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Federal Energy Regulatory Commission

Technical Conference on Implementation Issues Under  
The Public Utility Regulatory Policies Act of 1978

Docket No. AD16-16-000

June 29, 2016

9:00 a.m.

888 First Street, NE  
Washington DC 20426  
Commission Meeting Room 2C

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P R O C E E D I N G S

(9:05 a.m.)

MR. GREENFIELD: Good morning. And welcome to today's conference on the Public Utility Regulatory Policies Act of 1978, or PURPA, as it is affectionately known. I'm Larry Greenfield and I am the Associate General Counsel in the Office of General Counsel here at the Commission. And to my left is Julie Simon, Senior Policy Advisor with the Office of Energy Market Regulation.

We will be leading the Technical Conference today. I do want to thank all of the participants, both in this panel and this afternoon, for being here and for what I'm sure will be an informative day of discussion on this topic.

I also want to thank the Commissioners, Commissioner LaFleur and Commissioner Clark, who are seated to my left. The purpose of this conference, of course, is to obtain information and examine the Commission's implementation of PURPA in light of recent developments in electricity markets.

In the morning, we will focus on issues related to the mandatory purchase obligation. After lunch, we will focus on various methods for calculating avoided costs. This Technical Conference will not, however, address any statutory changes to the law.

1           While we have included a number of pending  
2 matters in the notice of this Technical Conference, which we  
3 issued a supplemental notice on the other day, the  
4 Conference is not for the purpose of discussing specific  
5 cases. Thus, panelists should refrain from discussing the  
6 specifics of any cases pending before the Commission to  
7 avoid any ex parte concerns.

8           We will begin each panel with brief statements  
9 from each of the panelists. We ask that you limit your  
10 opening remarks to three to five minutes, so that we have  
11 adequate time for discussion. We will then move to a  
12 question and answer format. We will not necessarily be  
13 addressing all questions to all of the panelists in a given  
14 session, but rather we may direct questions to particular  
15 panelists in order to discover specific information that  
16 will help the Commission staff, and ultimately the  
17 Commission better understand the issues presented to us.

18           This is an on-the-record conference and it will  
19 be transcribed. Any materials received from speakers will  
20 be included in the record. As noted, we will have two  
21 sessions today. The first session on issues related to the  
22 mandatory purchase obligation is scheduled to run until  
23 approximately noon.

24           This session addresses when a QF can be  
25 curtailed, the impact on interconnection of QF transactions,

1 the obligation to purchase pursuant to legally enforceable  
2 obligations, or LEOs, and the effect the emergent energy  
3 imbalance market in the West may have on the mandatory  
4 purchase obligation.

5           The second session is scheduled for roughly 1:00  
6 to 3:30, and we'll discuss various methods for calculating  
7 avoided cost, including the system average method, the use  
8 of natural gas prices and other fuel indices and setting  
9 avoided costs, and setting avoided costs through auctions  
10 and/or requests for proposals.

11           We do have a lot of ground to cover in a  
12 relatively short amount of time today. With that in mind,  
13 if the discussion begins to stray outside the scope of the  
14 panel or outside the scope of the question, we may interject  
15 to bring the discussion back to the topic.

16           And let me close with a few housekeeping  
17 matters. Please, per Commission policy, do not bring food  
18 or drinks, other than bottled water, into the Commission  
19 meeting room. Please turn off your cell phones, if you have  
20 not already done so. And there are bathrooms and water  
21 fountains located behind the elevator banks on each side of  
22 the building for those of you who have not been here before.

23           For panelists, if you would like to be  
24 recognized to speak in response to a question or a comment  
25 said by another speaker, please do place your tent up. Also

1 when you are speaking, be sure to turn on your microphone  
2 and speak directly into it. When you're not speaking, do  
3 please turn off your microphone to minimize background  
4 noise. I realize that can be difficult to remember, but do  
5 your best to avoid forgetting what to do with the  
6 microphone.

7           Also, while it can be difficult to do this  
8 particularly, myself and others, do your best to avoid using  
9 acronyms or abbreviations. With that, I would like to turn  
10 it over to the Commissioners, Commissioner LaFleur and  
11 Commissioner Clark, for their introductory remarks.

12           COMMISSIONER LAFLEUR: Well, thank you very  
13 much, Larry. And thank you to everyone on staff for pulling  
14 together such a quality conference. I am really happy to be  
15 here. This is a topic, very timely, that I'm very  
16 interested in. I'll try to be here for as much of the day  
17 as I can, bearing in mind that we haven't left this room  
18 since Monday morning.

19           It's somewhat sobering to think that I've been  
20 involved in PURPA in some way, shape or form since the  
21 mid-80s. I was actually closely involved in writing one of  
22 the very first PURPA contracts up in the New England area,  
23 the interconnection group worked for me, the new  
24 interconnection group. Because that was such a scary  
25 thought, whatever an interconnection was.

1           And I think it's worth reflecting that, in many  
2 ways the law we're talking about today gave rise to so many  
3 of the changes that have shaped and royaled this industry  
4 over the last decades, the growth of the independent power  
5 industry, the birth of so many renewables and so forth.  
6 Those same changes that PURPA helped spawn have made PURPA  
7 administration a lot more challenging and I'm sure that's a  
8 lot of what we're going to talk about today.

9           Since being at FERC, I've tried to faithfully  
10 execute the law, being mindful that it was reaffirmed by  
11 Congress as recently as 2005. I just want to underscore  
12 something Larry said. What would be most helpful, at least  
13 to me and building the record would be suggestions for any  
14 action that you want FERC to take to change our work on this  
15 or strengthen or anything else, not calls for statutory  
16 change, much as we're interested in your thoughts, you have  
17 to go up the Hill for those, because we don't have that kind  
18 of power. Thank you very much.

19           COMMISSIONER CLARK: I do wish to thank everyone  
20 for being here today, and thanks to Chairman Bay for  
21 scheduling this conference, and to staff for all of your  
22 work pulling it together. I'm wearing my purple tie in  
23 honor of PURPA today. I'm looking out there. Mr. Hughes,  
24 you get a gold star. I don't know if I see a lot of other  
25 purple ties or clothes, but if you do, congratulations.

1           PURPA, much like myself, was born in the 1970s,  
2 and things do change over time. When it was first  
3 introduced, a lot of the technologies that we're probably  
4 going to be talking about today were very boutique-y in  
5 nature and PURPA was, in essence, a foot in the door for  
6 some of these technologies.

7           But things evolve over time. Technologies  
8 changed. Markets change. The nature of the size of things  
9 like wind farms that get sited, change. And so as all of  
10 that happens, it always makes sense for us as regulators for  
11 those things that are within our power to make sure that at  
12 least those aspects of the regulation that we have control  
13 over. And there are lots of things that are in the statute  
14 that we don't.

15           But at least those things that we do have  
16 control over make sense in the context of the way things are  
17 working today and making sure that they're working for the  
18 benefit of consumers, which is really what, at the end of  
19 the day, we're concerned about.

20           So I think that the record that we're going to  
21 help develop will be very useful in that regard. We're  
22 hearing anecdotally concerns from various parts of the  
23 country, especially, I think, in the West, probably is where  
24 we've heard a lot of the concerns with regard to PURPA and  
25 certainly the number of cases that we've seen have tended to

1 be, in large part, from that region of the country.

2           So I think it'll be especially helpful to put a  
3 little meat on the bones, to understand a little bit better  
4 exactly what the concerns are -- what's working with it, but  
5 also what may need to be tweaked. So I also would share  
6 Cheryl's admonition -- to the degree you can, be as specific  
7 as you can about what you would like the Commission  
8 specifically to do, if anything, to either strengthen it and  
9 make it work better or to tweak it so that it acknowledges  
10 the changes that have taken place over the decade since  
11 PURPA has been in effect. Thank you.

12           MR. GREENFIELD: And with that, I will turn it  
13 over to Julie Simon, who will be leading the morning panel.

14           MS. SIMON: So thank you all for being here  
15 today. If it's Wednesday, it must be PURPA and FERC's Tech  
16 Conference Week, so with that, I'm going to ask each of the  
17 speakers to give a brief opening remark. After about five  
18 minutes, Adam Alvarez will let you know that you should be  
19 wrapping up. And then we will turn to questions. So with  
20 that, Mr. Bayless?

21           MR. BAYLESS: Thank you very much. My name is  
22 Charlie Bayless and I'm here on behalf of the North Carolina  
23 Electric Membership Corporation. North Carolina is  
24 currently one of the fastest growing renewable states in the  
25 U.S. There's thousands of megawatts of solar and wind



1 planned for the state in the future. There's hundreds of  
2 projects in the interconnection queue right now.

3 Many of NCMC's members -- we have twenty-six  
4 distribution co-ops -- participate in the development of  
5 renewables, either through community solar partnering with  
6 QFs to promote economic development in the world communities  
7 that they operate in.

8 However, as one of the fastest growing renewable  
9 states, we also have concern about the effects of the  
10 mandatory purchase obligation and the impact of infusing  
11 large amounts of variable generation into the operation of  
12 the grid.

13 When PURPA was first enacted, QFs were trying to  
14 get a foot -- or renewables in general, were trying to get a  
15 foothold into the market. A lot's changed since then. In  
16 2015, wind and solar accounted for 61% of new generation  
17 built. In 2016, the EIA expects sixteen of the twenty-six  
18 gigawatts of generation to be built, will come from  
19 renewables. And finally, the EIA expects this year that  
20 about 14% of the total megawatt hours generated would come  
21 from renewables.

22 Because of the prevalence of renewables, the  
23 mandatory purchase obligation, I think, needs to be  
24 revisited. It's time to go past the simple requirement to  
25 purchase renewables and consider the need for the renewables

1 and the costs associated with the renewables.

2 I think this is especially true in states that  
3 have RPS requirements. Requiring utilities to purchase from  
4 QFs in these states, in addition to their RPS goals --  
5 sometimes they align, sometimes they're in addition to --  
6 could have unintended consequences and impose additional  
7 costs. First, the reliability may be affected.

8 The grid has the ability to absorb a certain  
9 amount of generation, but after you reach a tipping point,  
10 it may affect the reliability of the grid. At this point,  
11 once you reach a certain saturation, you have to plan this  
12 generation into the system better. You have to look at  
13 things such as reserves, generator inertia, VARs, things  
14 like that, then make sure the system remains reliable.

15 These problems are exacerbated by the mandatory  
16 purchase obligation because under that, renewables are  
17 usually sited where it's most economical for the QF, not in  
18 places where it's best for the system overall. So in the  
19 end, I think the mandatory purchase obligation needs to be  
20 reconsidered, and look at the best operations for the grid  
21 as a whole, instead of just forcing utilities to purchase  
22 from QFs. And that will ensure that renewables are planned  
23 for, all costs are considered, and the cost to consumers  
24 remain equitable. Thank you very much.

25 MS. SIMON: Thank you. Mr. Bloom?

1           MR. BLOOM: Good morning. My name is Jerry  
2 Bloom and I'm here this morning on behalf of the California  
3 Cogeneration Council. We represent gas-fired facilities  
4 operating throughout California and these facilities  
5 operated are located with industrials, manufacturers and  
6 institutions such as schools, hospitals, prisons.

7           I'm feeling a little old today, because my  
8 experience with PURPA started in 1970s when I was in law  
9 school, when I worked as a legislative assistant, and then  
10 worked on the FERC implementation regulations and then  
11 throughout the country before Public Service Commissions who  
12 were implementing PURPA. Needless to say, I have a long  
13 history with these issues.

14           From my experience, I can say unequivocally,  
15 without PURPA the mandatory purchase obligation, avoided  
16 cost pricing and nondiscriminatory backups, standby and  
17 maintenance service, we would not have an independent power  
18 industry, and as the Commissioner just said, we wouldn't  
19 have had led to the deregulation and the competitive markets  
20 that exist in many parts of the country.

21           As I reviewed the opening statements filed by  
22 participants and Mr. Bayless' last comments, I want to make  
23 one thing perfectly clear up front. What we're hearing  
24 about over and over again, and all the comments that were  
25 filed, in terms of mandatory purchase obligation, no one has

1 identified CHP, combined heat and power cogen as the  
2 problem.

3           If we have issues that have developed as we go  
4 through the references, no one can be taking a position,  
5 they should be taking a position that all of the QFs are  
6 assembly situated. In fact, CHP is a very different set of  
7 issues before it today. The legal and the regulatory  
8 environment is unique and vastly different -- there are no  
9 renewable portfolio standards. There are no -- similar to  
10 what exists for renewables in many of the states.

11           And as we go forth and as FERC goes forth this  
12 morning, it's really important, and after this morning, for  
13 them to look at the differences between CHP QFs and  
14 renewable QFs and looking at what we need to do.

15           Having listened to the recent presentations  
16 before this Commission at a meeting from the National Labs  
17 across the country regarding grid modernization, the  
18 Commission is already aware that CHP, as a distributed  
19 generation resource, makes significant contributions to grid  
20 stability, reliability and emissions reduction. It is also  
21 a key and valuable tool in mitigating the intermittency of  
22 renewables.

23           In short, CHP is universally seen as a key  
24 component of our nation's energy future. Despite this  
25 universal acceptance, without PURPA and particularly the

1 mandatory purchase obligation, it is likely that we will see  
2 no contribution from new or additional CHP as envisioned by  
3 the National Labs that testified or presented to the  
4 Commission recently.

5           However, as we look today at the obstacles, and  
6 what's striking to me, having fought these battles in terms  
7 of CHP and QFs for so long, that today PURPA is no less  
8 relevant than it was in 1978. Whether the markets have been  
9 deregulated or not, PURPA continues to be the cornerstone  
10 for alternative energy development.

11           Yes, markets have evolved and are considerably  
12 more complex. Yes, independent power industry is no longer  
13 nascent. Yes, there are RPS renewable programs in many  
14 states across the nation. However, the obstacles today are  
15 no less daunting than they were in 1978. In fact,  
16 particularly for CHP QFs, they may be more daunting.

17           Utilities continue to resist entering into  
18 contracts with CHP QFs and avoided cost pricing is more  
19 complex, not less complex. Where markets exist, and this is  
20 a key and important point, where markets exist, they are not  
21 for the long-term purchase of capacity and energy and  
22 particularly, there are no markets for the base-load  
23 products associated with CHP operations.

24           In my opening statement, I provided specifics  
25 regarding our experience in California. We eliminated the

1 mandatory purchase obligation as part of a CHP settlement  
2 reached in 2010 between the utilities, the consumer groups  
3 and the CHP advocates.

