially correct for sort  
4 of asymmetries in incentives utilities have and how easy it  
5 is, but you want to make sure that all customers are being  
6 served relatively fairly.

7                           And so what often is done is, in the plans  
8 themselves, the budgets and the savings are agreed to by the  
9 stakeholders and the Commission. And those are used then to  
10 set the EIM and the utility has to -- has to meet those.

11                           MS. NEVILLE: Great. Thank you.

12                           Turning to -- John, go ahead.

13                           MR. ZABLISKI: Well, and I'll let Gayl make -  
14 - but I just wanted to add one clarification point.

15                           And Rich, you were talking about, you know,  
16 the cost of the program and then also the benefit cost that's  
17 run, you know, to -- to show that the program is worthwhile.  
18 And currently, at least under the old EEPS portfolio formula,  
19 and at least for now going forward under the ETIPs, and until  
20 the new benefit cost handwork is in place, the dollar-per-  
21 megawatt-hour cost of the program is per megawatt hour of  
22 first-year savings. And the cost of the -- of the measures  
23 that are used in the benefit cost calculations are the  
24 dollars per megawatt hour of lifetime savings.

25                           And so right now, we are running programs.  
We have two different forces driving us. So in order for the

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2 program to be run at all, it has to have a positive benefit  
3 cost, you know, based on the cost of the program per lifetime  
4 savings of the various measures that make up the benefits in  
5 HVAC program or a boiler-and-furnace program that may be 20 -  
6 - 25 years.

7                       But when it comes to day-to-day running the  
8 program and trying to hit the targets that we currently have,  
9 because we all currently have targets for, you know, what  
10 we're supposed to make for the -- for the program for the  
11 year, and you look at shifting budget money from program to  
12 program where it will do the most good, you're -- you're  
13 looking at that dollar per megawatt hour of first-year  
14 savings. And so that may have an entirely different  
15 consequence than looking at the lifetime savings that you did  
16 for the benefit cost.

17                      And so end result is you may end up promoting  
18 things that would not necessarily be something that would be  
19 in the long-term lifetime interest of efficiency and  
20 sustainability and so forth. But in order to hit this year's  
21 budget and metric target, and the way the units are, you  
22 know, you end up going with faucet aerators or, you know,  
23 screw-in CFLs or some other thing that -- you know, that hits  
24 that budget metrics.

25                      So I just wanted to -- to mention that, that  
currently we have those two different and sometimes competing

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2 metrics in the system that we're working with now.

3 MS. NEVILLE: Thanks, John, for adding.

4 And I think that the -- in energy efficiency  
5 land, the tracking of both lifetime and first year is -- is  
6 an important aspect. And you point out some kind of  
7 differences that we have right now between tests and targets  
8 that have been, but I think from a perspective of the measure  
9 mix, which I think is really at the heart of what you're  
10 talking about, if our law -- if our goals are really more  
11 long-term objectives, lifetime metrics become perhaps  
12 something that make get more prevalence than perhaps in the  
13 past.

14 Matt?

15 MR. MCCAFFREE: You know, I won't rehash  
16 what's already been said. I'm -- I'm in agreement with --  
17 with just about everything.

18 Just one point that I would like to make  
19 though is, you know, a dollar-per-kilowatt-hour type of goal  
20 or measurement is -- I think that there are -- there's a more  
21 nuanced way to incentivize energy efficiency, especially  
22 within -- within REV where one of the objectives is -- is to  
23 spur innovation.

24 That's it.

25 MS. NEVILLE: Okay.

MR. ZABLISKI: And could I add one more?

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2 MS. NEVILLE: Yes, please.

3 MR. ZABLISKI: I'll just add one more thing,  
4 talking about demand reduction, which is, you know, proven to  
5 be a valuable resource and very well documented. But in the  
6 earlier question about competing goals for megawatt hour  
7 goals versus megawatt peak reduction goals. The current  
8 system that we have right now and, in fact, the order that we  
9 received a week ago today, we're given fixed budgets. We're  
10 also given megawatt hour targets, but the fixed budget is  
11 more important.

12 And so right now to do these things, we have  
13 a constraint of -- of how much money we're allowed to spend.  
14 And so what that means is, if you look at energy efficiency  
15 and you say okay, in addition to the megawatt hour target we  
16 also want to add a megawatt peak reduction target, which  
17 maybe a very worthwhile thing, what we would have to do is --  
18 is adjust the money that we're spending to get the megawatt  
19 hour target to also drive the peak reduction.

20 And so, you know, we kind of have those two  
21 competing things. And what that means is -- because the  
22 technology is actually different. So one of things that  
23 we're seeing in efficiency programs right now and one of the  
24 utilities actually filed this for street lighting is LED  
25 exterior lighting. And it's a wonderful application. The  
ones that they've done outside the building that I work in



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2 are fantastic.

3                       But there is zero peak reduction from LED  
4 exterior lighting. But we wouldn't want to give that up as  
5 an energy efficiency measure because the market wants it, you  
6 know, the incentives can help to put more of it in. It's --  
7 it's a great long-term measure that really, you know, reduce  
8 -- saves energy, reduces carbon and so forth. But yet, if we  
9 were under a capped budget to institute a peak reduction  
10 metric, then we would probably -- that would be one of the  
11 first things that we would look at cutting would be the  
12 exterior lighting.

13                      So I just wanted to also make the point that  
14 under a fixed budget, you know, it ends up being tradeoffs  
15 between the two.

16                      MS. NEVILLE: Thank you.

17                      Okay. We did start this panel a little bit  
18 late and I know there's interest in moving to the last panel,  
19 but we do want to allow for opportunity for the audience to  
20 ask questions, both here in Albany and then I believe we have  
21 a couple of sites phoned in.

22                      So we'll start with the room here, if you  
23 want to move up to the mic.

24                      MR. LEONARD: Hi. My name is Ron Leonard and  
25 I should not sit as close I am to microphones because I stand  
up too easily and ask questions.

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2                           One of the things that I've had public  
3 discussions with Audrey about is big data. And I don't know  
4 if we've really dealt in enough to how that really affects  
5 how good this type of program would be.

6                           And the other thing that I'd like to put out  
7 for a point of discussion is sort of Richard Kaufmann's  
8 mantra that, you know, market indicators lead by example. If  
9 we really want to see improvement in reduction of waste,  
10 should we not start looking at the intrinsic system, itself?

11                           You know, if we take FERC's data, for  
12 example, and says that if we look at a BTU of energy, turn  
13 that BTU of energy into electricity, move that electricity  
14 through the wires, getting all the way down to the consumer,  
15 we only get 20 percent of that energy turned into deliverable  
16 electricity. That's a horribly inefficient system. Richard  
17 also points out the capacity factor that we have which is  
18 generically horrible.

19                           Should we not be leading by example, pushing  
20 more things like DG as the solution to the equation? Where  
21 should we be spending our intellectual energy and also our  
22 capital?

23                           MS. NEVILLE: Okay. Thank you.

24                           So to summarize, there were two points there.  
25 The first, big data, and then the second piece about more  
overall system efficiencies and how did it handle that and in

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2 the context of the energy efficiency panel, I -- I guess I  
3 would defer to --.

4           MR. SEDANO: I mean, Matt started talking  
5 about the big data aspects to it. I think that all of the  
6 states that have deployed AMI have started thinking about  
7 using the data that's being created for that in their energy  
8 efficiency programs.

9           Matt, you might want to say more about that.

10          MR. MCCAFFREE: Yeah. And I do think that --  
11 and I came at this kind of from an evaluation standpoint, but  
12 -- but I think the bigger theme is that with -- with the --  
13 this evolution of big data and big data analysis program, you  
14 can -- you can optimize programs and you can rapidly deploy  
15 changes to those programs.

16          And it's not just the AMI data that utilities  
17 are using and that companies like Comverge are using, but  
18 also because of the penetration of broadband, you know,  
19 roughly three out of -- three out of four houses here in --  
20 in New York have access to broadband. And that's another --  
21 that's another data stream, especially when you have some  
22 sort of device in the home, like -- like we do with  
23 thermostats or with switches or -- or what have you, as long  
24 as they're Wi-Fi enabled.

25          So, you know, I think that there are -- yes,  
there are lots of opportunities to use that -- that data to

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2 even make this process better.

3 MR. SEDANO: But I -- I would say, in  
4 addition to that, though, that the interpretation of the data  
5 is important. And that's one reason why I like those states  
6 that have energy efficiency collaboratives because there are  
7 a lot of interpretations for this data.

8 To some degree, this data is new and having  
9 experts from different points of view to talk about what it  
10 means and how you might change it can -- can be a good  
11 investment.

12 I don't know if anybody else wants to talk  
13 about the data side before we talk about the other part?

14 MS. NEVILLE: Any other takers on data?

15 Okay. John?

16 MR. ZABLISKI: I guess I would just say that  
17 we are moving in that direction and certainly big data would  
18 be helpful. But I -- I would agree that the analysis is --  
19 is also very important.

20 And you know, we're doing a program  
21 evaluation right now where we're doing a billing analysis  
22 and, you know, we have roughly 50,000 customers, 2 years of  
23 consumption data in the pool that our evaluators is working  
24 with. And, you know, I had asked the question casually,  
25 well, if we add AMI data for these customers, would it make a  
difference in doing, you know, the statistical analysis and

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2 then regressions and so forth.

3 And the feedback that I got, you know, and  
4 this is -- DNVGL is the company doing this -- was that well,  
5 you know, it might help a little bit but, you know, at this  
6 point we have such a volume of customers and we have a number  
7 of years of monthly read data, and so, you know, we're --  
8 we're -- you know, it may make a little refinement, but at  
9 this point for the particular work that we're doing, it's not  
10 critical.

11 So we are moving in that direction, you know,  
12 with specific programs and projects but, you know, we're also  
13 trying to make the best and I hope doing a good job with what  
14 we already have at hand.

15 MS. NEVILLE: Great. I'll give anyone on the  
16 panel an opportunity to take on the second piece before we  
17 move to the next question.

18 MR. WOOLF: Briefly I'll just add that yes,  
19 there are opportunities to increase efficiency at the end use  
20 relative to generation and transmission and distribution.  
21 And this has actually been the goal of many efficiency  
22 programs over the years.

23 Sometimes it takes the form of field  
24 switching to natural gas, which has its own issues, political  
25 issues and institutional issues. But there's also other  
opportunities. There's, you know, heat pumps, space heating,

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2 water heating heat pumps that can help that. So that should  
3 be a part of the overall goal. And that should be something  
4 that utilities should seek out as a part of their looking for  
5 all cost effective efficiency opportunities. That should  
6 absolutely be one of them.

7                   MR. SEDANO: And I think the enhanced  
8 distribution planning that is, I think, somewhere down the  
9 road in the REV process is going to help the utilities figure  
10 out exactly how to do that.