4 I can tell you, based upon our experience there,  
5 that there is virtually no, or there has been no, to our  
6 knowledge, development of CHP, once we eliminated the  
7 mandatory purchase obligation. What we have remaining is  
8 the mandatory purchase obligation for under-20 megawatts.

9 If, in fact, we eliminate that, we will not see  
10 CHP beyond in-the-fence operations which serve just the  
11 thermal host and the load. For industrials and  
12 manufacturers that have large thermal loads that create  
13 excess energy, there simply isn't any place -- there are no  
14 viable options as to where you place that electricity,  
15 except for the sales under the PURPA.

16 PURPA, thus, is absolutely key to the  
17 continuation of CHP to the operations of CHP, and if we're  
18 going to meet the goals and use CHP, in terms of grid  
19 stability reliability mitigation, all the reasons that I  
20 mentioned earlier and it's key that we maintain PURPA and  
21 the mandatory purchase obligation.

22 And the key which I started with, which I just  
23 want to close on, is CHP is very different in terms of the  
24 way it's situated, as compared to renewables. There's a  
25 whole different set of compelling issues and we need to

1 segregate that out.

2           We are not advocating here that we get rid of  
3 the mandatory purchase obligation for renewables and keep it  
4 for CHP, but we are saying, when we look at the issues,  
5 you've got to distinguish between the two groups and what's  
6 happening in the markets and the comments filed by all those  
7 who are in opposition, are taking positions in terms of the  
8 problems with too much renewable energy and how that's  
9 handled in the system, need to be accounted for when we do  
10 that. Thank you.

11           MS. SIMON: Thank you. Before we go to our next  
12 speaker, I noticed the chairman has joined us. Mr.  
13 Chairman, do you want to make any opening comments? Okay.  
14 Then we'll go with Ms. Bowman.

15           MS. BOWMAN: Good morning, Commissioners and  
16 staff. My name's Kendal Bowman. I'm Vice-President,  
17 Regulatory Affairs Policy. I'm here speaking on behalf of  
18 Duke Energy Corporation. I thank you for the opportunity to  
19 be a part of this panel.

20           Duke Energy's regulated utilities serve over 7.4  
21 million retail customers across our service territories and  
22 several million more via our wholesale power cells. The  
23 cost and reliability impacts of PURPA purchases impacts all  
24 of these customers. That's why today's Technical Conference  
25 is so important. I respectfully ask you to keep these

1 millions of customers in mind as you consider the  
2 implications that an unconditional mandatory purchase  
3 obligation has on customer rates and reliability.

4           We show in our file of comments that even four  
5 decades later, the foundational principles of PURPA hold the  
6 key to an implementation that best serves customers.  
7 Congress intended PURPA to be implemented based on an actual  
8 need for energy and new capacity.

9           Furthermore, in Order 69, the Commission said  
10 that determining avoided cost rates required taking into  
11 account the relationship of energy or capacity from a  
12 qualifying facility to the purchasing electric utilities  
13 need for such energy or capacity. Unfortunately, these  
14 principles and the needs-based application of PURPA, have  
15 been lost or forgotten by many in the industry.

16           With the passage of time, the implementation of  
17 PURPA seems to have morphed into a developmental tool for  
18 QFs with an unconditional mandatory purchase obligation on  
19 utilities without regard to actual needs. The  
20 implementation of PURPA should return to its founding  
21 principles of energy conservation, resource efficiency, just  
22 rates for customers and improving, not impairing, system  
23 reliability.

24           Specifically, QFs should be incorporated into  
25 utility generation portfolios based on actual needs, not



1 unconditional purchases. The obligation to incorporate QFs  
2 into the system should arise after the utility has  
3 identified and committed itself to a need for energy or  
4 capacity. Like all other generators, QFs should contribute  
5 to system reliability and parallel operations with  
6 utilities.

7           And finally, rates should be established through  
8 bona fide offers in a non-discriminatory process. Also,  
9 some of the Duke Energy utilities operate in the PJM and  
10 MISO organized markets. For those markets, the Commission  
11 should remove the 20-megawatt purchase obligation threshold.  
12 Generators in those markets have access to the organized  
13 market and direct access to sales into those markets.

14           Selling into the organized markets based on  
15 signals to the market, that the markets provide, promotes  
16 rational decision-making and beneficial siting of generating  
17 capacity. By removing this 20-megawatt threshold, the  
18 Commission can ensure that no generator receives  
19 preferential treatment. Just as other generators must offer  
20 their output into the market, QFs should be required to do  
21 so by directly selling into those organized markets.

22           The Commissions' orders and regulations guide  
23 and provide strong signals to State Regulatory Commissions  
24 who implement PURPA in each of their states and  
25 jurisdictions. It also provides signals to the organized

1 markets. We at Duke Energy respectfully ask this Commission  
2 to propose an issue regulations and orders that re-assert  
3 the founding principles of PURPA and the application of a  
4 needs-based approach. Thank you for the opportunity to be  
5 on the panel and I look forward to questions and answers.

6 MS. SIMON: Thank you. Ms. Chappelle?

7 MS. CHAPPELLE: Thank you. Thank you, Julie.

8 And thank you for the opportunity to be here today, Chairman  
9 Bay and Commissioners LaFleur and Clark. My name is Laura  
10 Chappelle and I want to make sure that I get a couple of my  
11 written comments in as I tend to talk off the top of my  
12 head.

13 But let me just open by saying that this is a  
14 crucial time in Michigan for PURPA issues. I was at the  
15 Michigan Commission for six and a half years and during my  
16 tenure, we only had a few, albeit important, PURPA-type  
17 cases, but they centered around specific avoided costs'  
18 issues.

19 The Michigan Commission, I understand, like,  
20 many commissions across the country, has never had a  
21 systematic routine updated Avoided Costs Schedule for rates,  
22 in terms of service. So I do my share of mea culpa, but I  
23 didn't do that when I was at the Commission either.

24 But it is a crucial time because certainly in  
25 Michigan and across the country, what you're seeing is

1 long-term contracts. In Michigan these contracts with the  
2 QFs have been in place for decades, some actually -- one in  
3 particular, a hydroelectric facility -- has PPAs dating back  
4 to the 1920s.

5           So long-term contracts, I want to start and end  
6 by saying, at least, from Michigan's small QFs, 20 megawatts  
7 and under, with whom we work, these are a diverse set of  
8 QFs, hydro biomass, landfill gas, almost all of these are  
9 very low-cost, compared to the utilities' rates, most  
10 significantly lower than the utilities, even commercial,  
11 industrial or residential rates.

12           So they are low-cost in Michigan. But let me  
13 just say that I just picked three particular questions that  
14 the Commission has asked to hit on, in my opening comments  
15 here. Most of the facilities again, with which I am  
16 referring, are 6 megawatts and under, yet they're very  
17 important, especially to the local communities in which they  
18 serve.

19           And again, my comments really center around  
20 existing facilities. These facilities have been on the  
21 utilities' systems for decades. I understand there's quite  
22 a bit of talk about a new explosion of PURPA, especially out  
23 West, but from my perspective, I'm really trying to focus on  
24 my discussion on existing facilities that have been there  
25 and operate within the local communities, with which they

1 serve.

2           So first let me make a couple of comments on the  
3 question about whether the Commission should continue or  
4 Congressional law should continue with the rebuttable  
5 presumption that the Commission has adapted, in terms of  
6 Section 210(m)'s requirement that QFs 20 megawatts and below  
7 do not have nondiscriminatory access to competitive  
8 organized full-sale markets. And that there continues to be  
9 barriers to access for these smaller facilities.

10           I can't stress enough -- I think there's some  
11 assumption, at least in my vantage point, that since MISO is  
12 an organized market, that that's just fine for energy and  
13 capacity needs for these QFs. And if I can leave you with  
14 no other thought today, it's that nothing could be further  
15 from the truth.

16           Because most of the states within MISO are fully  
17 regulated, MISO's markets have never been designed to be  
18 long-term markets in the sense that they ensure long-term  
19 resource adequacy needs. And consequently, obviously they  
20 would not fully compensate or fairly compensate QF  
21 generators for their resource investments.

22           As MISO has recently stated in a certain regard,  
23 "The current market will continue to provide only a  
24 balancing function and will fail to efficiently support  
25 resource investment decisions in those areas of MISO that

1 rely upon MISO's marketplace signals for those decisions."

2           Allowing utilities to require QFs in Michigan to  
3 utilize the MISO market, either directly or indirectly, by  
4 trying to set new avoided cost rates based on energy and  
5 capacity from the MISO market, is essentially getting  
6 through the back door, what those utilities cannot get  
7 through the front with your requirements that they obtain  
8 waivers to require market access.

9           I want to just jump ahead and give a couple  
10 thoughts on the "must purchase" legal requirement obligation  
11 and how, again, important it is to these facilities in  
12 Michigan. Without that mandatory purchase obligation of  
13 these existing reliable, renewable resources, quite simply  
14 there is no incentive for incumbent utilities to contract  
15 with these renewable resources.

16           And that's simply because they have an  
17 advantage, especially in Michigan, with rate-of-return  
18 regulation to build these facilities themselves. So whether  
19 you're talking about solar, wind, they make improvements to  
20 their own hydro facilities on rate-payer dollars. And yet,  
21 they seek to require the smaller QFs in Michigan to utilize  
22 this underpaid MISO market.

23           Let me just end with four examples --

24           Let me just say, local communities in Michigan,  
25 mayors that we've been speaking with and working with, I

1 know our focus is on customers, but also I just want to  
2 impress that these existing facilities provide tax base,  
3 water lake levels and other ancillary benefits to the local  
4 governments and local areas in which they operate. And I  
5 think it's just important to keep that in mind as we're  
6 looking at just avoided cost rates and mandatory purchase  
7 obligations. With that, I'll close, and thank you.

8 MS. SIMON: Allison.

9 MS. CLEMENTS: Thanks, Julie. Thanks, Chairman,  
10 Commissioners and staff for including us today. My name is  
11 Allison Clements and I represent the sustainable FERC  
12 Project, which is a coalition of national and regional  
13 nonprofit environmental organizations focused on removing  
14 federal regulatory barriers to our community's clean energy  
15 goals.

16 We advocate before this Commission and also in  
17 the regional transmission organization areas of the country  
18 and increasingly in regions that came together pursuant to  
19 FERC's Regional Transmission Planning Rule, Order 1000. We  
20 appreciate the opportunity to comment today.

21 Our member organizations are located across the  
22 country and so we have a perspective of FERC's PURPA  
23 implementation from both organized and unorganized regions  
24 connected to our policy perspective. It's a really great  
25 moment for the Commission to stop and assess how PURPA

1 implementation is going.

2           The grid is changing. We know that. Base-load,  
3 thermal, traditionally dispatchable power is no longer the  
4 only game in town. And when we think about modernizing  
5 PURPA, we want to make sure we continue down that path of  
6 that grid evolution that we're already on.

7           Renewable energy costs are decreasing.  
8 Customers are empowered and want to see renewable energy  
9 development. And excitingly, PURPA is starting to work on  
10 that specific front, although it's been working in a lot of  
11 important ways historically.

12           We have already heard the historical references  
13 to 1978 and Congress' passage of PURPA with two goals, both  
14 getting off of fossil fuels and getting on renewable energy,  
15 energy efficiency and cogeneration. And also importantly, a  
16 second distinct goal of increasing competition in the energy  
17 sector, and we know that PURPA has played a foundational  
18 role in the development of the independent power sector.  
19 PURPA has proven capable of Congress' intent, but it has not  
20 yet run its course.

21           In preparing for today, I thought it would be  
22 worth opening with a couple of points about renewable energy  
23 and public policies as they relate to PURPA. First, the  
24 fact that state RPS standards exist in twenty-nine states,  
25 and the fact that there are federal and other state policies

1 designed to drive towards various types of clean energy,  
2 does not negate the specific purpose of PURPA.

3           The interconnection right that comes along with  
4 PURPA's requirements, the mandatory purchase, FERC's  
5 mandatory purchase obligation and other pieces, make PURPA's  
6 intent distinct and even to the extent that these other  
7 policies are succeeding in practice does not mean that we  
8 should be relieving utilities of their obligations under  
9 PURPA.

10           Second, to the extent that these policies are  
11 succeeding in bringing down the prices of renewable energy  
12 resources again, it does not mean that we are done with  
13 PURPA. There is an idea about who's going to produce this  
14 renewable energy and whether or not it's going to get on to  
15 the grid that remains important.

16           Congress reviewed the statute in 2005. At that  
17 time, seventeen states already had renewable portfolio  
18 standards or renewable portfolio goals. So this was not  
19 something that wasn't known to Congress. The changes did  
20 incorporate the reality of changing wholesale energy  
21 markets, but the changes did not say, "Okay, we've got state  
22 renewable portfolios entered, we no longer need PURPA as it  
23 was."

24           Last year, in 2015, 4.7% of our country's  
25 electricity was generated by wind power and less than a



1 percent was generated by solar power. So we still have a  
2 long way to go. In some states, PURPA is the only way, by  
3 which renewable energy projects get built. And even in the  
4 states where that's not the case, it remains a critical  
5 component of allowing for smaller, independent renewable  
6 energy generators to compete.

7           We hope, as a coalition, that FERC will update  
8 its PURPA regulations to recognizing the continuing changes  
9 that are taking place on our electric system, but not to  
10 jump too far ahead. There are opportunities to issue  
11 guidance or regulations that will protect qualifying  
12 facility's opportunities to continue to provide clean energy  
13 to our system.

14           I hope to speak specifically to the 20 megawatt  
15 and below rebuttable presumption, as well as utility  
16 contracting practices vis- -vis potential qualifying  
17 facilities, and the potential of the energy imbalance  
18 market.

19           And my last comment related to the mandatory  
20 purchase obligation is when we talk about considering the  
21 need. The need for these types of resources. We need to  
22 start from where we are today in 2016 and not from where we  
23 were in 1978, and in that case, public policies are  
24 incorporated into utility planning, into regional  
25 transmission system planning, almost as a matter of course

1 now.

2                   And so thinking about the availability of QFs  
3 should be something that's incorporated into utility and  
4 regional planning processes from the start. And that  
5 ensures that this great avoided cost opportunity that is  
6 intended and continues to protect consumers, will continue  
7 to do so. Thanks.

8                   MS. SIMON: Thank you. Todd.

9                   MR. GLASS: Good morning. Chairman Bay.  
10 Commissioners. Commission staff. My name is Todd Glass.  
11 I'm a lawyer at Wilson Sonsini Goodrich & Rosati and I'm  
12 appearing on behalf of the Solar Energy Industries  
13 Association. I've been a lawyer for more than twenty-two  
14 years, not quite as long as Jerry, but someday I'll get  
15 there. Before that, I worked at Washington Utilities &  
16 Transportation Commission.