11                   MR. WOOLF: Yes.

12                   MS. NEVILLE: Great. Thank you.

13                   Next question here in Albany?

14                   MR. FLINT: Hi. Adam Flint, New York Energy  
15 Democracy Alliance.

16                   This is getting to be a pattern, Ron.

17                   I really appreciated the comments about cream  
18 skimming earlier. I had about 3 years that I served time  
19 doing Green Jobs Green New York outreach in Upstate New York,  
20 trying to do energy efficiency work.

21                   And a few of things that I think are relevant  
22 here, one is in terms of the data question. We're all over  
23 the map when we do our work there. There are folks who are  
24 on Twitter and there are folks who are not connected at all.  
25 And so though the averages may show a high percentage of  
connectivity to broadband, when you get up in my neck of the

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2 woods and many other places upstate, that will have to be  
3 taken into account.

4                       But I -- I think the larger point that I  
5 learned from that experience and what we're doing currently  
6 is that there needs to be mechanisms that allow experiences  
7 on the ground to be incorporated into policy in a little bit  
8 more real time than we're seeing.

9                       This is not an energy efficiency point, but  
10 the point I made earlier about the commercial industrial  
11 market upstate, we've been having an issue for -- for quite  
12 some time. I'm hoping with efficiency, the lessons learned  
13 could be fed back a little bit quicker.

14                      Now of course, you might legitimately ask  
15 what in the heck does this have to do with EIMs and  
16 utilities. And I don't have an answer for that question.  
17 But I think it would be good to have incentives for the key  
18 parties to be connecting a little bit more effectively on the  
19 ground with people who are working in different contexts  
20 around the state on energy efficiency on the residential side  
21 as perhaps a partial solution to the issue that was raised  
22 earlier, i.e., it's harder to reach those folks, harder  
23 connect.

24                      Final point, I totally agree about the  
25 challenges of reaching small commercial enterprises, and that  
they need some special assistance. There need to be special

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2 motivations there. They are the worst of both worlds. They  
3 are small like residential and they are more overwhelmed.

4           So thank you.

5           MS. NEVILLE: Great. Thank you.

6           I will ask if we have any questions from any  
7 of the satellite locations over the phone? No? I hear there  
8 is a delay but --.

9           Okay. Then we'll ask if there is any other  
10 questions here in Albany?

11           All right. Well, I'd like to take an  
12 opportunity to thank all of our panelists for the discussion.  
13 And I will, I think, turn it over Peter to see what's next.

14           MR. OLMSTED: All right. We're going to --  
15 we're going to move right in here to the next panel, but  
16 while people are shuffling around and getting organized,  
17 we'll just take a -- take a quick pause here.

18           (Off the record)

19           MR. PADULA: Let me start by saying good  
20 afternoon and thank you for staying around for the long haul.  
21 This is the panel on Standby Rates. It's a extremely  
22 important subject to the Commission and I look forward to all  
23 the interaction among the parties and the panel itself.

24           Let me introduce myself. My name is Marco  
25 Padula. I'm the Deputy -- Acting Deputy Director of Market  
Structure in the Office of Markets and Innovation. Most of



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2 my 20-year career has been in rate engineering. I have an  
3 engineering and MBA background. So I'm very excited about  
4 talking about standby rates today.

5           We actually have a extremely broad  
6 perspective of panelists today. I just want to introduce  
7 them. We have Rich Sedano from the Regulatory Assistance  
8 Project.

9           Just raise your hand so everybody can see.

10           Bill Atzl from Con Ed, Mark Marini from  
11 NYSEG-RG&E, Tom Bourgeois from Pace Energy and Climate  
12 Center, Bob Loughney from New York City and REBNY, and I  
13 would note we also have Jonathan Flaherty, who is on the  
14 phone, also from the Real Estate Board of New York, which we  
15 called REBNY. And on the end of the panel is Doug Staker  
16 from Demand Energy. So a broad perspective from the utility,  
17 the customer, academic, research, and I think -- I think we  
18 have lot of bases covered.

19           In preparing for the panel, I reviewed the  
20 panel's comment summaries. I asked each of them, hey, give  
21 me your -- some bullets on exactly what you're going to say  
22 so I could come up with some questions.

23           And I also looked at some past documents that  
24 the Commission has issued regarding standby rates. And I  
25 just want to take a moment and read a paragraph from a  
Commission document that I -- that I came across. Quote, in



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2 Staff's recommendation in the Track Two white paper. We  
3 noted in the white paper that the Commission recently  
4 expanded the current exemption from standby rates for a  
5 period of 4 years, with the intention that an improved rate  
6 design would be implemented that will eliminate the need for  
7 further standby rate reform.

8                         We recommended that the methodology for  
9 allocating costs that determine the contract demand and as-  
10 used demand components of standby rates should be reviewed in  
11 this new context, in conjunction with the method for  
12 calculating LMP plus D, which is described later in that --  
13 in our proposal, as well.

14                         For immediate purposes, we recommended that a  
15 reliability credit should be instituted, similar to what has  
16 been put in place in Con Edison. And we had a series of  
17 recommend -- recommendations to expand the revisions to the  
18 Con Edison offset tariff, expand and revise the Con Edison  
19 offset tariff.

20                         In our notice for this technical conference,  
21 we had a series of questions that you're all familiar with  
22 and they covered three different areas. It's really  
23 understanding the current rate design. In my experience, you  
24 could talk to three different people about standby rates and  
25 each of them has a different understanding of exactly how the  
standby rates work and exactly how they're designed. So I

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2 really hope that this discussion will kind of clarify some of  
3 that.

4           The second area that the questions cover are  
5 what changes or approaches could be made to the existing  
6 allocation methodologies, cost allocation methodologies. And  
7 what processes should we use to get to those changes. We're  
8 very interested in -- in knowing from the parties what  
9 process should we now move forward with to make these  
10 changes. We realize it can't be done overnight or it can't  
11 be done in one meeting or two meetings, but tell us what kind  
12 of process you believe we need, moving forward.

13           With that, I'm going to move to the panel  
14 remarks and we'll start with Rich Sedano, who's going to  
15 provide a brief overview and set the context of our  
16 discussions for today.

17           MR. SEDANO: Thank you, Marco. Thanks for  
18 inviting me again.

19           And New York is, I think, on a forefront of  
20 trying to correct this 100-year-old problem that the  
21 Department of Energy is trying to work on with their  
22 industrial energy efficiency and CHP efforts and C-action  
23 process.

24           And in REV, I think if there is -- there's a  
25 few animating words in REV and one of them that I write down  
in capital letters on papers when I'm making notes about REV,

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2 a lot, is value.

3                   REV is about identifying value, monetizing  
4 value, activating decision-makers and market actors to do  
5 things that would actually create -- that secure the value  
6 that is there. The value is there. The question is that  
7 we're wasting it a lot of times.

8                   So to secure this value, to affirmatively  
9 focus on finding value and distributed resources, as REV  
10 declares its intent to do, through the Commission's words,  
11 and CHP, of course, being a very important distributed  
12 resource and important resource sitting in many industrial  
13 customers' buildings.

14                   And validating customer choices for any  
15 resources that the customers choose to bring to the grid,  
16 which I think is another important thing about REV is, is  
17 motivating customers to not assume what we can't do, but to  
18 consider what we can do, and to expect that the grid will  
19 enable those things to happen if all the economics work out.

20                   And including aggregated forms of customer  
21 activity like the campus setting and to charge customers for  
22 grid-based costs. So the value works both ways. Customers  
23 produce value for the grid, customers ask for service from  
24 the grid, and should pay for that based on its value.

25                   And that -- that basically is -- is how the  
standby service and all the other elements to it, the buyback

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2 rates, the maintenance, all of the other relationships that  
3 CHP customers are going to have with their utility, I think,  
4 are considered in the REV context.

5                         And so I'll leave it there and let the others  
6 go.

7                         MR. PADULA: Thank you, Rich. Much  
8 appreciated.

9                         Now, we're going to move to the utility  
10 perspective and Bill Atzl is going to be speaking -- for both  
11 or you're going to have -- or will each of you have a --?

12                         MR. ATZL: We'll each -- yeah, we'll each do  
13 some speaking.

14                         MR. PADULA: Thank you.

15                         MR. ATZL: So, thank you, Marco.

16                         We've -- you know, we've also taken a look at  
17 the -- the elements of standby rate design as they were  
18 established originally by the Commission, and find that many  
19 of these elements still apply. For instance, delivery cost  
20 should be recovered through a combination of customer,  
21 contract demand, and as-used daily demand charges.

22                         And the cost-based standby rate should  
23 provide neither a barrier, nor an unwarranted incentive to  
24 customers contemplating the installation of DG Standby rates  
25 are based on a revenue-neutral rate design for each service  
class. So that is standby rates are designed to produce the

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2 same amount of revenue as conventional rates for an entire  
3 class of customers.

4                       This is a source of confusion sometimes with  
5 customers and others regarding standby rates. Revenue-  
6 neutral is on a class basis and once a customer installs DG  
7 and goes on standby, their usage and their bill will  
8 obviously go down. So it's not revenue-neutral on a per-  
9 customer basis.

10                      The current standby rate design reflects the  
11 diversity of DG through the use of both contract and as-used  
12 demand charges. And also non-monetized environmental values  
13 should not be reflected in standby delivery rates, but should  
14 be reflected in -- elsewhere in a payment that a customer may  
15 receive for benefits provided by their DG

16                      So although the joint utilities believe that  
17 these elements of standby rate design are still valid today,  
18 we are open to a re-examination of the allocation between  
19 contract demand cost and as-used demand cost, but we favor  
20 doing that through a performance-based element.

21                      So getting to the questions that were posed  
22 in the notice establishing this technical conference. As  
23 Marco mentioned the initial question was really background on  
24 -- on how standby rates work today. And we just want to give  
25 you a quick refresher on that. So under the Commission's  
standby rate guidelines, the cost of local facilities or

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2 those that are closest to the customer are recovered from  
3 customers through contract demand charges. And those are  
4 assessed on the customer's maximum potential demand.

5                     Under normal design conditions, those local  
6 facilities must have the capacity to serve the standby  
7 customer regardless of when the customer's DG unit might  
8 fail.

9                     Now, at the other end of the spectrum are  
10 shared facility costs. Those are costs recovered through as-  
11 used demand charges. And at that other end of the spectrum,  
12 the most obvious example is the transmission system. And to  
13 the extent that not all DG customers need standby service at  
14 the same time, the cost of capacity in that portion of the  
15 system can be shared.