17                   I am very happy to participate in this Technical  
18 Conference today in defense of PURPA and its implementation.  
19 On the side, I teach energy project development finance at  
20 UC Berkeley School of Law. The number one class after the  
21 intro class is Power Purchase Agreements.

22                   Why? The Power Purchase Agreement is the single  
23 most important contract of the development and financing of  
24 an energy project that's not owned by a utility. Without  
25 the long-term commitment to buy the output of that agreement

1 at a fixed price, there is no predictable stream of revenue.  
2 Without a predictable stream of revenues, there is no  
3 financing. Without any financing, there is no project.

4 The next class that I teach and the first law  
5 that I teach is PURPA. Why do I teach PURPA? PURPA is the  
6 genesis of independent power in the United States. It was  
7 the first opportunity for entities to compete with  
8 vertically integrated monopolistic utilities. They didn't  
9 want to do it. Congress forced them to do it in 1978.

10 PURPA's key elements from the "must purchase"  
11 obligation to the avoided cost to the interconnection and  
12 wheeling to the regulatory exemptions were key to building  
13 an independent power community. And it became, as the  
14 Commissioner stated, the foundation upon which EPACT 1992  
15 was developed, Order 888, and a lot of things afterwards.

16 It was these fundamental elements that started  
17 in PURPA that has changed the United States' electric grid  
18 and entered this competition. Well, back in my day job, for  
19 the last ten years, I've developed and financed hundreds of  
20 solar projects, ranging from KWs all the way up to several  
21 hundred megawatts. I can say that developing and financing  
22 of these projects is getting harder.

23 Both utility scale in the 2- to 20-megawatt is  
24 getting harder. Why? PPAs are getting hard to locate and  
25 execute. Renewable portfolio standards, that have been

1 referred to, are largely filled up in those twenty-nine  
2 states that were referred to.

3           The clean power plant is stalled and the  
4 projects that are getting financed today, that I'm glad to  
5 see is happening, largely got started several years ago.  
6 And that the future does not look quite as rosy for  
7 long-term purchase agreements.

8           Why? Utilities are also getting more and more  
9 difficult to deal with, especially if you're a QF attempting  
10 to interconnect on the distribution grid. There is an  
11 unwillingness to honor legal enforceable obligations. There  
12 is RFP abuses. There are unfinanceable PPA terms that the  
13 market power, the utilities used from the terms, the  
14 curtailment terms, security requirements, various avoided  
15 costs games are being played, as well as very difficult and  
16 discriminatory interconnection processes.

17           I appear here on behalf of the Solar Energy  
18 Industry and SEIA, which represents a 1,000 member companies  
19 across the United States, and we champion the development of  
20 this solar, clean and affordable solar energy, after  
21 removing market barriers.

22           SEIA represents all members of the value chain  
23 and of the 29 gigawatts that have been installed in the  
24 United States, just 7.5 were installed last year. We're  
25 accelerating this type of growth, and we expect in 2016

1 alone to have an additional 14.5 gigawatts installed. Most  
2 importantly we employ now over 210,000 people in the United  
3 States who are actively involved in the solar industry.

4           So what does SEIA want? And why am I here today  
5 and what do I want to talk about? First, FERC, the  
6 Commission should make sure that PURPA is being implemented  
7 in a manner consistent with the legislation and the  
8 regulation. Most specifically, I believe that the  
9 Commission should establish clear guidance on what a minimum  
10 set of contractual commitments should be as part of the LEO  
11 and the Power Purchase Agreement.

12           We mean fixed prices, a long enough term, strict  
13 guidance on allowable curtailments, equitable security  
14 requirements, changes in law and other regulatory  
15 disallowances should not be allowed to vitiate the contract  
16 and other mechanisms to deal with interconnection and  
17 transmission issues.

18           The second one is, I think you should do no harm  
19 to the nondiscriminatory access to the market. And in  
20 particular, the mandatory purchase obligations.

21           Third, we should -- I suggest that the  
22 Commission consider establishing a limited and efficient  
23 form for QFs to bring matters to the Commission where the  
24 utilities' abuse of contracting practices are harming the  
25 development.

1           And finally, and most importantly, I think you  
2 should honor the goals, the statutory goals of PURPA, which  
3 I didn't hear today from the utility perspective here, but  
4 it is to encourage the development of cogeneration and small  
5 power production. And to eliminate the discrimination that  
6 those entities were feeling with respect to interconnecting  
7 prior to 1978. Those matters are still facing the  
8 distributed generation solar industry today. Thank you.

9           MS. SIMON: Thank you. Bob.

10           MR. KAHN: Greetings. My name is Robert Kahn.  
11 I represent the Northwest & Intermountain Power Producers  
12 Coalition. Thank you, Mr. Chairman, members of the  
13 Commission and staff. We very much appreciate this  
14 opportunity to speak to you. Let me just from the very top,  
15 agree with Todd Glass' very specific proposals to you. I  
16 can't endorse them heartily enough.

17           And I'm doing so as an advocate for competition,  
18 because fundamentally what our group, known as NIPPC, is all  
19 about, is promoting the competitive paradigm, I call it  
20 defending the paradigm, which FERC has done a superb job of  
21 promoting. Fact is, is that FERC in at least our world in  
22 NIPPC, is not a four-letter word.

23           We're here because PURPA is the keystone of our  
24 industry. PURPA is about competition. It enabled  
25 competition. And the reasons why the industrial-owned

1 utilities have opposed it as long and as vigorously as they  
2 have and are doing so today is because it enables  
3 competition.

4           There are several claims that have been made  
5 along the way that I'll like to address. But to reinforce  
6 again, Todd Glass' testimony just now, we have over eighty  
7 cases that have appeared, PURPA cases, that have appeared in  
8 Idaho, Oregon and Washington. We list them as an attachment  
9 to our written testimony, and there are many more that  
10 could've been litigated at the Commissions if the developers  
11 could've afforded to do so. So this idea of having an  
12 expedited treatment, or at least hearing at FERC, might be  
13 really a good idea for all concerned.

14           The truth is, is that the Commissions, at least  
15 in our experience, as we put it in our written testimony,  
16 have a genuine disinterest in PURPA, which is rather kind,  
17 frankly it's been a root canal for them. I think that  
18 Travis Kavulla's comments to the effect that the Montana  
19 Public Service Commission spending 25% of its time on PURPA  
20 is a problem in and of itself.

21           We shouldn't be having these fights, but we do.  
22 And that's because, as we mention in our testimony, there is  
23 outright hostility on the part of the IOUs to what we're  
24 trying to accomplish. Now let me be clear. NIPPC advocates  
25 for what we would call the "City on the Hill". We advocate

1 for organized markets in the West.

2 We have done so progressively and hopefully  
3 constructively for a really long time. We're not there yet.  
4 The claim that the energy imbalance market, which is, if you  
5 will, a precursor to an organized market, it somehow makes  
6 PURPA irrelevant, is just nonsense.

7 No IPP is directly connected to the IM as I  
8 appear today, and there is no prospect for interconnection  
9 or intertie bidding or any of the necessary steps that would  
10 get us into that market. So claims to that effect are to be  
11 kind of misrepresentation. And the claim that we have  
12 competitive procurement rules at the utility commission  
13 level is really just sad.

14 We have fought for those and we have  
15 participated in designing them. And NIPPC has litigated and  
16 represented our industry's interests within the context of  
17 competitive procurement rules, and then, for example, the  
18 State of Oregon, over the last ten years, under what was  
19 considered to be model competitive procurement rules, our  
20 industry has only developed 5% of the total capacity added  
21 to serve rate-payers in Oregon.

22 So we have a problem here. And PURPA continues  
23 to be the keystone or the last resort, if you will, to  
24 preserve the option of competition. Let me just end here.  
25 Our industry, over the years, has added value, because



1 frankly we spend our own money. And in spending your own  
2 money, you're much more careful about what you do for  
3 investments and what you do for innovation.

4 Utilities can do the job of distributing power,  
5 of maintaining reliability on the system, but they do not  
6 have as PURPA recognized, unique capacity to develop  
7 generation. On the contrary, we'll do a better job, we have  
8 done a better job, and we'll continue to do a better job as  
9 long as PURPA is enforced, as you have historically enforced  
10 going forward.

11 Final word please. The idea of cooperative  
12 federalism, which is an underlying element to your relation  
13 to the states, is a two-way street. It should not be some  
14 kind of pabulum that substitutes for your tradition of  
15 enforcement of PURPA as defined by Congress. Thank you for  
16 your time.

17 MS. SIMON: Thank you.

18 MR. KJELLANDER: Thank you. My name is Paul  
19 Kjellander. I'm with the Idaho Public Utilities Commission.  
20 Again, like everyone else has said, thank you very much for  
21 the opportunity to be here today. And I certainly applaud  
22 the Commissioners' efforts to sit through what promises to  
23 be another day of bun-numbing fun.

24 Where I'd like to start is with a snapshot of  
25 Idaho's renewable activity, as well as its PURPA activity.

1 Our largest electric utility, Idaho Power, has almost 1,300  
2 megawatts of renewable energy under contract, of which  
3 approximately 1,100 megawatts are PURPA contracts. Now this  
4 is significant when you consider that Idaho Power's minimum  
5 system load is 1,100 megawatts.

6           The cost to customers for that 1,100 megawatts  
7 of PURPA over the lives of those contracts represents 3.75  
8 billion dollars, so these are not small projects and there  
9 is a commitment on behalf of this Commission, the Idaho  
10 Public Utilities Commission and the utilities to get PURPA  
11 into the system. With that said, the Idaho Commission is  
12 not anti-PURPA and we're not anti-renewable.

13           The real issue that I want to bring to your  
14 attention today is with disaggregation, or gaming of the  
15 system of PURPA. The main problem that we see with this is  
16 that large-scale projects have essentially broken up into  
17 smaller projects for the sole purpose of gaming PURPA.

18           The most blatant example of the developer  
19 breaking up a large-scale project into multiple  
20 purpose-sized projects occurred in Rocky Mountain Powers'  
21 Idaho territory. In this instance, the developer initially  
22 bid a 150-megawatt project into the utilities' RFP process.  
23 When the developer failed to win the bid, the project was  
24 recast as five separate PURPA projects.

25           The output of this reconfigured utility scale

1 windfarm clearly exceeds the spirit of the 80-megawatt  
2 threshold at PURPA's higher end and it clearly breached the  
3 intent of Idaho's published rate limit of 10 average  
4 megawatts delivered. Rocky Mountain Power estimates that  
5 this disaggregated project will cost its customers 1.1  
6 billion dollars.

7           When we look specifically at disaggregation in  
8 Idaho Power's territory, we see 183 megawatts of power from  
9 four developers who are broken up into sixteen projects that  
10 are under contract today. Regarding the projects that  
11 didn't go forward, had they been built in Idaho Power's  
12 territory, customers would today be paying an additional 1.7  
13 billion dollars.

14           The other issue that I want to touch on is  
15 disaggregation in Oregon. Our disaggregation concerns  
16 stretch beyond our own borders of Idaho. A recent series of  
17 projects approved in Idaho Power's Oregon territory are  
18 raising some concerns. The Oregon Commission approved six  
19 PURPA projects that require Idaho Power to take 60 megawatts  
20 of power from six solar projects. The average load for  
21 Idaho Power's Oregon territory is only 98 megawatts, which  
22 makes it very hard to argue that that power is needed.

23           The disturbing similarities among these six  
24 projects include the same operation dates, the same project  
25 size, the same terms and payment conditions, the same

1 developer and the same solar panel manufacturers. This  
2 looks like a disaggregated project that stretches the spirit  
3 and intent of PURPA.

4           The problem these six projects represents for  
5 Idaho is that under the current allocation scheme, 95% of  
6 those costs for those projects will be recovered by the  
7 utility's Idaho-based customers. That's almost one billion  
8 dollars over the lives of those contracts.

9           Unless the issue of disaggregation is addressed,  
10 there's a pretty good chance that we could be facing an ugly  
11 border war with the State of Oregon. What I would hope for,  
12 as far as a path forward, is that the Commission could look  
13 specifically at the disaggregation issue and give the State  
14 some more immediate tools that it can deploy, so that when  
15 we recognize that disaggregation is occurring, we can  
16 address it in its time and place because as we've seen it  
17 today, we have 1,300 megawatts of PURPA in our system today,  
18 and it's not cheap.

19           And when we see disaggregation, when we see that  
20 the intent of PURPA is clearly being sidestepped, it would  
21 be nice to be able to address it before it has a significant  
22 financial impact on customers. With that again, thank you  
23 very much for the opportunity to be here and I look forward  
24 to participating.

25           MS. SIMON: Thank you. Irene.

1 MS. KOWALCZYK: Good morning, Commissioners and  
2 FERC staff. My name is Irene Kowalczyk. I'm the Director  
3 of Global Energy for WestRock Company, the leading  
4 manufacturer of packaging products. I'm representing the  
5 Industrial Energy Consumers of America, the association of  
6 leading manufacturing companies with over one trillion in  
7 sales.

8 IECA represents industrial energy consumers in  
9 every industrial segment of the economy. My comments today  
10 will focus on QFs that are CHP units or cogeneration units,  
11 the subset a very efficient and environmentally helpful  
12 source of power.

13 I wanted to note that the manufacturing sector  
14 builds CHP systems to provide economic steam and electricity  
15 to supply the manufacturing facility. We're really not in  
16 the power generation business. We're in there to produce  
17 products.

18 DHP systems are vastly different from other QFs  
19 because they must integrate the thermal and power production  
20 into an industrial process. We are concerned this  
21 Conference may result in FERC revisions to rules  
22 implementing PURPA that may effectively dismantle many of  
23 the necessary protections that PURPA provides to QFs without  
24 a change in law. And we would highlight that many of the  
25 concerns that have prompted this Conference are not

1 applicable to industrial CHP facilities. We'll highlight  
2 the differences between CHP QFs and other QFs.

3 PURPA is just as important today as it was in  
4 1978. Without the regulatory assurances of PURPA,  
5 significant energy conservation efficiency and greenhouse  
6 gas reductions achieved to date would not have occurred.  
7 With regard to some of the questions that were put forward  
8 to the panelists, as far as the "one-mile rule" is  
9 concerned, that was just discussed, and disaggregation, this  
10 is really not our issue. However, if there are PURPA  
11 abuses, then they probably should be addressed.

12 We support the continuation of the rebuttable  
13 presumption for facilities 20 megawatts and smaller. The  
14 volume of power that typically moves to the grid from these  
15 manufacturing CHP facilities is so small that it would be a  
16 significant administrative and cost burden to become a  
17 market participant in the organized markets.