16                     For the utilities other than RG&E, a standby  
17 rate matrix allocates costs between contract and as-used  
18 demand charges. The way it works is that we take the revenue  
19 requirement for a class of customers, for instance, let's say  
20 large commercial customers, and identify the costs associated  
21 with the 4 major components of the T and D system. So that's  
22 secondary distribution, primary distribution, substation, and  
23 transmission costs.

24                     The standby matrix then identifies the  
25 portion of each of these cost components that will be  
recovered through contract and as-used demand charges. And



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2 these allocations differ based on the voltage level at which  
3 the customer takes service.

4           So, for example, a secondary voltage customer  
5 has cost of the secondary system considered mainly local and  
6 more heavily weighted toward contract demand charges. And  
7 then as we get further, electrically, from the customer, for  
8 instance, into the substation and transmission systems, that  
9 allocation shifts more to the as-used component.

10           So it's important also to note here that a  
11 standby rate customer is not paying a contract demand charge  
12 for their full load through the entire electric system.  
13 That's another source of confusion that we sometimes  
14 encounter. They're paying a contract demand charge solely  
15 for the local facilities or the facilities that are closest  
16 to the customer. And that use of a combination of contract  
17 and as-used demand charges does recognize the potential  
18 diversity among DG customers.

19           So that's generally the standby approach for  
20 the utilities other than Rochester Gas and Electric. And  
21 Mark Marini is going to give us a description of how it's  
22 done at Rochester Gas and Electric.

23           MR. MARINI: Thanks, Bill.

24           So at Rochester, the results of a marginal  
25 cost analysis are used to set the standby rate components of  
contract demand, as-used demand, as well as the customer

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2 charge. This marginal cost analysis measures up -- measures  
3 these components of the delivery system and they match up  
4 fairly well with the components laid out for -- for the  
5 standby rates or the standby rate components.

6           The first is customer related cost which are  
7 the meter the customer -- the services the customer related  
8 expenses associated with serving a customer. These costs  
9 vary with the number of customers on the system. So ideally,  
10 they're collected on a per customer basis. And those costs  
11 are used to determine the customer related component of the  
12 standby rate.

13           The second component that's measured through  
14 the analysis are design, demand related cost. And those are  
15 costs associated with local distribution facilities, which  
16 include transformers, local primary lines, and secondary  
17 lines. These are facilities that sized based on the expected  
18 maximum loads of customers using -- using them over the life  
19 of the equipment. And absent any changes in the customer's  
20 design demand, those are not expanded in response to month-  
21 to-month or year-to-year variations in actual usage.

22           So the optimal way to recover these costs  
23 would be through a fixed charge applied to some measure of  
24 design demand. And these costs, therefore, are used to  
25 determine the contract demand component of standby rates.

          The last component of the marginal cost

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2 analysis measures load related distribution costs which  
3 include distribution substations, trunk line feeder cost,  
4 upstream line costs, and substation costs, as well as  
5 marginal transmission costs. These are more extensively  
6 shared facilities. They are higher voltage components of the  
7 system that are expanded as peak load grows.

8           The optimal recovery of such costs would be  
9 in a per-kW-of-peak-load basis. And these costs then are  
10 used to determine the as-used component of standby rates. So  
11 once those marginal costs are developed and estimated and  
12 measured for each service class for each of those components,  
13 they are marked up to achieve the full delivery revenue  
14 requirement for the class which is another standby rate  
15 principle.

16           So although the standby rate methodology at  
17 RG&E is different than the other utilities, the principles  
18 are the same. A cost analysis is used to determine the  
19 responsibility between local or contract and as-used shared  
20 facilities. Only costs associated with local facilities are  
21 used in the determination of contract demand which recognizes  
22 the individual customers more direct cost responsibility,  
23 while costs associated with shared facilities are used to  
24 determine as-used demand which recognizes the variability and  
25 diversity among all customers.

So as stated above by Bill, standby customers

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2 are not paying a contract demand charge on an entire load and  
3 a combination of shared and as-used recognizes the load  
4 diversity amongst standby customers.

5           MR. ATZL: So we'll quickly move on to  
6 question number two that was posed by the Commission. And  
7 that question is regarding how those costs, contract and as-  
8 used, could be reallocated. We would point out that any  
9 revised methodology to establish those charges should still  
10 be based on the underlying cost structure of the individual  
11 utility.

12           Now it is well-known for people who have been  
13 involved in standby rates that the standby rate matrix for  
14 each utility was a result of a negotiated agreement that  
15 occurred in each utility standby rate proceeding several  
16 years ago. And those settlements resulted in cost  
17 allocations between contract and as-used demand charges that  
18 were agreed to by a variety of parties with widely divergent  
19 views and ultimately found reasonable by the Commission.

20           So when we're considering reallocating costs  
21 between contract demand and as-used charges, we have to keep  
22 our eye on certain things. One is that, although certain  
23 customers' bills would be reduced by that reallocation, other  
24 standby customers' bills would increase. And that's  
25 something that we shouldn't lose sight of. It's not  
necessarily something that is good for all customers.

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2                       We also recommend continuing to use a standby  
3 rate matrix, but altering the allocation of costs by  
4 recognizing the performance of the customers' DG unit.

5                       So, for example, Con Edison recently  
6 implemented a standby performance credit mechanism that  
7 provides customers with an opportunity to earn credits toward  
8 their contract demand charges based on the performance of  
9 their generating facilities. And this program was the result  
10 of a series of meetings among Con Edison, its standby  
11 customers, and other stakeholders to explore issues and  
12 concerns regarding standby rates.

13                      During those meetings, one of the main issues  
14 put forth by the standby customers was that they believe that  
15 the then current standby rates didn't adequately encourage  
16 consistent DG performance and didn't compensate DG customers  
17 for the benefits that they bring to the utility system.

18                      So the Con Edison standby performance credit  
19 mechanism was developed to recognize that, and to provide  
20 customers with an incentive for DG performance that would  
21 reduce their contract demand charges. So the mechanism  
22 allows a customer with demonstrated DG performance to reduce  
23 their contract demand charges and in so -- in doing so, it  
24 does change the allocation of contract and as-used demand  
25 costs.

                          And it's also consistent with REV goals for

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2 system reliability and resiliency. Because REV -- REV is  
3 meant to use customer-sited DER as a substitute for utility  
4 infrastructure. And if we're going to do that, we need to  
5 make sure that that customer-sited DER performs. So this  
6 type of mechanism gives customers an incentive to really  
7 perform and make sure that their DG unit is providing what it  
8 was intended to provide.

9           This is also consistent with the reliability  
10 concept -- the reliability credit concept proposed by Staff  
11 in the Track Two white paper. Similar, but this proposal  
12 that Con Edison uses relies on measured DG performance. And  
13 we think that's a very important element of it.

14           Additionally, any standby performance credits  
15 must be fully recoverable by the utility from its delivery  
16 service customers.

17           The question three in the notice pertains to  
18 other methods of allocating besides what we have today in  
19 terms of a matrix. Mark Marini's description of the RG&E  
20 method offers one alternative, but we believe that the  
21 introduction of a performance element to the standby rate  
22 based on meter DG performance will better achieve the goals  
23 of REV.

24           And this has been successful for several DG  
25 customers in Con Edison service territory in the first summer  
of the new performance credit and we expect that to grow in

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2 the coming years.

3                         In terms of process, standby rates are highly  
4 utility specific in terms of utility cost structures and --  
5 and their customers. And we think that most of the -- the  
6 changes that might occur in terms of the allocation of cost  
7 should be discussed in utility rate proceedings.

8                         MR. MARINI: Thanks, Marco. And we're ready  
9 to turn it over to the next speaker.

10                        MR. PADULA: Thank you.

11                        Next up is Tom Bourgeois from PACE.

12                        MR. BOURGEOIS: Yes, thank you, Marco.

13                        I'm going to approach this from principles,  
14 too, but not -- not at the level of the design of the current  
15 standby, but maybe a much more generalized level. And I'd  
16 like to talk about fairness, transparency, alignment with  
17 state policy objectives, extracting maximum value from  
18 distributed energy resources, and also fully accounting for  
19 benefits to the system as well as the cost.

20                        With regard to the first item, there's  
21 implicit evidence that the current standby rates are more  
22 burdensome than the otherwise applicable tariff. And I say  
23 this because, for years, certain customers meeting a megawatt  
24 size and an efficiency threshold have had a choice to opt  
25 into the standby rate or to stay with the otherwise  
applicable rate. And in overwhelming numbers, customers who

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2 could have elected the standby rate have not done so. So I  
3 think that says something about the standby rate.

4           We had a technical conference last year and  
5 at that time we heard from several parties and commercial  
6 developers and others talking about how sizing -- in some  
7 instances, sizing decisions were not being made for  
8 efficiency reasons or not being made for economic reasons,  
9 but they are being made to stay below the level at which the  
10 standby was imposed, to stay below the 15 percent level.

11           So once again, I don't think we're getting  
12 the right result if -- if that's how business decisions are  
13 being made, not for efficiency, not for economics, but to  
14 avoid imposition of the standby rate.

15           Now in terms of transparency, the standby  
16 rate is not at all transparent. We've heard, over and over  
17 from end users and from developers and you mentioned  
18 yourself, Marco, that, you know, you get three people in a  
19 room and you ask how does it work, you get three or four  
20 different answers.

21           So with so many people finding the  
22 application of the rate very confusing and a rate -- I would  
23 suggest that a rate that is so confusing needs  
24 reconfiguration. I think we need a rate that's much more  
25 understandable. If you have developers and end users not  
really understanding how this operates having to pay a lot of



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2 money for consultants to figure out what the imposition is  
3 going to be, that does not make for good forward decision-  
4 making and for good investment decisions.

5                       Next, in terms of alignment with state policy  
6 objectives, New York has embarked on a bold plan reform, the  
7 utility business model and practices to plan for and  
8 integrate distributed energy from third party providers as a  
9 central focus to try to create vibrant markets for  
10 distributed energy resources on the distribution system.

11                      And I would suggest that the economic  
12 incentives of the standby rate, as currently constructed,  
13 might be at odds with these objectives. So you talked about  
14 what kinds of modeling do we need. I think when we do model  
15 this, we look -- we ought to look at how is this -- how is  
16 any new reconfiguration of standby rates in line with or  
17 consistent with our state policy objectives for encouraging  
18 distributed energy resources.

19                      And in terms of a firm empirical foundation,  
20 I think Bob is going to speak a little bit to this. I was  
21 not as involved in the case as others. But I remember the  
22 case in which this new empirical foundation was set. And we  
23 don't really have a firm empirical basis for the standby  
24 charges, I would suggest. I would question how valid are the  
25 underpinnings.

                    We heard about this allocation and Bill and

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2 Marco were saying it was agreed to by parties. It was agreed  
3 to, but it was not based on any empirical analysis. It  
4 wasn't based on any system studies. It was more of a -- of  
5 an assignment of -- of dedicated cost versus shared cost that  
6 was arrived at in a multi-party arrangement. So I think we  
7 do have to take a hard look at the empirical basis of -- of  
8 this.

9                           And we do have -- CHP systems have been  
10 operating on standby rates for many years. So I would  
11 suggest one thing that we could do is we could do an  
12 empirical study of how standby customers have interacted with  
13 the grid, and the cost and the benefits that they have  
14 provided. So we -- I would suggest that we establish a more  
15 firm analytical underpinning for the current standby rates.

16                           In terms of extracting maximum value, I think  
17 we need a careful analysis of how standby rates, again as I  
18 said, impact the state's objectives. If we want to encourage  
19 high efficiency and clean CHP and other distributed energy  
20 resources to be operating in the locations of highest value  
21 and operating at the right time of the day and right season  
22 of the year, to improve grid productivity and lower system  
23 cost, I think we have to take a look at how the standby rate  
24 or any alteration of that would -- would affect those  
25 decisions and, ultimately, affect the -- the uptake or the  
amount of -- of DERs that we see on the system.

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2                         Finally, I would suggest that we -- you know,  
3 we've looked at this in terms of the standby rate and the  
4 imposition of cost and how costs need to be recovered. On  
5 the flipside, we know that distributed energy resources  
6 create significant benefits. And unless and until --  
7 significant and I would also say at this time uncompensated  
8 value. There's a lot of uncompensated value created by  
9 distributed energy resources.

10                        Until we feel confident that we're  
11 compensating for the value, I think we have to take a look at  
12 the net of the benefits and the cost in any -- any alteration  
13 of the rates.

14                        And finally, I would point to a recent  
15 development as just as a point of caution. Halletts Point,  
16 Durst is building a large new complex which is not going to  
17 be interconnected with Con Edison. There's been a lot of  
18 issue there about standby rates and the impact that standby  
19 rates have had on some of their other developments. And I  
20 would suggest that this is a lose-lose.

21                        The customer loses value, the value of the  
22 grid. And on the other side of the coin, the grid loses the  
23 potential benefits the properly designed and configured and  
24 operated DERs could have. So we don't want to see more of  
25 this. We want to see a lot less of this.

                          We want to have -- see a rate design that

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2 encourages customers to stay on the grid. We don't want to  
3 see customers to be migrating off the grid. And I would  
4 suggest that's in the interest of the utilities as well,  
5 because with innovation, with new product development, with  
6 the declining costs, I think more customers may be able to do  
7 this. And we want to -- we want to see the best outcome for  
8 both customers and utility system.

9                   MR. PADULA: Thanks, Tom. Very interesting  
10 perspective.

11                   Let's move to Bob Loughney, representing New  
12 York City and REBNY.

13                   MR. LOUGHNEY: Thank you, Marco.

14                   I've been fighting these standby wars so  
15 long, I sometimes feel like 100 old and it's been 100 years  
16 we've been doing this; right? And Marco, you've been here  
17 too, so --.

18                   Anyway I wanted to start out by commenting on  
19 the current rate design and how it's been developed. And  
20 Bill referred to this, but -- and Tom did also. There's this  
21 thing that came of a 2001 case that was called the standby  
22 rate matrix. And it sets percentages as to how much is local  
23 -- how much is allocated as local, how much is allocated as -  
24 - to the as-used.

25                   So the problem is that the rate matrix was  
the result of a settlement in a very, very contested

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2 contentious case. And the -- the underpinning -- the  
3 underlying assumptions as to the rate matrix which is then  
4 used -- and I'm not blaming the utilities, this is what they  
5 have to do. They have to follow the rate matrix. But the  
6 assumptions have never been tested and it's more than time  
7 that we have to revisit whether the assumptions are correct.

8                         For example, for the Con Edison system for  
9 primary voltage customers, 75 percent of the primary  
10 distribution system and 50 percent of substation costs are  
11 deemed to be local. Now, that's -- that seems a little  
12 dubious to me. But I guess, beyond just, you know, throwing  
13 a number out and saying it's wrong, at a minimum, I think the  
14 numbers have to be examined in an analytical way.

15                         The -- you know, the fact that we have a  
16 problem is illustrated by the fact that the Commission  
17 actually stepped in and granted a standby rate exemption --  
18 expanded the standby rate exemption. So the fact that the  
19 standby rates may be off, I think the Commission is already  
20 there in terms of their thinking by creating a standby rate  
21 exemption that allows a lot of people to avoid the standby  
22 rate if they want to.

23                         As Tom said, when people have been afforded  
24 that opportunity on the Con Ed system, 94 percent have said I  
25 won't take the standby rate, I'll stay on the standard rate.

                          The other thing about standby rates, they're

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2 never really analyzed in the -- separately in a cost study in  
3 a rate case. So we collectively have no idea whether the  
4 cost of serving standby customers is more or less than the  
5 rates -- with the revenues that are giving, whether they are  
6 more or less than the cost that they're imposing. That's  
7 unusual. We do that for every other service class.

8                         Standby rates have -- Tom mentioned the  
9 standby rates have driven customers to get off the system,  
10 the Durst petition. The Commission actually cited to the  
11 Durst petition in its order, allow expanding the exemptions  
12 because they noted that people leaving the system is  
13 something that has to be considered and it's -- and it's a  
14 reason actually they used to justify granting the exemption  
15 of the -- expansion of the exemption that they did.

16                         I think we've already talked about expanding  
17 exemption. I mean, the Commission has already taken steps.  
18 The performance credit is another positive step. I think  
19 these interim steps are welcome, but they don't really solve  
20 the problem, which is we have to get in and take a look at  
21 what the standby rates are and what the basis of them is.

22                         I -- there are some examples that 2014 REBNY  
23 provided specific examples of what it would cost a customer  
24 on standby versus if they were on the standard rate. For  
25 customers with -- there was up to a million-dollar penalty,  
if you want to use that word, if you went with the standby

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2 rate versus the standard rate for some of them.

3 The interesting thing is the penalty is worse  
4 for the customers who performed better. So this -- because  
5 of the contract demand and the way it's imposed, the better  
6 you perform the bigger the penalty is for you for being on  
7 the standby charge.

8 The second and third questions, I kind of  
9 lump them together in terms of how should the allocations of  
10 cost be modified. And I think -- you know, again, I think we  
11 have to start with the proposition that the current rates are  
12 not defensible. And one way to do this -- one way to proceed  
13 is to suspend the standby rates until we get to a point where  
14 we have confidence in them. And this has never -- I don't  
15 think we've ever had that kind of an examination.

16 To some extent, the expansion of the  
17 exemption provides that relief for new customers. It doesn't  
18 do much of anything for existing customers. So one thing to  
19 consider is whether the standby rate should be suspended  
20 until we -- we complete an analysis of what the right rate  
21 design is.

22 Tom mentioned that the standby rates have to  
23 be looked at in terms of whether they're consistent with  
24 state policy. REV is advocating for increased reliance on  
25 DERs and improper standby rates have been identified as a  
barrier.

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2                   I think any analysis of new standby rates has  
3 to include a cost-of-service analysis that recognizes the  
4 non-coincident nature of the standby loads. I know that the  
5 utilities seem to think that the use of a contract and as-  
6 used charges somehow recognizes that. It does recognize it,  
7 but we don't know whether it's being recognized in a proper  
8 way.

9                   Bottom line is that, in my view, the standby  
10 rate matrix should be thrown away. And the cost allocation  
11 should be following -- proven cost causation principles that  
12 are applied to all other classes and not unproven assumptions  
13 of what local facilities are and shared facilities are.

14                   And I guess, you know, the rationale for  
15 having a contract demand also, I think, needs to be re-  
16 examined. The utilities design rates for all the other  
17 classes without contract demands, they have the ability to do  
18 rate design, demand reactions for the classes have been  
19 eliminated. They use actual demands to design the rates and  
20 I think that's where we ought to be looking to go.

21                   Finally, the contract demands the penalty for  
22 good performance. You pay the same contract demand if you  
23 are not interrupted for 11 months, if you -- as you do for  
24 the month you were interrupted. So regardless of how well  
25 you perform, the contract demand is there every month. And  
we hear about it from all the customers that the contract



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2 demand and the level of a contract demand and the  
3 unavailability of it is really the problem with the standby  
4 rates.

5                       I guess, just to the last question, Marco,  
6 the how should we proceed, I think, you know, one way is to  
7 suspend the standby rate tariff until the need for standby  
8 rate is verified, that the -- that the basis of the rates can  
9 be tied to cost causation, and a determination that the new  
10 rates are consistent with REV policies. If they're not  
11 suspended, I think, the interim relief should remain in place  
12 until there's an expedited process that provides new cost-  
13 based standby rates and -- and they're in place.

14                      In any event, I think, the thing I'd like to  
15 emphasize is that the regulatory uncertainty surrounding  
16 standby rates is very bad for DG projects. Even something  
17 like the 4-year stay out or the option to get out of standby  
18 rates for 4 years, it's difficult to make investments when  
19 you don't know what's going to happen at the end of the 4  
20 years. So the much preferable way would be to -- to get this  
21 issue on the table and get it resolved so that, going  
22 forward, investors can make decisions and -- and be confident  
23 that they made the right decisions.

24                      If I could, Marco, I just want to tee it up a  
25 little bit for --

MR. PADULA: Sure, please.

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2 MR. LOUGHNEY: -- Jonathan on the phone  
3 because Jonathan is from REBNY. I've worked with him and he  
4 -- I think he was going to provide some examples of -- of how  
5 this actually affects the analysis of projects.

6 MR. PADULA: So we will move to the phone  
7 now. And Jonathan, I hope you can hear us and --.

8 MR. JONATHAN: I can hear you guys just fine.  
9 Can you hear me?

10 MR. PADULA: Perfect, yes. Go ahead.

11 MR. JONATHAN: Great. Well, wonderful.  
12 Thank you very much for inviting me to share some thoughts on  
13 this.

14 I thought I would -- I would -- it would be  
15 most helpful for me to just respond to a couple comments that  
16 were made by Tony and Bob. I mean, Marco, you know, we have  
17 provided what we believe would be reasonable solutions to the  
18 standby issues to you and to the Commission through REBNY and  
19 directly to Con Ed. And the response from Con Ed is all of  
20 our ideas are not feasible for various reasons.

21 So I don't think it will be helpful to go  
22 over those reasons now on the phone. They've been submitted  
23 in letters and as testimony. So I thought I'd just address a  
24 couple of the comments that were made in regard to how that  
25 has actually affected us who are trying to build these  
projects.