18 The most logical off-taker is the local utility  
19 that can easily integrate this as available power into their  
20 mix. One point that we would like to encourage the FERC to  
21 change the basis upon which QFs that our CHP units end up in  
22 the over or under 20-megawatt category, so that it's based  
23 on the maximum amount of power that can reasonably be  
24 exported to the grid under normal operating conditions,  
25 rather than on its net generating capacity.

1           With regard to curtailment, QFs at our CHP  
2 should be the last in the queue of QFs to be curtailed, and  
3 only in emergency conditions where grid stability is  
4 threatened. This is because the CHP is tied to an  
5 industrial facility that has tremendous economic value to  
6 the communities in which they are installed.

7           Also, CHP facilities should be curtailed down to  
8 a net zero export condition so as to not drastically impact  
9 the efficient operation of the manufacturing process and  
10 this is if you have to have the curtailment, if everybody  
11 else is off the system and you are at the point where you're  
12 looking at the QFs but our CHP brings them down to net zero  
13 only so they can continue to run their plants efficiently.

14           On interconnection, CHP facilities should not be  
15 treated just like merchants and utility power plants in the  
16 interconnection process. The existing rules fail to reflect  
17 the unique operational characteristics of QFs that are  
18 integrated into an industrial process. IECA recommends  
19 development of streamlined interconnection process for CHPs  
20 and waste heat recovery QFs.

21           We support preserving the obligation to purchase  
22 "as available" power and to provide supplemental standby and  
23 maintenance power at reasonable rates. Discrimination in  
24 this area still exists today and you've heard from others  
25 that have said that.

1           On the imbalance energy market's issue, we  
2 believe this is not a viable substitute for fully functional  
3 Day 2 energy market. This is because they're largely  
4 illiquid and not transparent. A CHP QF selling "as  
5 available" power into really an imbalance market would not  
6 be able to do so easily without subjecting themselves to  
7 significant financial penalties and that's even if they can  
8 get interconnected.

9           And last point we would make is that energy  
10 imbalances caused by renewable QFs can be a problem because  
11 utilities, the RTOs and the ISOs, they have to fill the  
12 voids caused by that resources' intermittency and we've  
13 heard cases of the utilities needing to really dispatch  
14 their gas units to fill the voids caused by some of the  
15 renewable intermittent power that's on their system and that  
16 can cause them running their units less efficiently.  
17 However, CHP QFs are not really contributing to this  
18 problem. Thank you.

19           MS. SIMON: Thank you. And we move to  
20 Mr. Schmidt from that side to this side.

21           MR. SCHMIDT: Good morning. I'm Joel Schmidt,  
22 Vice-President of Regulatory Affairs at Alliant Energy. We  
23 are a mid-West transmission dependent energy company serving  
24 customers in Iowa and Wisconsin. I thank the Commission, as  
25 my fellow panelists, for the opportunity to participate



1 today on behalf of the Edison Electric Institute, EEI, to  
2 discuss the market issues and timely reform associated with  
3 PURPA.

4 Our commitment to deploying cost-effective  
5 renewable resources is strong as an industry. EEI members  
6 support the deployment of renewable resources and are  
7 leading the way in renewable investment, delivering  
8 virtually all of the wind energy and the majority of  
9 installed solar capacity.

10 From Alliant's perspective, since 2008, we have  
11 invested more than one billion in wind energy alone and have  
12 been delivering cost-effective wind resources through  
13 purchased and owned facilities for our customers for over  
14 two decades.

15 We are proud Iowa's the national leader in wind  
16 energy deployment, deriving 31% of the state's electricity  
17 from wind. Although our EEI members operate in  
18 significantly different market structures, we are all  
19 subject to PURPA's mandatory purchase requirements.

20 Two-thirds of the U.S. energy market is now  
21 served by wholesale regional electricity markets. As such,  
22 PURPA's QFs have ample opportunity to bid renewable energy  
23 into the wholesale markets through competitive processes.  
24 Despite this access to wholesale markets, many QFs choose to  
25 develop projects under PURPA's mandatory purchase

1 obligation, often at a premium, to other available renewable  
2 energy resources, such as utility-owned or competitively-bid  
3 PPAs, with that premium being borne by our customers.

4           To facilitate this discussion, in recognition of  
5 the changes in the markets and the generation fuel mix, my  
6 written statements propose timely changes to FERC's  
7 regulations to highlight the issues there being seen in the  
8 markets today, and to propose changes to the Commission's  
9 rules and regulations to address potential market abuses.

10           I would like to focus on the need for changes to  
11 FERC's "one-mile rule". Alliant Energy's Iowa service  
12 territory, a single wind developer has partnered with two  
13 large foreign-owned companies to violate the spirit and  
14 intent of PURPA, which was designed to truly help local  
15 renewable developers with no access to competitive markets.

16           Specifically, this developer for essentially one  
17 58-megawatt project has grouped two foreign-owned projects  
18 into separate corporate entities, each with a 2- to  
19 3-megawatt wind turbine located just beyond the one-mile  
20 FERC-designated limit from each other to qualify its  
21 individual projects under PURPA, as well as for Iowa State  
22 tax credits.

23           This cumulative project far exceeds the maximum  
24 QF size limit of 20 megawatts for organized markets. This  
25 behavior negatively manipulates Alliant Energy's customer

1 costs and reliability. It also highlights why changes are  
2 needed to FERC's "one-mile rule".

3 Now, moving to customer costs. Current  
4 market-based wind prices are approximately 25% lower than  
5 the PURPA obligation prices we are forced to pay for this  
6 wind power. As a result, from the project I discussed, this  
7 will cost Iowa's Alliant customers incrementally 17.54  
8 million over ten years.

9 The purpose of our proposed regulatory changes  
10 to the "one-mile rule" is to increase transparency, improve  
11 renewable resource integration and allow electric utilities  
12 to bring alleged instances of gaming and market abuses to  
13 the Commission's attention for consideration and resolution  
14 before allowing such resources to be granted QF status and  
15 burdening our customers for years.

16 Our revisions, if adopted by the Commission,  
17 will benefit all stakeholders in the marketplace by  
18 providing greater transparency and fair rates for all to  
19 achieve the objectives of cleaner, more reliable and more  
20 affordable energy today and into the future. In conclusion,  
21 thank you for the opportunity to participate and I look  
22 forward to the dialogue.

23 MS. SIMON: Thank you all for those opening  
24 statements. I'd like to turn to Chairman Bay if he has any  
25 questions for any of the panelists?

1                   CHAIRMAN BAY: Thank you. I appreciate the  
2 comments of all the panelists, and for the panelists who  
3 have been supportive of PURPA, what would be your response  
4 to the concern raised by several of the panelists regarding  
5 the gaming of the "one-mile rule"? I'd just be interested  
6 in hearing your response to that concern.

7                   MR. KAHN: Chairman Bay, this is Robert Kahn  
8 with NIPPC. My response is that this is a manageable issue.  
9 The Commissions themselves have addressed it. I'm not sure  
10 that it requires FERC action to manage. In my view, we can  
11 talk about it, but it's not the kind of thing that cannot be  
12 resolved. It's more a manageable issue than has been made  
13 out to be.

14                  CHAIRMAN BAY: And how have State Commissions  
15 addressed that particular issue?

16                  MR. KAHN: Best to ask our Commissioner to my  
17 right.

18                  CHAIRMAN BAY: Okay.

19                  COMMISSIONER LAFLEUR: Go ahead.

20                  MR. KJELLANDER: I think that I have to disagree  
21 with the fact that the "one-mile rule" is manageable. I  
22 think even when you try to extend it to five miles, which  
23 our neighboring State of Oregon has done, we still see  
24 manipulation of the system, and with solar technology, it's  
25 even easier to separate those projects because in, at least

1 my part of the country, we have over 300 days of sunshine.  
2 And we have a lot of high-plains desert, a lot of area in  
3 which you can locate those projects and separate them by  
4 whatever mileage separation you would want to deploy.

5           As far as a direct answer to your question, I  
6 think in utilizing PURPA, every instrument that we have  
7 within the Act that was written in '78, is a very blunt  
8 tool, and when we look at the tools we have, we have project  
9 size, we have the ability to set the avoided cost, which, if  
10 it is a long-term contract with a forecasted price  
11 component, we'll always be wrong, and we've seen it to  
12 always be wrong in favor of the developer and against the  
13 consumer.

14           Then the last one is that essentially the  
15 contract length. And so when we have those as the three  
16 blunt tools, it's very problematic. And that's why, with  
17 the issue of disaggregation, it'd be very helpful to get  
18 some additional guidance from the federal level, to give us  
19 the tools to act a little bit more immediately when we see  
20 some of the issues that clearly spell out that this is a  
21 disaggregated project and in my written comments, I've laid  
22 out quite a few bullet points that I think, at least, help  
23 encapsulize some of my thoughts in that arena. And thank  
24 you for the question.

25           MR. KAHN: Yeah, I think that -- to be more

1 specific, look. You've got ownership that you can  
2 distinguish. You've got your interconnections that you can  
3 distinguish. To say that this is easily gained is to  
4 underestimate the capacity of utility commissions to cope  
5 with the problem that they can cope with on their own turf.

6           To elevate it up to make it a FERC problem, I  
7 think, is generally an overstatement. You know, this is a  
8 matter of obvious interest over time, but frankly, to put it  
9 into context, it's what entrepreneurs will do as they're  
10 trying to add to the system and to make a buck. So this is  
11 manageable, and I think it's a bit of a red herring,  
12 frankly.

13           CHAIRMAN BAY: Clearly, there is a tension here,  
14 because the point of PURPA was to encourage the development  
15 of these other resources, and so for those of you who think  
16 that this rule should be re-examined, the "one-mile rule",  
17 what would you propose as an alternative that balances the  
18 objectives of PURPA with your concern that the rule is in  
19 some way being gamed?

20           MR. SCHMIDT: Thank you. I'll refer briefly to  
21 my written comments, and there's some other written comments  
22 out there, but I think to summarize them would be really  
23 reconsider and provide that clarity and guidance, either  
24 through the FERC processes or to the State Commissions of  
25 really, what is one site? What should be considered?

1           I think we all know, as was referred to between  
2 the technologies and between our jurisdictions, one mile's  
3 very subjective. One mile in northwest Iowa, in my  
4 distribution system, is much different than one mile in my  
5 most populated city. Or on the outskirts of that load  
6 center.

7           I'm sure it's much different in our neighbors to  
8 the west, so I think it's really -- move forward and say,  
9 what are the factors that should be considered and how can  
10 we timely get to decisions so all the players in the  
11 marketplace can move on and move towards that cleaner energy  
12 that's needed, and have it integrated into the system.

13           CHAIRMAN BAY: Anyone else?

14           MR. GLASS: Quickly. I would agree with getting  
15 clarity, because developers don't want to develop projects  
16 where they can't develop projects. They want to develop  
17 them where they can and where they can avail themselves of  
18 the rights in the PURPA.

19           I would say to the Commissioner, however, the  
20 fact that you find that avoided cost rates tend not to be  
21 the lowest possible rates over time, that's part of the  
22 architecture of PURPA itself, and I believe that we were  
23 instructed not to start trying to revise the statute today.

24           CHAIRMAN BAY: Anyone else?

25           MS. CLEMENTS: Yes, Chairman, and just lastly, I

1 actually agree with all of these comments, but just would  
2 say as with most things that FERC does, obviously guidance  
3 is helpful to states and participants. So overall, looking  
4 at that and giving proper guidance, especially for new  
5 facilities, would be helpful, but just keep in mind as with  
6 things that you do, fact-base is also very important.

7           So again, we represent a certain facility I'm  
8 thinking of that's been on the utility system for decades,  
9 and it's separated by a small river. It's been there for  
10 forever. So that's an existing facility, so first just do  
11 no harm to those facilities that are otherwise not  
12 questionably gaming anything and are just existing within  
13 that one-mile vantage point.

14           CHAIRMAN BAY: Joel, it sounded like the  
15 approach that you were raising would be more open-ended  
16 looking at a number of different factors, but wouldn't a  
17 concern with such an approach be that it would lead to a  
18 fair amount of uncertainty for developers?

19           If you had some sort of open-ended approach  
20 where every single PURPA application had to be reviewed  
21 under this multi-factor approach, wouldn't that really cause  
22 a lot of uncertainty? And so, isn't that one of the  
23 benefits of having a test that turns on some sort of bounded  
24 geographic distance?

25           MR. SCHMIDT: I agree that uncertainty is not



1 good for anybody involved, and I think other panelists have  
2 noted that. I think you've actually identified the issue.  
3 We probably don't want to be at one or the other of the  
4 polar extremes, and I think we need to really think about  
5 that, keep it to relatively limited and -- it's almost, put  
6 some common sense to what is a site, and have that out  
7 there.

8           And as much as I -- we would encourage as much  
9 as can be kind of local circumstances, be that geography, be  
10 that grid systems, be that the technology, be that the  
11 financings in that area. Be if it's local or others, but  
12 that can be incorporated, so that is going to be the fine  
13 balance, because if you get too prescriptive on it, it will  
14 provide more uncertainty.

15           But I think right now, there is significant  
16 uncertainty as this stuff comes through. And frankly, a lot  
17 of angst that probably can be avoided with a bit of  
18 guidance.

19           CHAIRMAN BAY: All right. Thank you. Cheryl?

20           COMMISSIONER LAFLEUR: Thank you all for those  
21 comments. It really was striking to me how far PURPA has  
22 come, listening to this. And also I heard echoes of our  
23 conversations yesterday about the mismatch between where  
24 good opportunities for renewables are, sometimes in  
25 population centers and transmission and all of those good

1 things.

2                   When PURPA started, of course, the concept was  
3 these huge, behemoth, vertically integrated utilities and  
4 these little QFs that needed support. The thought that  
5 anyone would ever be drowning in PURPA power was the  
6 farthest thing from anyone's mind. So for those of you who  
7 have spoken and quite compelling about the need to continue  
8 PURPA as it has been, I'm interested in theoretically  
9 whether there's ever such a thing as too much.

10                   If we hypothesize an unnamed state with huge  
11 renewable opportunities and very low population, do they  
12 have to take up to their total load? Above their total  
13 load? I mean, is there any theoretical maximum to the PURPA  
14 obligation in your mind?

15                   MS. CLEMENTS: Commissioner, that's a great  
16 question and I think some of the changes made in 2005 get to  
17 that question. There's a couple of important points there.  
18 One is that if there are true organized wholesale markets  
19 with opportunities for long-term purchases that make  
20 projects financeable, you can get the waiver from your  
21 obligation.

22                   In the 20-megawatt and less rebuttable  
23 presumption, in organized markets, it's just that it's  
24 rebuttable and you have on one occasion, at least,  
25 determined that the presumption of nondiscriminatory access

1 was incorrect. And so I think -- otherwise, we're not  
2 seeing this perfect storm of factors that are leading to  
3 that drowning in PURPA power, because we have long queues.

4 But the reform pieces, in terms of utility  
5 practices, the utilities are pushing back because we're  
6 starting to make progress. And so the question now is how  
7 do you rearrange those pieces to make it more fair for  
8 everybody?

9 COMMISSIONER LAFLEUR: I was thinking more about  
10 the bilateral markets. I know you call them unorganized,  
11 but we usually say bilateral.

12 MS. CLEMENTS: Sorry.

13 (Laughter.)

14 COMMISSIONER LAFLEUR: Thank you.  
15 Bob?

16 MR. KAHN: Yeah, so this is Robert Kahn with  
17 NIPPC again. Yeah, they're pretty unorganized. They really  
18 are. First of all, just for point of fact. The idea  
19 theoretically we could speak to, but in terms of this being  
20 imminent reality, I have to say there's been some fast and  
21 loose number crunching here.

22 Just to point a fact. The nameplate QF capacity  
23 factors don't match up with the average electric use, and in  
24 one of the testimonies made today, at least the written  
25 testimony, there is a mismatch on capacity and megawatt

1 hours. It's not okay.

2           Also, we have to be clear that when we're  
3 dealing with a multi-state utility like PacifiCorp, where  
4 are we assigning the PURPA use of that power? It's maybe  
5 calculated as available PURPA QF capacity across its system,  
6 but if it's shrunk into just one state, it is going to look  
7 like a flood, but it really isn't.

8           In terms of the theoretical concept, from our  
9 point of view, if it's cheaper for rate-payers, which it  
10 historically has proven to be in Idaho, notwithstanding the  
11 comments by President Kjellander. We can document that if  
12 you like. It's cheaper since 1978 up to the present,  
13 compared to the operation of Idaho Power's system.

14           So, in other words, if it's in the advantage of  
15 rate-payers that PURPA projects be operating, I'm not sure  
16 what the problem is. I mean, clearly, historically, we've  
17 looked at it as a function of marginal costs, but on more  
18 than a few occasions, utilities will advocate for defining  
19 avoided costs as the operating costs of the system.

20           So they can have it both ways. Truth of the  
21 matter is, is that if we can beat them, we should be beating  
22 them, because it's in the rate-payer's interest.

23           COMMISSIONER LAFLEUR: You got everyone's  
24 attention starting with Paul, or President Kjellander.

25           MR. KJELLANDER: Paul works well. We can

1 quibble over numbers and I guess that's what we do in the  
2 context of cases in front of the Idaho Public Utilities  
3 Commission and I guess we'll continue to quibble over  
4 numbers and that's what the process is about, and I  
5 appreciate that robust nature of the conversation today.

6           But with regards to the pricing piece, I know  
7 there's a panel this afternoon on avoided costs and I know  
8 that Commissioner Kristine Raper is more than prepared to  
9 addressing with those issues, so as you move on through the  
10 day, I think she can touch on quite a few of those things  
11 with the impact of the avoided cost scenario, that she's  
12 seen both as an attorney, and now as a Commissioner. So  
13 with that, then again thank you.

14           MR. GLASS: Thank you. A few additional ideas.  
15 First one is to the point -- the rebuttal presumption  
16 provided in EPACT 2005 and beyond does provide a relief  
17 valve. I don't believe that any utility has gone in and  
18 successfully said that the 2- to 20-megawatt QF projects  
19 have access to the market. Nobody's ever done it. They  
20 haven't proved it. So we shouldn't have a rule-making that  
21 --

22           COMMISSIONER LAFLEUR: But that wasn't what I  
23 was talking about. I was talking about in the bilateral  
24 markets.

25           MR. GLASS: Definitely not in the bilateral

1 markets. The second one is that I do believe, as President  
2 Kjellander suggests, the answer is potentially in the  
3 avoided costs, and I also think that in your light-loading  
4 curtailment provision, which is 18 CFR 292.304(f), if you  
5 start sending the signal that the utility is going to  
6 curtail, because the systems are not able to take on, all of  
7 these things the developers will respond to, they will not  
8 be trying to develop projects where they're facing  
9 curtailment under the regulations where they're not getting  
10 the avoided costs that make sense, and whether where they  
11 can't avail themselves due to the rebutted presumption.

12 COMMISSIONER LAFLEUR: Thank you. Jerry?

13 MR. BLOOM: I think your question is great, but  
14 I'd like to change your question where it says rather than  
15 how much, I think the real question is, is how is it  
16 managed? And Todd just started hitting on this. I think  
17 that's the real issue. And if we look at -- first, I just  
18 want to go back to my opening statement and say, again,  
19 you're not hearing anything that CHP is the problem here.  
20 And we really need to keep that in mind as we go through  
21 this in terms of how much CHP has put on the system and  
22 those needs as critical.

23 The second thing is, when I go to the idea of  
24 how it's managed, there are plenty of tools and mechanisms  
25 and frankly, the rules and the regulations that are in place

1 to manage that, in terms of one, as Todd just hit, the  
2 curtailments. As we proceed through the terms and  
3 conditions, I'd go into the modernization of these contracts  
4 with the utilities. Utilities are asking for curtailments.

5           And one of the things, for example, we've worked  
6 away from, which is inherent in the FERC's rules and, in  
7 terms of capacity and energy payments -- if, for example,  
8 renewables were getting a capacity payment, they could offer  
9 a large amount of curtailment would be possible, because  
10 their whole revenue stream isn't energy only.

11           There's all kinds of tools, so it's, in terms of  
12 the implementation of the terms and conditions within the  
13 contract that can use the control and to send the market  
14 signals. And I think that that's, in terms of the  
15 solicitations and what's being looked for, it may change the  
16 nature of avoided costs and how you define that.

17           But there's a lot of talk about overpayments,  
18 but I just want to say it's so -- if avoided costs is being  
19 done properly and correctly, there aren't going to be  
20 overpayments and I agree with comments that have been made.  
21 If you historically look at the claims that are made, versus  
22 what the payments have actually been, in terms of real  
23 capacity in additions what's avoided over and over again,  
24 those claims don't hold up in terms of --

25           I think that we have all the tools in place to

1 manage this, and then we don't have to decide who's in and  
2 who's out, but how do we manage as these resources come onto  
3 the system?

4 COMMISSIONER LAFLEUR: Joel?

5 MR. SCHMIDT: Okay, though I probably could talk  
6 about access curtailment and avoided costs and would be more  
7 than happy to -- I do want to go back to the question about  
8 what is too much. I think there's really two components I'd  
9 like to point out in that. There's really two parts of  
10 that.

11 One is where -- and it's not all of a sudden  
12 you're redlining. I guess, back to our 1970s, I wasn't born  
13 in the '70s, but I was a child in the '70s, and some of the  
14 first driving I did is with tachometers and you talk about  
15 redlining. Well actually now, with having gone through  
16 teenage drivers, I now worry about when you get to the top  
17 of the green line, start moving to the yellow and to the  
18 red.

19 And I think that's really what we have to look  
20 at. And we also have, for us that have the obligation to  
21 serve these customers, it gets down to a circuit level. And  
22 I think there's a lot of discussion and I think guidance and  
23 help from FERC, as well as the state commissioners on siting  
24 helps everybody, because when you really think about the two  
25 types of generation that have been primarily talked about,



1 solar and wind, they have not had to go through the historic  
2 of where siting was really a major impetus into it, and I  
3 think we're hitting that maturity stage. So I think it  
4 really fits into that.

5                   So it's back to -- I had a mentor of mine very  
6 early in my career, when we were talking about materiality  
7 -- I'm an accountant by nature -- everything is material to  
8 somebody at some point. Everybody's paycheck, everybody's  
9 purchase, that's material to some level and I think we have  
10 to make sure that we start sending signals and guidance to  
11 talk about where the rubber hits the road, which is at that  
12 retail customer. Thank you.

13                   COMMISSIONER LAFLEUR: Okay. Kendal?

14                   MS. BOWMAN: Yes, I would like to echo what Joel  
15 said. I think that too much of one thing can cause  
16 problems, as one of our system operators explained to me.  
17 It's like a piece of chocolate cake. A slice of chocolate  
18 cake is great, but then if you have to eat the entire  
19 chocolate cake, it becomes a problem.

20                   We need to be planning and integrating these  
21 resources in a very balanced diversified fashion. We don't  
22 want to have all of one type of resource, particularly one  
23 that's intermittent. That can definitely cause operational  
24 and reliability impacts to your system. It needs to be done  
25 in a planned way, not an unfettered push, where you have an

1 endless amount coming online.

2                   COMMISSIONER LAFLEUR: My second and last  
3 question. For those of you who have spoken about the need  
4 to reform or moderate PURPA, which I guess is Paul, Joel,  
5 Kendal, do you see a distinction between combined heat and  
6 power and the intermittent renewables that some of the other  
7 speakers have spoken about?

8                   MR. SCHMIDT: Yes, and I will admit in our  
9 comments, we did not put a lot of attention to that, but  
10 having operated systems, as Kendal mentioned, different  
11 resources in different places act differently. They provide  
12 different benefits, they put different strains on the  
13 system.

14                   So I think throughout this, and I would venture  
15 to guess, the resources we're talking about now, though,  
16 we'll probably still be talking about them in the future,  
17 will also be different. Technology, operating practices,  
18 customer preferences, life in general will change that.

19                   MS. BOWMAN: I would agree. I didn't spend a  
20 whole lot of time on CHP and I will say to Michigan, small  
21 hydro, I think is unique. I think PURPA does allow for  
22 distinctions between technologies. So I think there is some  
23 latitude there to do that.

24                   MR. KJELLANDER: I think Joel hit it on the head  
25 instead of the other presenter. With regards to those

1 intermittent resources, when that nameplate capacity hits  
2 the system all at once, system operators are scrambling and  
3 it's extremely problematic. And so the resources aren't  
4 identical and I think taking a separate look at them, to  
5 what they are, is fair.

6 MR. GLASS: One quick follow up. Two things.  
7 First one is while I do see from a power flow engineering  
8 perspective that CHP is different from solar and wind and  
9 the like, I would, one, remind us that PURPA and its  
10 regulations, you know, call for nondiscrimination. And  
11 discrimination is something that we should be avoiding  
12 rather than introducing.

13 The second thing is, is also think about the  
14 unintended consequences. Right now there's a variety of  
15 technologies and that's one of the exciting things about  
16 what's happening in the world today.

17 Right now we're talking about introducing  
18 storage with solar. And if you, all of a sudden, start to  
19 compartmentalize and say, well, these people will get one  
20 treatment and solar over here will get -- and wind will get  
21 another.

22 What you do is send signals to the market that  
23 will forestall things like solar plus storage. So you need  
24 to have a consistent system along the way, so that people  
25 will develop towards the value, and I would go back to what

1 Jerry was suggesting is that, if we get more sophisticated  
2 about the market and the way that the values are  
3 communicated and paid for in the PPA, you will get to a  
4 better system, or a better QF.

5           If you put a price on capacity, guess what? The  
6 developers are going to figure out how to maximum that  
7 value. So I would just hesitate to discriminate too much.

8           MS. CLEMENTS: Just to build on Todd's point. I  
9 think when we think about the operations from a liability  
10 perspective of these issues, we are now in a different  
11 place. And there are a whole host of activities that  
12 utilities can engage in to help manage that integration,  
13 many of which are not FERC jurisdictional activities, but  
14 related to resource planning, sending signals to potential  
15 market participants about where it might be a good idea or  
16 desirable place to interconnect, etcetera, etcetera.

17           These resources can provide essential  
18 reliability services, so we're kind of sticking in this old  
19 intermittent paradigm is a little outdated and I think that  
20 we should start from that place.

21           MR. BLOOM: In case I haven't gotten it through  
22 yet -- from your question, Commissioner, you know, yes, CHP  
23 is different and I want to go to Todd's last point.

24           I think again, within the context of the rules  
25 and the regulations and the utility and the Commission's

1 ability to create terms, conditions in these contracts,  
2 those differences can be accommodated. We're not looking at  
3 -- there has to be wholesale changes.

4           For example, in terms of a CHP unit that's  
5 providing grid stability and reliability and providing as  
6 distributive generation resource, the function is different.  
7 The value is different. And there's nothing that prevents,  
8 within the context of that contracting process, for the  
9 utilities or the commissions to recognize those distinctions  
10 and provide value differently.

11           So that -- and I just want to go to a point  
12 that's been made. I don't want to leave the impression in  
13 the room today that these are all just "as available" in  
14 terms of CHP. Many of our members, because there are  
15 schools or hospitals there, industrial operations that are  
16 24/7 need to be base-load.

17           So if you have a distributed generation  
18 resource, right within the community that's providing RA and  
19 grid stability and reliability, and there's going to be  
20 base-load. And the more renewables we brought in, the call  
21 for the need for base-load, we want to have that dual  
22 efficiency, we want to use that gas efficiently.

23           Different terms and conditions can be and should  
24 be incorporated in terms of the contracting process. So  
25 it's not a matter of whether you discriminate, but how you

1 use those resources and tailor the contracts to the need and  
2 tailor the contracts to -- and that includes the  
3 statutability curtailments and all those various things.  
4 It's all there already. It just has to be implemented in a  
5 more sophisticated way.

6 COMMISSIONER LAFLEUR: Markets have been  
7 evolving to define different capabilities. We're talking  
8 about a different tool when we're doing it in these  
9 contracts. Last word. Charles?

10 MR. BAYLESS: My comments, like most others,  
11 didn't really focus on CHP. I was mainly looking at the  
12 sort of deluge of intermittent resources that have hit North  
13 Carolina. And I -- one reason I didn't look at CHP is  
14 because I think it's far different. It's not an  
15 intermittent resource. It doesn't need -- it doesn't impose  
16 the same effects on the grid. The backup generation is not  
17 the same. Things like that. Intermittent resources not  
18 only need back up they can ramp up quickly. It also needs  
19 resources that can ramp down quickly. When it changes.

20 I'm not really sure that there is  
21 discrimination. I think that you have to look at the two  
22 resources as differently. They have impacts in the system  
23 that are different and you have to, because there's  
24 different impacts, you have to evaluate them differently and  
25 evaluating impacts from intermittent resources, you're just

1 taking into account those costs. I don't think it's really  
2 discrimination to look at those.