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2                       So first of all, I wanted to just address a  
3 comment that Bob made about 4-year exemption. I mean, I can  
4 tell you that that was the -- as you very well know, Marco  
5 and Bob and others, that was the outcome of a very long  
6 process of discussions about standby rates in the Con Ed  
7 territory and looking at the various projects that actual  
8 developers were doing in real numbers.

9                       And I want to be clear that we thought that  
10 that was -- I mean, that was wonderful. Thank you for that  
11 exemption. But I can tell you that that actually ended up  
12 causing a significant more amount of heartburn within the  
13 company about the numbers.

14                      Because when we put together an economic  
15 analysis and need to go spend 8 -- 10 -- 12 million dollars  
16 to build a facility like this, to just know at the end of 4  
17 years something could happen is not really, you know,  
18 spreadsheetable. And it makes it very, very difficult for  
19 people to make financial decisions that they think would be  
20 reasonable and prudent. And so in fact the 4-year exemption  
21 not only didn't help, but it was a major detriment to our  
22 decision to move forward on cogen, which we have not, because  
23 we just couldn't model what happens after that.

24                      And I mean, I hate to say the regulatory  
25 uncertainly equals not investing in capital, but these are  
very expensive projects and you need all the years in the

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2 model to reflect what's actually going to happen. And if we  
3 just have after 4 years, well, maybe we'll go back to  
4 standby, this might happen, that might happen, that's just  
5 not an acceptable level of risk for an investment that can be  
6 many millions of dollars.

7                       So that was not a bad decision by any  
8 stretch. It unfortunately was actually a negative in our  
9 economic analysis of moving forward on cogen.

10                      I would also add and I'm here representing  
11 REBNY, but I will also just add as a personal note from --  
12 from the company I work for, Tishman Speyer. We've looked at  
13 putting in cogen facilities at every single property we own  
14 in New York City, which is a decent number. And we can't get  
15 the economics to work on any of them. So -- and again,  
16 Marco, you know the details of all of that, but we really  
17 have looked in, you know, exquisite detail as to how to make  
18 this work.

19                      We were very motivated to try. And we, at  
20 the moment, cannot make a pencil out. But I thought, with  
21 that in mind I would just -- there's couple of a comments to  
22 Tom and Bob had made.

23                      One was Tom had mentioned earlier about  
24 sizing inefficiency versus economics. And I just wanted to  
25 say that that was an enormous piece of the puzzle when we  
looked at this. We were purposefully sizing our facilities



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2 good modelers. We could not accurately model this at any  
3 building, no matter how hard we tried, according to Con Ed.  
4 It was always wrong. So I think we're pretty good. If we  
5 can't model it, I question how anybody can model it  
6 accurately.

7                       And then, the last thing I would say about  
8 that is that, you know, construction cost in a lot of these  
9 models, one of the things that we spend -- again, that last  
10 year showing the Commission and Marco and his team was that,  
11 you know, real world examples, real construction costs, and  
12 in the down -- especially in New York City construction costs  
13 in existing buildings, and that's where you're really going  
14 to find the most opportunity for DG, they're just very, very  
15 expensive.

16                      I mean, if we want to put in a cogen in any  
17 of our buildings, it's going to have to come in, in pieces,  
18 and it's going to be quite pricey. And so what we found was  
19 a lot of the assumptions that were being made about what was  
20 reasonable and what was not were not using accurate  
21 construction cost estimates. And so when we came in the real  
22 numbers, you know, the payback went through the roof because  
23 the numbers that were being used by others to model were just  
24 not realistic in the downstate region.

25                      So we found that we couldn't get a payback  
below 7 to 8 years on any possible way of sizing, economics,

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2 et cetera, at any building, no matter what the case was.

3 And then the last comment I would just make,  
4 which I know, Marco, you know very well also is something  
5 that we care greatly about, but -- and I know this isn't the  
6 purpose of today's conversation. But we would just throw out  
7 there that it is 100 percent uneconomic to put in a cogen  
8 facility at any facility that is served in the Con Ed service  
9 territory. It cannot be done economically. And that  
10 standby tariffs are an integral part of this conversation in  
11 areas where available. So with that, those are all my  
12 comments.

13 Thank you for having me.

14 MR. PADULA: Thank you, Jonathan. Much  
15 appreciated.

16 And now we'll turn it to Doug Staker.

17 MR. STAKER: Well, thank you for the  
18 opportunity.

19 MR. PADULA: Give us a customer perspective.

20 MR. STAKER: I appreciate that. We build  
21 distributed energy storage systems. We actually started  
22 working with Glenwood in Manhattan about 5 years ago. And  
23 the first system we put in, we had -- we had done a business  
24 model basically on a standard rate, looking at the ability to  
25 do a couple of things. On the supply side, to be able to  
move to day-ahead hourly pricing, which, at that point in

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2 time, many people thought we were just crazy, fundamentally.

3           As we went through the interconnection  
4 application, Con Ed told us, look, we're going to have to  
5 move you on standby because you've exceeded the 15-percent  
6 threshold. So when we first looked at that, we just thought  
7 that our project economics were just -- just not there. But  
8 we didn't know any better, so we dug in deeply.

9           And you know, I would make the argument that  
10 if you really dig into Con Ed's standby rate, we can show,  
11 especially if you look SE 9, rate 1 to rate 4, just moving in  
12 an account over to -- from that rate off of the standard  
13 rate, you can save money.

14           And it's a little more complex when you look  
15 at some of the larger commercial rates, the rate 2s to rate  
16 5, rate 3 to rate 5. Just the act of moving doesn't save  
17 money. And the fact is -- I don't know if it's just the  
18 remnant of the design, but when you look at moving from a  
19 rate 1 to rate 4, there's really not a large energy  
20 component.

21           And so what we've noticed is certain loads,  
22 it's not all loads, that tend to have a high load factor,  
23 high energy factor, when you move that energy element out a  
24 bit and you move strictly over to a power element, be it  
25 fixed or as-used, that just that act changes the way that --  
the rate to apply it. And we went through and we understand



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2 the mac charges, the simplification on mac that's been  
3 applied just make life a lot easier the way mac was applied  
4 before was very complex.

5 Now it isn't always true and I think to what  
6 J.P. was saying, what Bob was saying, on a lot of the  
7 commercial accounts that we look at, it is punitive to go  
8 there, but then we're trying to leverage some other elements  
9 about standby.

10 We're the only heretics in the room here that  
11 we like standby from a couple of different reasons. One is  
12 that it allows us to move to a daily rate. Just from the  
13 standpoint that if tomorrow, we want to stop and pause our  
14 operation, which is basically around demand charge reduction,  
15 and participate in a DR operation which is total -- in total  
16 conflict with -- with demand charge reduction, we can do that  
17 with only a day's penalty for demand charge reduction, the  
18 day's penalty being the loss of the as-used charge. So we  
19 like that flexibility.

20 The other thing is it's measured from 8 a.m.  
21 to 10 p.m. So it means, for many of us, at our age in this  
22 room, the term nights and weekends are free has a little bit  
23 of history, but that has some operational benefits, as well,  
24 especially in the storage business where you may want to  
25 charge up at night, where you won't be penalized for an as-  
used or demand charge overnight when you're going to charge.

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2                         We think that standby is a half-step to the  
3 types of rates that we need to be thinking about, looking  
4 down the road from a REV perspective, where we have proven to  
5 Glenwood that moving today had hourly pricing on the supply  
6 side is beneficial to the point that they moved their entire  
7 fleet over to that.

8                         And again, many people looked at them and --  
9 and said why would you take that risk. You know, lots of  
10 people like budget certainty, like to know flat rates, all  
11 that, but that's a market driven force out there and we have  
12 been able to leverage market pricing, off-peak pricing versus  
13 peak pricing, and put that to an advantage and drive savings  
14 from end user perspective.

15                         When we get into the argument about fixed  
16 versus as-used, at the end of the day we have to have a grid  
17 out there to connect to even in the future of REV. You just  
18 -- you need it from a variety of different reasons. So there  
19 should be a way to recover some of the fixed cost in a fixed  
20 fashion. I think that gives Con Ed the revenue certainty  
21 they need. It also lets us know that that grid's going to be  
22 there, should we need it.

23                         And -- but I have an argument with my friends  
24 at Con Ed about the value of that fixed and that I don't  
25 think fixed should be a higher portion. I think there's more  
variable cost out there, which has always been an issue when

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2 a lot of distribution companies will say, look, our capital  
3 costs are fixed, we don't have any variable or marginal  
4 costs.

5 And when you look at a couple of things that  
6 -- that drive losses in the system, fatigue in the system, if  
7 you look at what that correlates with, that correlates with  
8 load. So if you look at the way that we measure line loss, a  
9 lot of line loss is measured -- they will sum up the energy  
10 over a period of what was generated and then they'll look at  
11 the energy that was delivered over that same period and  
12 they'll look at that differential. And that's a common way  
13 of looking at line loss.

14 The reality is line loss varies with -- with  
15 load. It's a function of the amperage squared. So if you  
16 look at the differential on July 19th, 2013, the load in Con  
17 Ed, excluding Westchester, the peak was -- I think it was a  
18 little over 11 or -- yeah, a little over 11.7 gigawatts --  
19 trough was about 7 gigawatts that morning. The ratio of peak  
20 to trough was 1.4 to 1.

21 When you look at -- but the effect of line  
22 loss at peak versus the trough, you got to look at it from a  
23 squared function, which means line loss at peak was 2 times  
24 what it was at the trough. So when you look at the elements  
25 of line loss and the time variability throughout load in the  
day, there are marginal cost that occur as far as from a line

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2 loss perspective.

3 And when you measure an average line loss in  
4 the summer about 9 percent in the service territory, well  
5 that's an average number. So if you looked at it in real  
6 time, is it higher at peak, lower at trough? Absolutely.  
7 But nobody really studies and looks at it that way.

8 So my point is there are marginal costs out  
9 there through the operating. And that rolls into the as-  
10 used. And -- and getting to the point where we've had  
11 discussions with Richard Kaufmann about hey market-based  
12 pricing to drive behavior. And our argument's been with the  
13 way that they implemented the DMP incentive for storage is  
14 it's great incentive for covering the cost, capital cost of  
15 installation, but it does nothing. It did nothing to solve  
16 any of the demand charge reduction we were looking for in the  
17 summer months during that rate structure.

18 But if you can take that and build that into  
19 a function where prices were variable in the different  
20 districts within Con Ed -- because in the Con Ed networks  
21 there are different peaking times in downtown, midtown, Upper  
22 East Side, Brooklyn-Queens, varies throughout the day. And  
23 if you put price elements around that, in those areas you  
24 would reduce some of those marginal costs and you could put a  
25 structure.