3 COMMISSIONER LAFLEUR: Thank you.

4 COMMISSIONER CLARK: Just first on this issue of  
5 CHP. I think if the sole issue was that we're dealing with  
6 the CHP, we probably wouldn't be having a Tech Conference  
7 today. Right? I'd be back in my office reading through a  
8 stack of notational orders that I've been delaying over the  
9 last few days as I've been in this room. And y'all wouldn't  
10 be seated in these seats. That's probably not the core of  
11 the issue, so I would agree with those folks who've talked  
12 about that.

13 Let me talk just briefly about how I tend to  
14 analyze some of the other issues that we've been talking  
15 about. Which is -- while I would be the first to admit that  
16 not every incumbent utility's motives are pure, in terms of  
17 what they may be proposing, in terms of PURPA, there's  
18 undoubtedly some special interest there.

19 I think we should also acknowledge also that not  
20 every single PURPA developer's motives are as pure as the  
21 wind-driven snow either. I mean there are -- when you have  
22 an entitlement, there are incentives to gain that  
23 entitlement. And we need to make sure that consumers are  
24 protected in that. Which is why I take particularly  
25 seriously the concerns that we're hearing repeatedly from

1 state commissions throughout certain regions of the country.

2           Which is they are the party that's there to  
3 protect the public interest and is not necessarily there to  
4 protect either of these other interests that might have some  
5 sort of vested special interest in the particular status quo  
6 or change in the status quo.

7           So when we hear from State Commissions that are  
8 saying, "Look, here are the real costs and here is how  
9 projects are being developed because of a rule that the  
10 Commission has," I think we have to take that particularly  
11 seriously. And I've seen -- and this is a little bit  
12 different than PURPA, but I've seen exactly these sorts of  
13 games that get played.

14           We had, in my home region of the country, siting  
15 laws that were different between North Dakota and South  
16 Dakota. So I think, if I remember right, in North Dakota,  
17 you would only have to go through all of the regulatory  
18 siting if the facility, a wind farm in this case, was about  
19 50 megawatts. South Dakota it was a 100-megawatt threshold.  
20 So what did we have?

21           We had lots of projects cropping up right on the  
22 border, where 49.5 megawatts were in North Dakota, 99.5  
23 megawatts were in South Dakota, and you had effectively,  
24 150-megawatt wind farm that was never sited just to gain  
25 each state's regulatory regime.



1                   And though it wasn't impossible to overcome  
2 that, you just -- each state kind of figured it out and  
3 looked at the rules and regulations that you had and you  
4 streamlined those procedures so you didn't have the gaming  
5 of the system.

6                   I think most of my questions have been asked and  
7 answered, but I'd like to ask one in a little bit different  
8 way. For those who've spoken generally in a supportive  
9 manner with regard to PURPA, does anyone want to take a  
10 crack at defending, specifically the "one-mile rule" or the  
11 practice of disaggregation?

12                   (no response.)

13                   Okay. So, that's good. I'm glad we've got some  
14 agreement on that. I think we've got agreement on CHP and  
15 we may have agreement on that particular issue.

16                   What I would urge, and if anyone's had the  
17 chance to think about this a little bit more in the  
18 intervening time, since I think, I can't remember if Norman  
19 or Cheryl asked it, but if you have any more thoughts on  
20 specifically, if you were writing the rule for the  
21 Commission, how to address that particular issue, how would  
22 you write it? To give us some guidance.

23                   And if you don't have anything right now, please  
24 think about it and follow up with some comments. Because I  
25 really do think it's an issue. I mean, when we hear about

1 costs totaling potentially in the billion dollars or more  
2 over relatively sparsely populated states, it's a big enough  
3 deal, I think, to get our attention. President Kjellander?

4 MR. KJELLANDER: Thank you, Commissioner. On  
5 Page 6 of my filed comments, there are a series of bullet  
6 points that I think touch on a lot of what you're trying to  
7 get to, in terms of what needs to be addressed, and how they  
8 might be addressed, in terms of the disaggregation issue. I  
9 won't go through those. There's probably about a dozen or  
10 more. And I think those are probably a fairly decent  
11 starting point as you start to look at that issue and again,  
12 thank you.

13 MR. GLASS: Since he brought up his bullet  
14 points on 6 and 7 of his pages, I would say this. That when  
15 looking at the "one-mile rule" you don't want to eliminate  
16 the value of economies of scale. While, of course, we don't  
17 want abuse and nobody in the solar industry is here before  
18 you today saying that we want to, you know, play games or  
19 abuse the rules, the "one-mile rule" or whatever it will be.

20 On the other hand, we do want to develop enough  
21 projects and more projects so that the costs come down. So  
22 I would not want to forestall successful developers for  
23 doing more than one project in the state. Or gaining the  
24 economies of scale of having economy PC developer, you know,  
25 contractor, or doing some of the other things, because this

1 is actually what you want to bring down the costs of solar  
2 and other things of that nature.

3           So just be mindful that we don't want it exactly  
4 one project per state and that's the maximum, which I know  
5 that's not what you're suggesting. It's just that we do  
6 want to encourage the efficient development of strong  
7 players that can actually follow through on their  
8 commitments and deliver this renewable power to the grid.

9           COMMISSIONER CLARK: Thanks. Laura?

10           MS. CHAPPELLE: Yeah, just real quickly. I  
11 guess I do want to defend the "one-mile rule", but within  
12 the context of existing facilities, especially -- and again,  
13 whatever prospects -- it does concern me, I guess, as a  
14 former Commissioner, I don't like hearing about gaming of  
15 the system and breaking down projects to such small, you  
16 know, megawatts because it's one of these -- if, to the  
17 extent that that's true -- it reflects badly on these  
18 smaller QFs that again, have operated very efficiently,  
19 low-cost, and otherwise within the system. So to that  
20 extent, I don't like hearing those examples, but hopefully  
21 whatever you do does lend some clarity and doesn't affect  
22 existing resources who have very real reasons for being a  
23 mile or less apart.

24           And then I just wanted to throw out, just my  
25 strong feeling of the importance of FERC, especially for

1 Michigan, which again is a state that after thirty-four  
2 years, is taking a hard look at PURPA. So it is a crucial  
3 time and, in my estimation, I'm hopeful that the utilities  
4 and the small QFs can reach some type of an agreement on  
5 what avoided costs look like going forward, in terms of  
6 service.

7           But to the extent, again, that we cannot -- the  
8 most valuable thing I can say today is FERC has a backstop,  
9 if you will, for a reason. And I've long heard that FERC  
10 doesn't like, you know, one-off complaints, but please keep  
11 an open mind. If there is some state decision that impacts  
12 a large majority of the small qualified facilities, we  
13 expect to be able to have that forum at FERC so you can take  
14 an impartial look at avoided costs in PURPA terms, rates and  
15 service.

16           COMMISSIONER CLARK: Thanks.

17           MS. SIMON: Any other follow up questions? Yes.

18           CHAIRMAN BAY: It's been a very helpful  
19 discussion on the "one-mile rule". So let me ask this  
20 question. For the panelists who've spoken in favor of  
21 PURPA, leaving aside the CHP issue and leaving aside the  
22 avoided costs rate issue, which will be discussed this  
23 afternoon, what would be the top ask of panelists who have  
24 been supportive of PURPA and the implementation of PURPA?

25           MS. CLEMENTS: I appreciate the question,

1 Chairman. I think the place where rules don't exist that  
2 should, or hopefully will, exist is on the practice of  
3 utilities as relates to its specific contracting terms and  
4 posturing and interactions with potential qualifying  
5 facilities.

6 Those potentially, because PURPA is kind of  
7 coming of age and starting to bear fruit, we're now seeing  
8 utilities who were kind of okay with it for several decades,  
9 because there wasn't a lot happening, starting to make it a  
10 lot harder to interact with, and so you look at things like,  
11 in the Western states the contract length, the standard  
12 offer going down from twenty years to two years in Idaho, to  
13 challenges in Oregon, to fifteen years from twenty years in  
14 Utah, and a potential trend there that is troubling from,  
15 you know, a contract length that is not long enough to get  
16 financing before you're done. You can't implement PURPA's  
17 intent there.

18 Things like the sizes of projects for which  
19 standard offer contracts are offered. In North Carolina,  
20 there's a legislative bill consider decreasing that size  
21 between that potential and other states as well.

22 Fair interconnection processes, consistent  
23 interconnection processes, including for small, the very  
24 small qualifying facilities, going to the next panel, you  
25 know, the frequency of review of avoided costs from a

1 certainty and consistency perspective.

2 All of these things are kind of a bucket of  
3 issues that are starting to crop up and we're seeing trends.  
4 And I think, if you're going to go and try and fix reforms  
5 on the other side, we are concerned that some of the  
6 developers might be gaming. There's this series of rules  
7 that FERC has within its authority to be able to at least  
8 offer some sort of minimum standards that would apply. Then  
9 states could adapt and adjust, based on their specific  
10 circumstances.

11 CHAIRMAN BAY: Okay, thank you, Allison. Todd?

12 MR. GLASS: Thank you for the question. I would  
13 completely agree with Allison, her comment. We need a  
14 minimum set of parameters for these types of contracts. We  
15 need a fixed price. If it's not fixed, it won't be -- we  
16 can't develop and finance it.

17 We need a financeable term. Two years is not a  
18 financeable term. It is not. It won't happen. It can't be  
19 financed if all you've got is a fixed price for two years.  
20 There is no generation that's being financed on a merchant  
21 basis. You know, QFs don't get financed that way.

22 You know, limited nondiscriminatory curtailment  
23 provisions, equitable security requirements, elimination of  
24 change of law risk or regulatory out provisions, there are  
25 regulatory out provisions that, for instance, say that if

1 any time during the pendency of a ten or fifteen, twenty  
2 year PPA, if there is a disallowance by the State  
3 Commission, therefore, we're going to go in and change your  
4 PPA price.

5           That type of thing just kills the ability of  
6 project finance. And then finally, I would go back to  
7 nondiscriminatory straightforward interconnection practices.  
8 That's absolutely key and I think the Commission has done a  
9 fantastic job since Order 888 in rationalizing how people  
10 interconnect with the transmission grid and making it  
11 predictable and making it in a manner that can lead people  
12 to make rational economic decisions about whether to develop  
13 a project or not.

14           But it's a difficult dance around that where a  
15 QF trying to locate on a distributed, you know, distribution  
16 level thing, that's very difficult, and with all due  
17 respect, I think a lot of utilities in the country would  
18 simply prefer not to interconnect QFs on the distribution  
19 grid. They would just prefer not to. They would prefer to  
20 go through RPSs and buy the transmission grid and all of  
21 that. We're running into that and we see it manifested in  
22 how we're being treated in interconnection processes.

23           CHAIRMAN BAY: Thank you, Todd. Bob?

24           MR. KAHN: Yeah, just to endorse the specifics  
25 that Todd Glass walked you through. I would endorse that

1 entirely and to key off Commissioner Clark's comments.  
2 Yeah, we need to be on the watch out for the gaming by the  
3 regulated utilities. The notion of cooperative federalism  
4 is going to work if it's a two-way street.

5           And then, at the risk of being just a little out  
6 of the box, we continue to appreciate FERC's gentle  
7 circumspect support of our creation of the Westwide ISO  
8 headquartered in Folsom. Because at the end of the day,  
9 that's kind of what we're looking for here. Access to a  
10 market. We suffer under the monopsony power situation.

11           And that's why all this stuff about PURPA. It's  
12 there as the backstop. But it is not the preferred outcome.  
13 What is the preferred outcome, is that ISO. So we know it's  
14 difficult, but we are making progress and that's why we care  
15 so much. Top to bottom.

16           CHAIRMAN BAY: Thank you, Bob. Jerry?

17           MR. BLOOM: Thank you, Chairman. In terms of  
18 the California Cogeneration Council and our experience, I  
19 think there would be three asks -- I certainly concur with a  
20 number of the comments. First and foremost is, we really  
21 think it's critical to maintain the mandatory purchase  
22 obligation and we do need to look at the interconnection and  
23 the ease of interconnection.

24           The second one -- a number of the panelists have  
25 referred to this -- there are contracting abuses that are



1 occurring, megawatt size limits that are just completely  
2 unrealistic, terms of two years -- that whole trend that's  
3 going on in the states across -- someone needs to step in  
4 and say, "Wait a minute. That's not PURPA. PURPA didn't  
5 mean two years." These were long-term commitments.

6           And the third thing. I'm going to step out, a  
7 little bit out of the box, too, is we need to take and ask  
8 FERC to take a more careful look at these markets that are  
9 emerging. So with due respect, in terms of CHP and others,  
10 there is no capacity market that provides long-term capacity  
11 and energy pricing. Those markets don't exist.

12           So we have been caught in this paradigm, where  
13 we're looking at the existence of whether it's MISO or PJM  
14 or whatever it is, these markets are not providing the type  
15 of compensation that was contemplated and so the third ask  
16 on our side would be, as we look at, and particularly in  
17 California, we suspended the "must take for above 20  
18 megawatts", but the message is, those markets are not  
19 working for us.

20           The markets that exist, the Cal ISO markets, the  
21 regional markets, are not providing a viable output or a  
22 viable option to put your power. And we really need FERC to  
23 start looking at that and saying, "Wait a minute. Maybe the  
24 criteria in our analysis here isn't what we thought it was."  
25 Because what we're seeing is a drop-off in CHP. You don't

1 have new development, because there simply isn't with an  
2 absence of a mandatory purchase obligation, there simply  
3 isn't a viable market that provides the compensation that we  
4 need to continue operating or to build new generation.

5 CHAIRMAN BAY: Thank you. Anyone else? All  
6 right. Thanks everybody. Colleagues? Cheryl, Tony?

7 MS. SIMON: Thank you very much. So I wanted to  
8 actually go to this issue of the 20-megawatt rebuttable  
9 presumption in the organized markets. And some people have  
10 felt that it's very important to retain that limit, and  
11 other people have felt that it's important to remove that  
12 limit.

13 So I wanted to ask a number of questions, and  
14 people can take them up as they see fit. So my first  
15 question is, is there an alternative, for those who think  
16 that the 20 megawatts is the wrong number, is there another  
17 number that would be more appropriate? Is there a size  
18 limit? It just isn't 20 megawatts anymore, and is there  
19 some other number that might be more appropriate?

20 For those of you who think that the 20 megawatt  
21 should be retained, can you talk a little bit about some of  
22 the challenges that the smaller units actually do face  
23 getting access to those wholesale markets, and for those who  
24 think it should be eliminated, would there be a presumption  
25 that could be rebutted, that is, that a QF would have the

1 opportunity to show that it did not have access to a  
2 nondiscriminatory market?