We think you should take the next step and

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2   develop not only as-used by as-used hourlies through the same  
3   operating windows where they are priced by the hour for  
4   capacity, and they are priced higher for the 4 peak hours  
5   that that occurs in the system peak which, in downtown that's  
6   typically from 11 to 3, midtown 2 to 6, lower east side  
7   that's about 4 to 8, and then the residential areas it's from  
8   7 to 11 p.m.

9                           And I would just close on thinking about  
10   looking down the future. And we have all these distributed  
11   resources out there feeding into the grid. A solar project  
12   feeding into the grid at noon in Brooklyn-Queens adds minimal  
13   value than if you could have that energy used to shape air-  
14   conditioning load from 7 to 11 at night. So there's -- even  
15   though there are marginal prices for taking that energy in,  
16   we really have higher value if we could change and shape that  
17   load later in the day. And so when we look at overall  
18   marginal cost and -- and new designs in rate structures, we  
19   ought to take that into consideration because that brings not  
20   only distribution system benefits, but also societal and --  
21   and larger grid benefits in the whole.

22                           MR. PADULA: Doug, thank you for that  
23   different perspective. And I expect to probe that a little  
24   bit more with the other members of the panel as we move  
25   along.

                          Before I get into my questions, I want to

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2           have Rich just come around again and give us some overlying  
3           comments that he's been thinking about as he's been listening  
4           to the panelists and then I'll throw some questions out there  
5           for the panel.

6                           MR. SEDANO: Marco, thank you.

7                           And I had several things I wanted to say, and  
8           Doug, you touched on many of them more fine grained use of  
9           demand charge timeframes down towards daily. I hadn't really  
10          thought about hourly but I think if -- if that works, more  
11          seasonal approaches to applying demand charges. I think  
12          there is -- implicit in what you said are potentially  
13          unbundling some of the -- the charges included in the demand  
14          charges between transmission and distribution.

15                          Again, in the interest of providing the  
16          customer with some opportunity to control with actions that a  
17          customer can take, what their ultimate bill looks like, I  
18          think that's part -- a significant part of all of this is  
19          that the customers have opportunities to exert control, but  
20          they don't take them because if the tariff doesn't give them  
21          that chance, then they won't bother.

22                          I appreciate and endorse what Bill said about  
23          how performance should matter and the tariff should certainly  
24          motivate CHP customers to perform to their highest.

25                          One thing that's important in all of this  
                perhaps is the -- is the critical importance of information.

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2   The opportunity to share information between customers and  
3   utility, especially as you get into these more value-based  
4   approaches to try to identify value becomes a very important.  
5   And I -- I am also sensitive to the concern that the tariff  
6   be simple. Many of the suggestions that -- that -- that  
7   people have to improve standby rates don't necessarily  
8   simplify them unless we can use automation to smooth out some  
9   of those -- those confusions. But the -- the kind of outcome  
10   where -- where customers don't understand the rates certainly  
11   is a signal that there's a problem.

12                   And I also appreciate the -- and one point I  
13   was going to make that motivating customers to take demand  
14   response actions through -- through elements that allow for  
15   interruptible service is important. So in the end -- and  
16   perhaps it's important in a standby rate 2.0 to think about  
17   where standby rate 3.0 or 4.0 is going is that ultimately  
18   there should be some convergence with the generation that's  
19   coming from any customer that's generating anything.

20                   That standby rate solar, whatever they're  
21   generating, there should be -- start to become some  
22   convergence the principles that -- that you're going to be  
23   charged based on the value of the service that you use and  
24   you're going to be compensated based on the services that  
25   you're providing energy capacity and ancillary services.

                  That's it.

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2 MR. PADULA: Thank you, Rich.

3 And I actually share that -- that last point  
4 wholeheartedly that, you know, in the last so many years  
5 we've been talking about standby rates as a standalone rate,  
6 separate from all other rates, but as we move toward our REV  
7 vision with much more proliferation of distributed resources,  
8 the rates really just become one.

9 We really have to think about it. I -- I  
10 think about it in my head as what is the value of the grid to  
11 customers with DER, and what is the value of DER to the grid.  
12 And if we try to keep those two things in mind, I think that  
13 will help us as we move forward, both here in the standby  
14 rate process that we're envisioning moving forward and also  
15 LMP plus D process that started. They really all come to the  
16 same point sometime in the future.

17 Well, I heard a lot about that matrix or  
18 matrices. I actually brought a copy of all the matrices, Con  
19 Ed, Central Hudson, NYSEG, Orange and Rockland, and all the  
20 utilities. And every single one has different percentages in  
21 it. So it's true. There's no consistency.

22 And there's reason for that. I was involved  
23 in some of those discussions back in the early 2000s. It  
24 involved sitting in a room, bringing in utility engineers,  
25 and basically, asking them, hey, if you add a new customer at  
this location how do you look at that load as it is put upon



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2 other -- other parts of the system? Do you look beyond the  
3 substation? Do you look beyond the transformer? Do you look  
4 -- how does that impact transmission?

5 So with that perspective, I just want to ask  
6 the utility folks and then open it up to others, do you think  
7 we -- we have more system -- more system information today or  
8 should we require gathering of more system information that  
9 would enable us to do a more accurate determination of the  
10 impact of customer loads on the various components of the  
11 system that would help us get a more accurate cost allocation  
12 of cost to a contract demand, to an as-used demand?

13 You know, keeping the same structure of the  
14 standby rate, but do you think we have more accurate data  
15 today? Do we need more accurate data to do that? I just  
16 open that up to the utilities and then others to -- to -- to  
17 respond to.

18 MR. ATZL: So we've given this a lot of  
19 thought, Marco, going back to the original standby matrix.  
20 And as you may recall after the 2009 Con Edison rate case, we  
21 had a standby rate collaborative where we reviewed again the  
22 standby rate matrix. And it was a similar process to what  
23 you described.

24 We had -- we had our engineers discuss how  
25 they treat the system and how they -- how they view customers  
in terms of building the system to accept the customers'

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2 load. And if you recall, the -- the original standby matrix  
3 for Con Ed that was submitted had higher levels of contract  
4 demand in the -- in the more local parts of the system, in  
5 the secondary and in the primary, because our engineers  
6 billed to accommodate that load through the secondary and  
7 primary systems. And it was through the settlement process  
8 that -- that we came to the -- to the matrix that we have  
9 today.

10                       But another element of it is that in -- for  
11 any individual customer -- there's -- there's always a set of  
12 the specific circumstances, but in -- in the ratemaking  
13 itself we have to try and accomplish something that can be  
14 implemented on a little bit more generalized basis. And  
15 that's where the -- the matrix concept kind of rolls together  
16 that the views of -- of engineers and other parties in terms  
17 of how these costs can be allocated.

18                       But another thing to consider is that there's  
19 also a lot of discussion about benefits that the DG customers  
20 bring to the system. And our view on that is that you have  
21 your rates for electric delivery service and then benefits  
22 that DG brings to the system would be compensated separately  
23 through the DSP And I think that's consistent with the Track  
24 Two white paper from Staff, as well.

25                       So I think we have to look at it more in  
terms of the service for purely electric delivery and concern

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2 ourselves with the benefits on the other side in discussions  
3 about the DSP and the value of D.

4                       I don't know if you want to add to that,  
5 Mark?

6                       MR. MARINI: You know, as far as whether  
7 there's more granular -- granular data available, I think we  
8 have to be careful. I mean, there's probably a level you can  
9 go down to, but I'm sure there's an associated cost with that  
10 that may or may not be beneficial to get a result that  
11 somebody may not like any better than what's there today.

12                      I don't know what the right standby matrix  
13 is. I mean, each utility has something different and I've  
14 heard today that there's problem with those matrices.

15                      So you know, whether there's more granular  
16 data or better data out there, hard to say. I'm sure there's  
17 -- there -- there could be, but I'm sure there's going to be  
18 a cost associated with that and, you know, we have to balance  
19 that against the outcome and the output of that and what  
20 makes sense.

21                      What we want to do is try to design standby  
22 rates, you know, that are cost-based for each utility so that  
23 it doesn't incentivize or provide a barrier to customers.  
24 That's the ultimate goal. That's, I think, the ultimate goal  
25 per the Commission's guidelines for standby. So we have to  
do what makes sense of how each company system is planned,

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2 but I think we just need to be cautious about saying more  
3 data is going to solve a problem with getting, you know,  
4 better allocation of cost between as-used and contract.

5                       MR. BOURGEOIS: I'd like to suggest that if  
6 we don't have better data than we did 15 years ago, we  
7 probably should. And it may cost something, but it's  
8 probably worth it. Especially, if we want to get to where we  
9 want to be with REV and especially if we want to try to  
10 implement some of the things Doug was talking about, I think  
11 we really need to know at a more granular level the answer to  
12 these questions of, you know, what costs are imposed and what  
13 benefits are potentially extracted.

14                       So if we don't know any more than we did 14  
15 years ago, we probably should and it's probably worth  
16 investing in as a key component of REV.

17                       And I -- I think that, again, getting back to  
18 this complexity and transparency question, I think that's a  
19 real important issue because we -- we heard from Jonathan  
20 that Tishman Speyer, with some pretty good, you know, VBA  
21 Excel spreadsheet modelers, was having a lot of trouble and -  
22 - getting this right and kept taking it back to Con Ed and  
23 they would only point out what was inaccurate.

24                       Now, complexity maybe warranted and more  
25 complexity may be even valuable to get the right result. But  
if that is the case, I think then that we do need -- I think

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2 Rich suggested this, maybe we need tools that the users can  
3 utilize, you know, benchmarking models or some sort of a  
4 tool. And we've actually advocated for this. We've talked  
5 to Con Ed many times over about providing a tool that would  
6 allow the customer to make an investment decision with some  
7 degree of certainty in an area that maybe is complex by  
8 necessity.

9                           MR. LOUGHNEY: I'll just say real briefly,  
10 the -- I think I agree with Bill that the -- the rate should  
11 be separate. I think the cost of the delivery service should  
12 be separated from the benefits that are provided. I realize  
13 right now it's not that way because we have this -- we have  
14 this discounted rate performance credit, but that's --  
15 probably an interim measure until we get to the value of D.

16                           So I think it's fine as it is, but I do think  
17 ultimately they should be separated. I guess, to me, the  
18 ultimate goal is finding out what is the cost of serving  
19 these customers and -- and comparing that to the revenues  
20 they provide, just like all the other customers that are on  
21 the system.

22                           And you know, when we have had cost-of-  
23 service studies in the past, standby customer is not broken  
24 out. When you ask why, well, basically the answer is there's  
25 not enough of them. But on the Con Ed system in particular,  
and Bill could tell us, but I -- there must -- there must be

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2 more than a hundred, I'm thinking, customers? No?