3           And what type of a showing would be expected to  
4 make so that they could have a purchase obligation? So my  
5 guess is everybody's got some thoughts on this topic, but  
6 we'll start with Laura.

7           MS. CHAPPELLE: Why am I the only one that has a  
8 card up? That's odd. Let me just say off the top of my  
9 head, again, that's an excellent question. But I think with  
10 regards to the size limit, I think the size is just right,  
11 that the rebuttable presumption should stay on the 20  
12 megawatt in smaller facilities.

13           And I'm thinking in Michigan, you know, an  
14 18-megawatt biomass plant is very similar to one of our  
15 2-megawatt hydroelectric plants, in the sense that, these  
16 are not -- they're not market savvy. They're not like  
17 transmission owners or large generation owners that have a  
18 seat at the MISO table.

19           In fact, I was thinking off the top of my head,  
20 for all the years I've worked within MISO and PJM, they  
21 don't have a segment for, you know, small qualified  
22 facilities. They're not at the table. And again, that's  
23 beside all of the points on that market simply a year ahead  
24 market, in MISO, could never truly compensate, even in an  
25 IOU for their operations, right? So an IOU in MISO would

1 not say, "We'll simply rely upon the MISO market full-scale  
2 for energy and capacity needs."

3           So mandating that an 18-megawatt biomass plant  
4 do so, for their costs, again, it's just patently  
5 discriminatory and unfair. But mostly I just wanted to say  
6 that the size seems right, again, for these real existing  
7 facilities that don't operate within the wholesale markets  
8 and the wholesale markets are not set up to be long-term  
9 resource adequacy, you know, functions for these facilities.

10           MS. SIMON: Allison?

11           MS. CLEMENTS: Thanks. To Laura's point, I  
12 think there's a new class of customers coming in, commercial  
13 and industrial customers, not all of whom are highly  
14 sophisticated. Some are, but that size is right about where  
15 they're coming into the market, 5 megawatts plus, and I  
16 think that's an important consideration.

17           When it comes to the specific challenges that  
18 potential qualifying facilities under 20 megawatts continue  
19 to face -- we've heard a few of them -- the interconnection  
20 at the distribution level that Todd mentioned, not only has  
21 interconnection issues, but there's potential pancake rate  
22 issues, distribution charges before you can get your power  
23 onto the wholesale system, transmission system.

24           There are also a bunch of costs that come along  
25 with the development of projects that don't scale. If

1 you're having a party, and you're going to rent a band, it  
2 costs the same if you rent that band for ten people or a  
3 hundred people.

4           So when you're thinking about the engineering  
5 costs, and you're thinking about the legal costs involved,  
6 especially when you're not working with a standard offer  
7 contract that provides certain year-round curtailment and  
8 indemnities and all the provisions that Todd mentioned  
9 earlier.

10           Those have still specific challenges. When it  
11 comes to just the administration of being a small developer  
12 and staff to -- from a control room perspective to filling  
13 out the right forms, to even trying to find the right  
14 committee meeting in PJM or MISO, let alone, kind of being  
15 able to engage productively around the content.

16           All of those are specific challenges to smaller  
17 generating developers, even in markets with otherwise, kind  
18 of, rules on paper that provide access. And I think those  
19 are the reasons and FERC, as recently as last year, has put  
20 our position as kind of recognizing that rationale, which we  
21 continue to witness around the country.

22           MS. SIMON: Jerry?

23           MR. BLOOM: Thank you. In terms, Julie, your  
24 first question. I'm kind of caught as to saying I think I  
25 can cause comments, 20 megawatts is fine, but given our

1 membership and when we have industrial manufacturers who  
2 produce a lot of steam, frankly, even the 20 megawatts isn't  
3 high enough if there's not a viable option or alternative,  
4 in terms of where you put your power.

5           In terms of the less than 20 megawatts, we've  
6 already mentioned interconnection, but I want to mention  
7 another one, which is the contracting. When we suspended  
8 the greater than 20 megawatts in California, we also  
9 negotiated a new standard offer for under 20 megawatts. If  
10 you get rid of the mandatory purchase obligation for  
11 under-20, the small QFs are not going to have the ability to  
12 sit with utilities.

13           We've known this since the early '80s when we  
14 needed standard offers to get this industry off the ground,  
15 but even today, fast forward thirty-five years later, we  
16 still needed a standard offer agreement. So another issue  
17 is certainly contracting.

18           And the third issue is the small QFs who don't  
19 have the ability, their widget manufacturers, their schools,  
20 their prisons. They don't have the ability to go in and  
21 play these markets. They don't have the ability, certainly  
22 in terms of CHP again, to move with the fluctuations in the  
23 market. This is a very different opportunity.

24           And the third one is the presumption, in terms  
25 of the QF's access to the market. I also want to again

1 change the question a little bit. It's not access to the  
2 market. It's what the market is. Having access to a market  
3 that doesn't give you enough payment in terms of  
4 compensation to own and operate a CHP or renewable facility  
5 becomes meaningless.

6           So it's not just the existence of market, it's  
7 not just the access to market, but it's the specific focus  
8 which I made in my last comment, to what that market is and  
9 what the products are being sought in those markets and  
10 whether they meet the needs to now, the PURPA QF facility  
11 actually get built, operated and maintained.

12           And that's the key that we're missing is that  
13 you have to look at what those markets actually are. It's  
14 not just access, it's the market, it's the compensation,  
15 it's the products that those markets are seeking.

16           MS. SIMON: Charles.

17           MR. BAYLESS: Yeah, I don't really have a  
18 "brightline" solution which everyone likes. Though, if you  
19 look at the 20-megawatt demarcation, it's not really having  
20 much of an effect, at least in North Carolina. Every year  
21 the IOUs in North Carolina are required to file a report  
22 with the North Carolina Commission, stating interconnection  
23 requests in PPAs.

24           In 2015, there were 723 interconnection requests  
25 outstanding. Only twenty-five of those were over 20

1 megawatts. Most of those had not even been filed with the  
2 North Carolina Commission yet. Out of all the PPAs that  
3 were outstanding for Duke and Dominion, there were 887, only  
4 five were over 20 megawatts. So the 20-megawatt demarcation  
5 is having a very little effect on most of the PPAs.

6           Now there -- I'll admit, there are quite a few  
7 unsophisticated players out there. But there are also some  
8 major players out there in the under 20-megawatt category.  
9 I went back to that same report and, out of all the PPAs  
10 with Duke in progress and Dominion, 104 of those 887 were  
11 with one solar provider. And only one of them was over 20  
12 megawatts. So there are some very major players out there  
13 playing in the under-20-megawatt field.

14           And in North Carolina, we have the additional  
15 problem -- 5 megawatts may not even be proper. The NCUC  
16 requires standard contracts under 5 megawatts. We have  
17 many, many projects to come in at 4.998 megawatts. There is  
18 a constant flow every day of those sort of projects.

19           MS. SIMON: Thank you. Joel?

20           MR. SCHMIDT: Thank you. Great question. As  
21 would be expected with EEI's diverse membership, we did have  
22 this question come up and being from Iowa, I guess I'll say  
23 this probably falls into somewhere between a straw poll and  
24 a caucus response, but I think it can give you a directional  
25 to the question.



1           I think generally most of the membership was  
2 probably maybe 0 to 5, maybe to 10, seemed like the sweet  
3 spot. We were of firm agreement that it needs to be looked  
4 at. I think that's come through on a lot of the comments.  
5 We obviously had some members that were at 0 -- just do not  
6 think it's there.

7           As far as the second part of your question about  
8 access to FERC to work through differences, I think it would  
9 be hypocritical on our part, and was not our position that  
10 it's a one-way street in here. I think it's a matter of we  
11 see that.

12           Hopefully some of the guidance and some of the  
13 other options that we've put forward would not overwhelm you  
14 with those types of one-off hearings, but I think if we can  
15 focus on that, because I think what's really coming through  
16 here is, what was very similar markets in 1978 are limited  
17 options, now has so many different facets to it that really  
18 have to be taken into account.

19           But I do want to go back. We kind of keep  
20 avoiding avoided cost and I do look forward to having the  
21 bleacher seats this afternoon, because I do think, what it's  
22 reminding me of is, every commercial transaction I've been  
23 involved in since I bought my first piece of candy as a  
24 youth to working on PPAs and EPCs and every other acronym in  
25 our industry, it still comes down to price and compensation.

1           There's been a lot of talk about what is needed  
2 for the financial viability of the developers. I can relate  
3 to that. I relate to that with my industrial customers,  
4 with my small customers as well. I believe my role, our  
5 role, as the service providers is to take into account the  
6 value they bring. It's not really my issue if that  
7 compensation makes it or not, and hopefully we can have  
8 better systems into the future to work through that.

9           When I think of small players in this, I think  
10 of my customers. Our service territory, 25% of our  
11 customers make less than, household incomes of \$25,000 or  
12 less, and 50% make \$50,000 or less. So cost, when other  
13 options are available, have to be considered. We always  
14 have had to, and I can't see this industry not having to  
15 look to the future.

16           We have to do some predictions, some commitments  
17 to future prices and we have to bring that into the system.  
18 So back to the direct question, somewhere between 0 to 20,  
19 landing in the lower quartile.

20           MS. SIMON: Thank you. We on the staff  
21 struggled also with the basis of deciding which issues were  
22 on this panel, and which were on the afternoon panel, but we  
23 couldn't do a whole day with twenty of you, so we had to  
24 break it somehow and this was -- we understand it's a little  
25 bit of a Venn diagram, but we appreciate everybody staying

1 on this topic and look forward to this afternoon as well.

2 Irene?

3 MS. KOWALCZYK: Yes, to us IECA members, I think  
4 that 20-megawatt threshold feels about right. But I would  
5 say, interesting we have experience, say, in Virginia, where  
6 we have the standard contracts for those under-20 megawatt  
7 QFs and we haven't seen that same just massive amount of  
8 inter -- requests that we had in North Carolina that was  
9 described.

10 I think that's partly because in North Carolina,  
11 it was compounded with kind of investment tax credits that  
12 were given at the state level and you had the production tax  
13 credits at the federal level and -- this just made it so  
14 incredibly fruitful to pursue those projects where we didn't  
15 have those issues in Virginia. And so I think it's not a  
16 PURPA problem. It's all of these compounded incentives that  
17 have resulted in a proliferation of huge number of these  
18 projects.

19 Getting to the other question that you asked,  
20 where are the challenges that we still face? I would say,  
21 and I know that you've wanted this for the discussion for  
22 this afternoon, but really, in the area of interconnection  
23 and the standby rates, I know that the FERC had put out  
24 rules that said that "the design for the rates for standby  
25 services should not be based on the assumption that forced

1 outages by QFs will occur simultaneously or during the  
2 system peak or both."

3           And yet we've seen lots of situations where  
4 utilities simply refuse to design standby rates according to  
5 these principles. On the interconnection side, for CHPs in  
6 particular, as I noted in my introductory comments that CHP  
7 units should be not put into the over-20 or under-20 based  
8 on the entire size of the facility, but rather on what they  
9 could export to the grid. Because most of the output of the  
10 CHP units is used to serve load that's behind the meter for  
11 those industrial facilities.

12           MS. SIMON: Thank you. Todd?

13           MR. GLASS: I actually think that Order 688 and  
14 the Commission was quite prescient on 20 megawatts, and the  
15 solar industry, I would say, generally agrees. It's at sort  
16 of a natural break point for the development of a project  
17 and the financing of a project. Projects less than 20  
18 megawatts are generally -- not always -- but generally  
19 interconnecting the distribution grid. The larger projects,  
20 larger than 20, generally transmission grid.

21           The interconnection processes are therefore  
22 different. The siting, the how the contracting, generally  
23 the larger projects can participate in an RPS, RFP or RFO,  
24 excuse me, Request for Proposal, the types of things that  
25 are run more easily. They have greater economies of scale,

1 so they're able to compete. The smaller projects face a  
2 sort of a tougher set of just localized issues that we've  
3 been referring to.

4           And then finally it's sort of a natural  
5 breakpoint in the financing of a project. The smaller  
6 projects generally have to be thrown into a portfolio to be  
7 financed, because they're too small for any one financier to  
8 say, "Yeah, I'll put tax equity into that, or I'll put that  
9 onto this." They're generally rolled together, whereas  
10 projects 20 megawatts and larger, can be financed by  
11 themselves on a single basis. So I think 20 megawatts works  
12 pretty well.

13           MS. SIMON: Kendal?

14           MS. BOWMAN: Thank you. First, I'd like to  
15 address some of the comments -- when we were discussing  
16 North Carolina -- we serve a lot of customers in North  
17 Carolina and that's where I live. So I want to address, you  
18 know, first I think Charles was talking -- North Carolina's  
19 kind of hybrid. You have Dominion North Carolina Power that  
20 is a part of PJM, which is a very northeastern corner of  
21 North Carolina.

22           And then you have Duke Energy Carolina and Duke  
23 Energy Progress that serve the rest of North Carolina and  
24 are not part of PJM. So you've got kind of both worlds  
25 there. You've got access to PJM in the organized market,

1 and then you have the bilateral market, or unorganized, what  
2 term you want to use for that.

3           But in North Carolina in 1984, the North  
4 Carolina Utilities Commission, I think it was really based  
5 upon small hydro, established that -- and you're allowed to  
6 under PURPA, you know, PURPA says 100KW and less is  
7 guaranteed standard contract, voided costs rights, and it's  
8 left to the states to implement if they want to do anything  
9 more than that. And in 1984, North Carolina established the  
10 5 megawatts and less were guaranteed that standard contract  
11 and the standard voided cost rate, which was set every two  
12 years in North Carolina.

13           Fast forward to 2007 and North Carolina passes  
14 an RPS. They also have a tax incentive, a 35% state tax  
15 incentive on top of the federal 30% tax incentive, and then  
16 they also have property tax abatement, as well. You start  
17 to see a lot of solar adoption, particularly in the eastern  
18 part of the state, lot of farm land, lot of old tobacco  
19 farms that no longer exist, cheap land, open fields, no  
20 trees, perfect for large-scale solar development.

21           On top of that, you have this 5 megawatt  
22 guaranteed standard offer, avoided costs rates pretty darn  
23 good in North Carolina, historically, and you see this  
24 burgeoning bloom of solar development in the state. That's  
25 really -- it's a combination of factors. The 35% state tax

1 credit incentive went away this December, December 15th.  
2 We've not really seen it let up yet on the gas pedal of  
3 solar development.

4           So you know, in my mind, it's not just the  
5 incentives, it's not the RPS, but it is driven by a  
6 combination of factors and one of those clearly is PURPA and  
7 the state's implementation of that 5-megawatt standard  
8 offer. And it goes into how you calculate that avoided  
9 cost. I agree that's for this afternoon's panel, but there  
10 are a lot of things you can do in the calculation of that,  
11 of what it costs, it can drive things one way or the other.