3 MR. ATZL: No.

4 MR. LOUGHNEY: But enough to -- enough to  
5 track and to find out what the cost of service is. So I  
6 think it's time to figure out what the cost of providing this  
7 service -- these customers the services is, and then compare  
8 it to the revenue. And if there are -- I guess, the final  
9 point is because Bill did touch about this. He talked about,  
10 well, it's kind of a zero sum game if the rates go up for  
11 some, and you change the rate design, it's going to go down  
12 for others or whatever.

13 I think we have to look at and say if the --  
14 if these customers are being overcharged, then we have to  
15 live with the consequences, which means that rates may go  
16 down and other customer rates may go up. I mean, that's the  
17 way we do revenue allocation for all the other service  
18 classes. And I don't know why we have to just sort of treat  
19 the standby customers as though everything that happens has  
20 to be within that -- that class and nobody else can be  
21 affected by it.

22 MR. STAKER: Is J.P. still on the line? Does  
23 he -- any comments there?

24 MR. PADULA: J.P.? Any comment on the --?

25 MR. FLAHERTY: Yeah, I'm still on the line.  
I don't have any. I think -- I mean, I think you guys have

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2 kind of hit everything. I would just say that I think Doug's  
3 comment is really interesting, and we've actually looked at -  
4 - at -- at some battery storage with Doug.

5           And I think that it -- it is very appealing  
6 in many of the ways that we looked to go to standby on  
7 battery storage, but battery storage is a very different gig  
8 than -- I mean, I appreciate distributed generation defined  
9 broadly, but when we were looking at it, we were looking it  
10 at various varieties of engines and generating methods. And  
11 so I -- I think that Doug's comment just pointed out that  
12 it's a very complicated issue. Some people are going to lose  
13 and some people are going to gain.

14           On battery storage side, it looks quite  
15 appealing to go to standby, but it didn't look so great when  
16 we looked at other technologies. So I think it only stresses  
17 that this is a complicated issue. But I would just stress  
18 points that I made and that was just made again that it may  
19 be warranted to have such complicated things, but it can't be  
20 so complicated that we cannot model it to the utility's  
21 happiness. That -- that seems to be impossible for me.

22           And so I think that even if more complexity  
23 is warranted, there's got to be a better way to do this  
24 because as the comment that was made by Rich -- sorry -- by  
25 Tom at one point was it is very, very expensive to do this  
analysis. You can't just do this. We had to hire all sorts

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2 of people to be able to figure out how to do this.

3                         And we spent literally hundreds of thousands  
4 of dollars analyzing this and chose not to move forward.  
5 Now, good news -- bad news for us that we spent all that  
6 money and did that, but I would just caution that to go down  
7 this road with any decent size DG in the downstate region is  
8 just to get to the point that you can make an investment  
9 decision is going to cost a significant amount of money.

10                        Never mind making that investment decision  
11 and investing all the money. So that's what I want to add.

12                       MR. PADULA: Okay.

13                       MR. STAKER: You know, one point that I hear  
14 often is -- is the issue around contract demand. And in the  
15 rate, you used to have the option, I'm not sure if it's still  
16 there, Bill, but you used to have the option that you could  
17 elect what the contract value would be. If you exceeded  
18 that, then you paid pretty big penalties. We opted with  
19 going with a historic peak.

20                        One of the things that we proposed is that  
21 contract demand should be based off of a rolling measured  
22 peak demand after the fact. So instead of going back to the  
23 historic peak -- because that's the right incentive to incent  
24 us to help the building just historically start to reduce its  
25 max capacity and to ensure that, you know, much like what  
they're doing with the performance measurements right now,



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2 just to make that contract value roll with the improved  
3 overall peak reduction in a rolling fashion, which -- which I  
4 think is a very reasonable approach to finding a level of,  
5 you know, agreement here around the contract piece.

6           Everybody is worried about, yeah, but that  
7 one day that we're going to have to step in and serve you,  
8 you're going to hit that big peak. Well, we have to have the  
9 incentives to put and manage that load effectively. And  
10 that's one way to do that, through a reduction and contract  
11 peak value through rolling. I think that's a good way to  
12 look at things going forward.

13           MR. PADULA: Does Bill or Mark have any  
14 comment on it?

15           MR. ATZL: Yeah, I would just add that the  
16 utility system has to be built to accommodate that customer's  
17 load if their DG fails. Whether -- if they perform well over  
18 24 months and they haven't really taxed the system, that's  
19 fine. Yet, the system still has to be there, at least the  
20 local facilities, to take on that load if the customer's DG  
21 fails.

22           And the -- the Con Edison tariff and the  
23 other utility tariffs do have provisions for reducing  
24 contract demand in the case where there is some permanent  
25 measures or equipment removed, things like that. And the  
performance credit actually is developed as a form of that.

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2 It was -- it was meant to be a mechanism that compensated a  
3 customer for performance that was high enough to be  
4 considered, similar to a permanent reduction in demand. So  
5 there are methods to reducing contract demand, but there has  
6 to be some, you know, greater assurance that it can be  
7 achieved.

8 MR. MARINI: And I agree with everything Bill  
9 said. I would just add that, you know, a lot of times we  
10 hear the contract demand is too high or is a barrier. I can  
11 tell you on our system, you know, the as-used demand for one  
12 of our companies is the much higher component for customers.  
13 And that just goes to, I think, how -- you know, we don't  
14 know how the customers size their generation, you know, how  
15 they use it, if they add load, if they're adding more  
16 generation or utilizing utility system more.

17 So we have to be there to serve them for the  
18 peak load or the connected load unless there's a permanent  
19 reduction, and there's provisions in the tariff to allow for  
20 that. But, you know, a lot of how a customer uses the  
21 generation, obviously, is up to the customer. And I think we  
22 just got to be careful not to assume that the contract is --  
23 is a problem.

24 As Bill mentioned earlier, you know, you're  
25 going to switch cost between contract and as-used. There's  
certain customers that are going to be affected negatively by

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2           that. So you want to get the cost right. I don't disagree  
3           with that. But you also want to make sure that you just  
4           don't say contract is too high without knowing what it could  
5           affect.

6                         MR. PADULA: On this contract demand issue, I  
7           just want to ask customers if you would be amenable to an  
8           automated demand response that is controlled by the utility  
9           to reduce your contract demand, something similar to like an  
10          interruptible gas rate? Just wondering from the perspective  
11          of the customer if that would be something of interest?

12                         Any customers have a comment on that?

13                         MR. LOUGHNEY: So it would be -- you have a  
14          contract demand that would be reduced to some number less  
15          than what the utility might set it at, but if -- let's say  
16          it's 50 percent you would have -- the utility would have some  
17          ability to reduce the demand --?

18                         MR. PADULA: To ensure that you would never  
19          go beyond that amount.

20                         MR. STAKER: It's load limiting --

21                         MR. LOUGHNEY: Right.

22                         MR. STAKER: -- is what you're looking for?

23                         MR. LOUGHNEY: I don't know. I mean, I don't  
24          think I've ever talked with anybody about it. Maybe J.P. can  
25          talk about it. I mean, I think that it might work for some  
                customers, you know, depending on what their application is

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2 and -- and their ability to shed load, close down facilities,  
3 or whatever. It might provide an option that might be  
4 attractive and, you know, a way of limiting the cost of the  
5 contract demand, so --

6                   MR. PADULA: Right.

7                   MR. LOUGHNEY: -- it's probably something  
8 that some people would like.

9                   I don't know if J.P. has any thoughts on it?

10                  MR. FLAHERTY: I can just quickly say that  
11 that would be appealing where we have more sophisticated  
12 abilities to shed load, but in a standard regular office  
13 building for -- to have it be automatic, we wouldn't support  
14 -- we wouldn't go down that road just because we needed to  
15 put our customers first.

16                  And so if it's an automatic and we didn't  
17 have any control over what occurred -- I mean, obviously we  
18 would have an agreed upon amount, but even then we need time  
19 and -- and I mean, obviously, the devil's in the details in  
20 terms of is it a 3-hour notice, 24-hour notice, et cetera,  
21 but if it was automatic and we had no choice at a regular  
22 office building, that would not be appealing.

23                  In larger complexes like Rockefeller Center,  
24 where we have aggregated loads and abilities to shift loads  
25 around and have an ice, chiller plans and other things, that  
would probably be more appealing, but there aren't that many

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2 of those scenarios in New York City.

3                       MR. PADULA: Thank you for that perspective.

4                       There was a lot of discussion about the  
5 revenue neutrality provision. And if you go back and look at  
6 the Commission opinion 01-4, the standby rate guidelines  
7 document from 2001, I read that as, you know, to quote, the  
8 Commission said pending appropriate cost of service analysis,  
9 cost now allocated to each service, standard service class  
10 will serve as the basis of the -- of the design of the class-  
11 specific revenue neutral standby service delivery charges.

12                      So that seems to me that it was a -- it was a  
13 proxy for some -- some information that we didn't have at the  
14 time. And I'm wondering what -- from the utility perspective  
15 and others, what you think about the idea of trying to come  
16 up -- develop a proxy for the load characteristics associated  
17 with a customer with DG.

18                      And maybe use some existing data that's out  
19 there, like Tom was alluding to, to come up with here -- here  
20 -- here is the load characteristics of what we would call a  
21 standby customer class and then allocate cost to that class  
22 in the same way that we allocate cost to the other customer  
23 classes in an eco-study.

24                      I just want to hear a little bit from the  
25 utility's perspective if you think that -- first, if that --  
if that's something that's reasonable and if it -- if you

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2 think that that would result in a different bundle of costs  
3 allocated to the class?

4                       Because right now, we're assuming that all  
5 the class -- all the costs allocated to SC 9 must be  
6 collected. And those are the same costs that would be  
7 incurred if all those customers were on standby rates. But  
8 in fact, that may not be the case if the load characteristics  
9 of the standby customers didn't match those of the class.

10                      I'm just wondering your -- your perspective  
11 on that?

12                      MR. ATZL: Our read of the order is basically  
13 the same as yours. And you know, we've also recognized that  
14 we think the Commission had envisioned ultimately that there  
15 could be a separate class of standby customers when there was  
16 enough customers to form that class. And Bob alluded to  
17 that, as well. And for Con Edison we, at this point, have 37  
18 standby customers. It's still a fairly small number. They  
19 are more accounts because some of the customers have multiple  
20 accounts, but there's 37 customers.

21                      And one of the concerns we always have in  
22 having what we would refer to as a small customer class is  
23 the volatility of cost study results from one to another.  
24 And we've -- we have experienced that in other areas. And --  
25 you know, and that's the main concern is that potential  
volatility. So you could -- you know, you could do it, you

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2 could do at once, and then you might find that the next time  
3 you do it, the results can be significantly different.

4                       I just wanted to add to that.

5                       MR. PADULA: Just one question on that. So  
6 we actually -- you actually have data. Do you have the same  
7 level of data from all your 37 standby customers as you would  
8 be getting from a load research meter?

9                       MR. ATZL: I don't think I can answer that  
10 for you right off -- on the spot. For -- for the larger  
11 ones, we certainly do because the very largest are on  
12 mandatory hourly pricing. When you drop below that  
13 threshold, I don't know if what we have would constitute a  
14 statistically valid sample. And we can discuss that with you  
15 some more in the future, certainly.

16                      MR. PADULA: Just curious. So I'm wondering  
17 how the numbers look upstate and if the same low number of  
18 customers is an issue?

19                      MR. MARINI: We have about 32 to 34, I  
20 believe, customers at NYSEG under standby service, and about  
21 22 at Rochester. You know, I think -- you know, I was there  
22 in 2001, as well. And you know, there was very little data  
23 on this.

24                      I think the reason the Commission set up the  
25 standby rate analysis, you know, or the calculation of  
standby rates the way it did was because there was no data.

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2   And you had to make an assumption that absent, you know, load  
3   characteristics or cost data, we're going to assume that  
4   every customer was served under the standby rate structures  
5   because you had, you know, standard rate structure. And to  
6   get the same amount of revenues, you would collect, assuming  
7   everybody was under standby.

8           So I think it was a reasonable approach, at  
9   least at the time, you know, until, you know, you can get  
10   either more data or something materialized.

11           My concern, you know, is that -- you know,  
12   you said a proxy of -- proxy to -- to develop, you know, what  
13   a standby customer looked like by class. And I just think it  
14   would be very difficult to get what a typical standby  
15   customer is going to look at. Like I said earlier, we don't  
16   -- you know, we don't always know from year to year a  
17   customer may not use their generation the same way. They may  
18   rely more or less on the -- on this -- on the system at  
19   times, depending on, you know, various circumstances.

20           I -- I know we've done analysis looking at  
21   the types of customers we have and it ranges all over the  
22   place. We have customers with a -- you know, large  
23   generators with large contract demands, large generators with  
24   very small contract demands. Some have generators that can  
25   cover all their load, some cover part of their load. So you  
  really have a diversity of -- of the kinds of customers that



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2           you serve. And you know, you can -- you can attempt to -- to  
3           some kind of cost study and say we'll allocate based on this  
4           proxy, but I bet you'll get into arguments on cost  
5           allocations just like we do for standard classes when you do  
6           that.

7                         MR. PADULA: Thank you.

8                         MR. LOUGHNEY: I guess my problem is that I  
9           don't -- so we don't know -- I think what we're saying is we  
10          don't know that we're charging the right rates to these  
11          customers. If we try to find out, it may be difficult and  
12          may end up affecting some customers one way or the other, but  
13          that happens with every decision that's made on revenue  
14          allocation and rate design. And I -- I, you know, just to  
15          say we're not going to do it because it might end up  
16          affecting somebody one way or the other, I don't think is  
17          acceptable.

18                         I mean, to some extent, the way people are  
19          operating their facilities now is probably a byproduct of the  
20          fact that -- that you have the rate design that you do. And  
21          if you change the rate design, then there may be a change in  
22          the way that people operate their plants and they may run  
23          them more consistently or something. But I don't -- I don't  
24          think it's the right answer to say we -- we can't -- if we do  
25          this, it's going to be a problem for some customers and that  
                that -- there's always ways to deal with that on rate design.

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2 You guys know better than I do. I mean, you  
3 moderate the impacts. You can change the design a little  
4 bit. You could phase it in, whatever. I mean there's all  
5 different ways to moderate it. So that's -- I would say that  
6 I think it still should proceed.

7 MR. MARINI: You can -- yeah, that's true,  
8 Bob, and you could. You know, you could make an effort to --  
9 to do that. But, you know, we -- I can tell you in standard  
10 rate design, you get into those same discussions. No  
11 different.

12 So you can get into the same discussions but  
13 oftentimes you end up negotiating that, as well. So it  
14 becomes, I think, another negotiation at some point is all I  
15 want to say. And maybe that's okay and maybe that's  
16 necessary at times, but that's how the original standby  
17 matrix was done, too.

18 So I'm not sure there's just a solution out  
19 there, is what I'm saying, that says it's going to just take  
20 care of what you don't like today.

21 MR. LOUGHNEY: If we get -- if we get to the  
22 end of a rigorous analysis of determining that the current  
23 standby matrix is hundred percent accurate, then I will back  
24 off.

25 MR. STAKER: Marco, just answer the question  
you posed to Bill. In a previous life, I worked for the

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2 company that put in the meter data collection system for Con  
3 Ed. And they have about 1500 meters that are under interval  
4 data that would suffice for a study.

5                         Now, as we go through the interconnection  
6 process with Con Ed, one of the requirements is that we do  
7 put in interval metering into that device after we go on to  
8 that rate. So we're in the process right now of automating  
9 those meters in the installations we're doing today.

10                        And that's one of the things that I hear in a  
11 lot of the proceedings here is that these projects and what  
12 we save the end users, we can afford -- we actually put our  
13 own metering in. I've been trying to argue that the revenue  
14 grid metering, we should be able to supply that information  
15 to the meter data management system, but there's a little bit  
16 of, you know, fox guarding the henhouse discussion there. So  
17 I understand that.

18                        But the metering cost to collect that  
19 information, especially on commercial customers, is not that  
20 cumbersome and -- and should be -- that should be the first  
21 layer of customers attacked as far as data collection. And  
22 the information's there. We actually use in in our business  
23 today. We have access to Con Ed's customer care system. And  
24 that's how we'll go in and analyze some of these larger  
25 commercial accounts to decide whether there -- the load is  
right for storage or not.

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2                   MR. BOURGEOIS:  And I'd just like to finish  
3 with this statement that it seems to me that the data is  
4 probably there.  The Commission order did leave open this  
5 placeholder or potential look at this issue.  And I -- I  
6 agree with Bob, you know, we should -- we should look at it,  
7 find out how -- how accurate these -- these allocations are.

8                   We have the information.  We have the  
9 Commission order suggesting it would happen at -- perhaps  
10 should happen at some time.  I think it would be reasonable  
11 to do that.

12                   MR. PADULA:  Thank you.

13                   Should we move to the questions, either here  
14 in Albany or at one of our satellite locations or on the  
15 phone?

16                   We'll start in Albany?  Any questions here?

17                   MR. LEONARD:  Ron Leonard.  So I have a  
18 question for you.

19                   MR. PADULA:  Sure.

20                   MR. LEONARD:  How much did Thomas Edison  
21 charge its customers per kilowatt hour?  I have the answer  
22 for you.  32 cents a kilowatt hour.  So you now can talk to  
23 your boss and tell her that you have stopped the increase in  
24 cost in the Con Ed territory for 115 years.  You're going to  
25 get a raise.

                  So this discussion was worth the price of

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2 admission for me. And this is, you know, a key thing in  
3 terms of fairness to consumers, ratepayers, DG.

4                       And Tom, to your discussion of do we have the  
5 data, I happen to have personally seen that we do have the  
6 data and I saw it on an iPad, an entire utility in 3D  
7 rendered on the iPad by the utility, could walk around in  
8 neighborhoods, check phasers, switch circuits. The data is  
9 there. That's not an issue. Done deal. And that was 5  
10 years ago. We got better iPads now.

11                      So the real comment that I have here is  
12 fairness. And I -- I -- you know, we brought up the chicken  
13 or the egg theory of this thing. I'd like to bring that to  
14 you, the absurd conclusion. Say you decided that you wanted  
15 to have chickens at your house so you could have eggs. And  
16 the PUC locally, that's the Poultry Utility Commission,  
17 decided that you would have to have a standby fee for your  
18 local grocer so you could buy those eggs someplace else if  
19 your chickens just stopped laying those eggs and, you know,  
20 that's just the way it is.

21                      Fundamentally, that's nuts. And what people  
22 will do when they're faced with a fundamentally bad equation  
23 is to vote with their feet. Durst did that.

24                      Do we want to make the choice of making a  
25 system that's fair and equal and useable for all parties, or  
wait until people are pissed off enough to vote for with

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2 their feet and cause problems for everyone? This is a  
3 solvable problem.

4 This is a problem that I was faced with  
5 personally in the 1980s when we got into the cogeneration  
6 business. This is the problem that we've seen for 3 decades  
7 after that. We need to, you know, ratchet it up, face the  
8 issue, figure out that, fundamentally, this situation is not  
9 equitable, and deal with it on a Commission basis and have a  
10 ruling that says that DG is limited in this area to this type  
11 of a fee, or take the fee and get rid of it, because what we  
12 should be doing is looking at value of energy on the grid.  
13 And this is the 32-cent number again.

14 Richard Perez -- Dr. Richard Perez, from the  
15 Atmospheric Sciences Labs, did a study on what's the value of  
16 solar on the grid, a decade ago. Guess what? It's 32 cents,  
17 kilowatt hour. It's a real value for DG on the grid that  
18 really this whole discussion ignores. And it's fundamental  
19 to the equation of fairness of this type of system being out  
20 there.

21 Previously I alluded to the fact that FERC  
22 says that we only get 20 percent of the energy that we take  
23 out of fuel and deliver in electricity. That's nuts. Put  
24 electricity in the load pocket, you get much more use out of  
25 the energy that you are using to produce that electricity.  
We can't afford this type of waste. We can't afford it,

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2 economically. We can't afford it from -- in terms of  
3 pollution.

4                       And we also really need to consider a safety  
5 factor involved in the grid that we have which is antiquated  
6 and vulnerable. Let's put it that way. Let's make ourselves  
7 a little bit more secure. Let's lock DG in the load pocket.  
8 Let's make this fair for everyone.

9                       MR. PADULA: Thank you.

10                      Anyone else with a question in Albany?

11                      Any questions from the satellite locations?

12                      Any questions on the phone?

13                      MR. BOURGEOIS: It must be Friday afternoon.

14                      (Off-the-record discussion)

15                      MR. PADULA: I just want to thank the panel  
16 for coming and sharing your thoughts. It's been very  
17 educational and useful to us and the people who have been  
18 participating. And thank you to everyone for participating  
19 and all of the other panels, yesterday and today.

20                      Thank you.

21                      (The conference concluded at 3:27 p.m.)  
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25

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2   STATE OF NEW YORK

3   I, Hannah Allen, do hereby certify that the foregoing was  
4   reported by me, in the cause, at the time and place, as  
5   stated in the caption hereto, at Page 259 hereof; that the  
6   foregoing typewritten transcription consisting of pages  
7   259 through 489, is a true record of all proceedings had  
8   at the hearing.

9                           IN WITNESS WHEREOF, I have hereunto  
10   subscribed my name, this the 5th day of February, 2016.

11

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13   Hannah Allen, Reporter

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