12           But back to your original question about, you  
13 know, what size? I think the question is geared toward the  
14 organized markets, at least in my comments. I was talking  
15 about reducing that size in the organized markets. Don't  
16 really have a specific number, but I will caution that  
17 whatever number, if you're going to change it, I think you  
18 see gaming and people playing around to that number, because  
19 over 60% of what's been developed in North Carolina has been  
20 at 4.99 megawatts.

21           And it's -- they're gaming that system because  
22 they can get that standard contract for 15-year term, so I  
23 caution you when you look at that, and I agree with Joel, I  
24 think it should definitely be at the lower end. I think  
25 developers definitely have gotten much more savvy. So I

1 would say, looking towards the lower end would be better.

2 MS. SIMON: You provoked some response, so --

3 MR. KAHN: It's really a treat to hear Kendal  
4 express so vividly an IOU's perspective on what, from my  
5 points of view, it sounds like a really good thing. I mean,  
6 you know, you create incentives, that's a matter of state  
7 policy, certainly isn't a concern of FERC's. It's a matter  
8 of state policy to create a certain objective and the  
9 private sector steps up to do it.

10 Now I can understand concerns about gaming with  
11 the "one-mile rule". Actually I can understand that. But I  
12 don't understand how gaming applies to somebody who complies  
13 with your state ceiling of -- and comes in at 4.99 -- that  
14 just seems smart to me. That's not gaming.

15 So in any case, look. Somebody will see this  
16 kind of development as a bad thing and those of us here, in  
17 the middle of this panel, are thinking it's a good thing.  
18 And so, you know, and all the great use of tobacco land for  
19 solar development? That sounds really good to me. What is  
20 the problem? PURPA's clearly working in North Carolina.

21 MS. SIMON: We have some questions from the  
22 Commissioners

23 COMMISSIONER CLARK: Just a follow up this  
24 specific question, which is -- I'm curious if anyone has a  
25 take on whether the real issue is not so much the megawatt



1 threshold level? Because wherever you set it, you're going  
2 to have that issue. Is the question more about the  
3 Commission's own precedent in interpretation with regard to  
4 the rebuttable presumption of the nature of access to the  
5 market?

6 In other words, has the Commission in those  
7 under-20 megawatt situations, has it hit the sweet spot  
8 where it's generally sort of gotten that rebuttable  
9 presumption right? Or is there something that we should be  
10 looking at differently in terms of how we analyze that  
11 particular issue, which I think will come up, regardless of  
12 where the line is drawn.

13 MS. SIMON: Comments on that? Or we still have  
14 people going back to the other issue? Jerry?

15 MR. BLOOM: I think I can hit the -- I had the  
16 same reaction, in terms of Kendal saying "gaming". If you  
17 set a limit, in California, the California Energy Commission  
18 took jurisdiction over permitting if you were over 50  
19 megawatts, and we had a tremendous amount of 49.9 megawatt,  
20 because the permitting was done by the local agency.

21 That's not gaming the system, that's looking at  
22 the rules and participating based upon the rules you set.  
23 You can't suddenly turn that into "I'm gaming it" because I  
24 comply with the rule, or I structured my project to comply  
25 with the rule.

1           The second comment that Kendal made was of the  
2 attractiveness of what it cost. Again, that's this  
3 afternoon, but again, I go back to a point I made earlier.  
4 If it is the utilities' avoided cost, if it's not being set  
5 right, if it needs to be updated more, all those issues are  
6 there, but all the carrying on about the avoided cost is too  
7 high. It's not supposed to be. It's supposed to be the  
8 full avoided cost utility, but again, that's an  
9 implementation issue. It's not a problem with PURPA if it  
10 is avoided cost.

11           In terms of the rebuttable presumption, I do  
12 think you have it about right at 20 megawatts. Smaller QFs,  
13 they don't have that ability to access the market in the  
14 same way that larger people do. Again, what is the product?  
15 What's the market, what's going on? How are they reactive?  
16 Those types of things. So I think your, to answer you,  
17 Commissioner, are right at about the right size limit. Todd  
18 laid out a lot of the issues as to what types development,  
19 who are these developers are.

20           But small QFs don't have that ability to  
21 understand and play in the markets and access the market and  
22 is certainly the point I've been making a lot today and  
23 certainly the CHP, those marks don't provide a product or  
24 aren't buying the product they're trying to provide or sell  
25 anyway.

1           COMMISSIONER CLARK: Just quickly, to clarify my  
2 question. It's not so much about the, whether we've got the  
3 megawatt threshold right. It's more about once we --  
4 regardless of where that's set, once we get a request to  
5 determine whether there's actually access to a market or  
6 not, do we have the standards that the Commission has been  
7 using to either, to sort of rebut that presumption? Has our  
8 analysis been generally right in that? Have we, or have we  
9 set up an impossible situation where it can almost never be  
10 proven that they have access to the market?

11           MR. BLOOM: That's exactly the issue that I was  
12 addressing in my latter comments. The answer, I think, is  
13 no. I think, in terms of what those markets actually are  
14 and how you access them, we're not getting it right and the  
15 proof of the pudding is that, when we're suspending the  
16 mandatory must-take, the cost of those markets. And then  
17 CHP, for example, stops developing, obviously that didn't  
18 provide the access.

19           So I think the answer to your question is, we're  
20 not getting the criteria right, we're not analyzing what  
21 those markets have correctly in making those determinations,  
22 and I think that's a critical issue if we're going to have  
23 the continuation, certainly of CHP, and in terms of grid  
24 modernization and the types of things, the distributive  
25 generation that we're looking at. We need to look at it

1 differently to answer your question. I don't think we're  
2 doing it correctly.

3 MS. SIMON: Todd?

4 MR. GLASS: Couple of quick thoughts. The first  
5 one is, is that, the 20-megawatt rebuttable presumption  
6 works and I think, for the reasons I've said before, I think  
7 it works. I think that when you look to the ruler by which  
8 you can rebut the presumption, it starts with the statute,  
9 and the statute, I think, makes pretty darn clear how it --  
10 and so I would remain true to that. I think that there is  
11 some confusion that we had in the West in the go-round about  
12 20-megawatt projects versus 5, and what's going on in North  
13 Carolina, which I think is useful.

14 The reason why people are designing  
15 4.999-megawatt solar projects in North Carolina is because  
16 once you go over 5, you're thrown into a very difficult  
17 contracting situation. It's -- they would much rather do  
18 4.99999 and get a standard offer contract where you can fill  
19 in the blanks and get the avoided costs and be off to the  
20 races, versus something larger where you may never get a --  
21 .

22 That's sort of some of the dynamics, because it  
23 is a really superior situation to be able to not have to  
24 negotiate the terms and conditions and some of the things  
25 that are going on in ecoplexes, you know, and some of the

1 developers there are encountering having to go to  
2 arbitration to get to the point where they have a  
3 financeable PPA and then two weeks later, being presented  
4 with a different PPA, but strips out everything that just  
5 came out of the arbitration. Just two weeks before.

6           There's this -- the dynamic of abusive  
7 contracting practices, which one would almost think that  
8 their desire is to make the PPAs for those projects, you  
9 know, unfinanceable, as a means to get rid of projects in  
10 the queue.

11           MS. SIMON: Laura?

12           MS. CHAPPELLE: Just a few thoughts. One,  
13 Commissioner, I think the rebuttable presumption needs to  
14 stay with the utility. And that's important to say.  
15 Putting this presumption, however you fashion any changes,  
16 somehow on the QF, is -- and various commenters have  
17 detailed this particular topic -- but would be a particular  
18 burden to kind of, you know, approve a negative.

19           But the rebuttable presumption, preferably stays  
20 on the utility. In Michigan, it seems again to have been  
21 working under the current statutory guidance. And our two  
22 large IOUs received waivers for QFs 20 megawatts and above,  
23 over 20 megawatts, I should say, but something like in 2012  
24 and 2013, respectively.

25           And I don't think there was too much pushback on

1 that. Actually I think some of the pushback in one of the  
2 dockets was seeking FERC assurances that the utility was  
3 actually asking for the waiver for over 20 megawatts, not  
4 under, because that is so sensitive, even back in 2012,  
5 2013.

6           So you know, but the framing is right, and I  
7 can't go beyond answering this without getting into avoided  
8 cost, but I would encourage you -- I think the comments on  
9 the question of what is nondiscriminatory access mean, and  
10 in Michigan, one of our utilities offered to be the  
11 middleman -- "We'll help be the conduit into the MISO  
12 market."

13           But again, when you're looking at avoided costs  
14 or you're looking at how this is set up, it should be  
15 reflective of the utilities' avoided cost. What the utility  
16 is essentially obtaining itself for energy and capacity.  
17 And when the utility is obtaining a rate far above the rate  
18 that they're trying to impose through market access to a QF,  
19 somewhere upwards of 50% lower, it's nondiscriminatory  
20 access.

21           And so that has to be taken into account,  
22 drilling down to actually, what does that mean? What would  
23 it mean to a small QF in Michigan? To subject them to the  
24 MISO market, cost-wise? And if you look at that, you'll  
25 probably find it would violate, you know, PURPA's

1 requirements of being nondiscriminatory access to the QF.

2 MS. SIMON: Joel.

3 MR. SCHMIDT: Thank you, Commissioner Clark and  
4 yes. For EEI, it is much more, I think, about the  
5 rebuttable presumption. I think Laura has stated where our  
6 position is, and it is different. It is our position that  
7 QFs in organized markets under 20 megawatts or  
8 fill-in-the-blank, prove that they don't have access to  
9 markets.

10 And it's really, again, back about this access  
11 to markets and clarity there. The industry markets have  
12 come a long way and I would say the rate of change and speed  
13 is only accelerating, so I think it needs to be taken into  
14 account that there's a level of burden of proof on both  
15 sides here and that's where I think the clarity and guidance  
16 can be very helpful.

17 MS. SIMON: Allison?

18 MS. CLEMENTS: Commissioner Clark, I appreciate  
19 that question, and I think that the cases that I have been  
20 able to find where the Commission has made a determination  
21 on the rebuttable presumption, saying that the smaller than  
22 20 megawatt QFs do, in fact, have access to the markets in  
23 Fitchburg and Burlington. It was a very facts-specific  
24 analysis. And that's what the beauty of rebuttable  
25 presumption is, is that the facts matter.

1           I think in this case, just like in 2005 perhaps  
2 Congress was really forward-looking when it was thinking  
3 about, you know, real opportunity for long-term capacity  
4 sales for small QFs in a large part of the country. We're  
5 not there yet on this below-20 megawatt piece. And so the  
6 ability for utilities to come in and say, "Hey, this isn't  
7 right. These guys are playing all over the markets.  
8 They're selling capacity energy ancillary services." That's  
9 great.

10           But if you think, just for example, in PJM,  
11 where there've been a lot of rule changes around the  
12 capacity market, you think about a small solar developer  
13 who's got some 10-megawatt projects, even five 10-megawatt  
14 projects. To master the understanding of how resources can  
15 participate, how they can aggregate, which parts of year,  
16 what products they qualify for -- that is coming. We're not  
17 there yet.

18           And so, in that case, I think the status of this  
19 rebuttal presumption kind of provides everybody with a fair  
20 opportunity. And to the point that Laura made, I do really  
21 think, and we've -- this is kind of a theme -- that the  
22 small qualifying facilities don't have their resources,  
23 legal, financial, otherwise, to start bringing up all these  
24 issues on a one-up basis at first.

25           So to the extent there's an opportunity within



1 FERC's jurisdiction, to provide some sort of expedited  
2 access or kind of low, you know, easy, like the small  
3 interconnection procedures on the PURPA front, I think that  
4 would be helpful on this front.

5 MS. SIMON: Okay, I don't want to take up all  
6 the time, so I'm going to turn to my colleagues. Larry, did  
7 you have any questions?

8 MR. GREENFIELD: Actually, there were several  
9 that were prompted by the conversation this morning. Let me  
10 start off with a general question. There are a number of  
11 people on the panel who noticed, or commented that, in order  
12 to really promote or develop QFs, the developers need  
13 longer-term contracts. They need more than a year or two.

14 And I was wondering, because I don't think the  
15 utilities are the cooperative representatives on the panel,  
16 for that matter, Mr. Kjellander, really had a chance to  
17 respond to that comment, because we wander off on other  
18 directions on other topics, and I thought it's worth perhaps  
19 taking a moment or two to talk about what kind of contract  
20 length the QFs need or don't need, as the case may be, in  
21 order to develop -- I'll pose an open-ended question and  
22 I'll let President Kjellander take first crack at it.

23 MR. KJELLANDER: Thank you. I think, simply  
24 put, my role is to be an economic regulator and so, as I  
25 began to look at some of these cases that have come forward,

1 one of the clear functions or -- it really isn't a function,  
2 it's not my job as a regulator to make a developer rich. It  
3 is not my function as an economic regulator to ensure that  
4 they can get a project financed.

5           Instead, you know, it's to look at the overall  
6 balance of whether the resources need it, whether the price  
7 you can get for it is correct, where they can get it in the  
8 system. And ultimately, what the financial impact is on the  
9 customers.

10           And what we've seen, and I mentioned it earlier,  
11 is that, with PURPA today, in order to deal with the  
12 disaggregation problem that we had, the tools that are in  
13 PURPA are very blunt instruments, in a way to try to get at  
14 trying to avoid this, this gold rush effort to get these  
15 projects online in large quantities.

16           So we were left with having to tinker with the  
17 spigots that we had that are very blunt. And so the gaming  
18 issue, I think, really, is what led to a lot of the  
19 adjustments and changes we've made at the state level in  
20 Idaho over the last six to seven years.

21           If that disaggregation issue were resolved or  
22 had never emerged or had the ability to deal with it in its  
23 time and place, we might not made some of the decisions that  
24 we did make at the state level over the last five to seven  
25 years because we could've addressed the issue of

1 disaggregation and not seen that flood of projects come in  
2 in a lumpy scenario in which they emerged, and, at an  
3 extraordinary cost to customers at the end of the day.

4           So I guess, just in general, that's where I  
5 wanted to be with that response and I realized that, you  
6 know, stating it the way I did, maybe some people think that  
7 I'm not a capitalist. Now, capitalism's great. It's  
8 fantastic, but when there's a potential impact on customers  
9 that is bringing on resources before we need them, meaning  
10 we have to pay for resources before we need them, as an  
11 economic regulator, I have a problem with that.

12           MR. GREENFIELD: Bob, you are first up.

13           MR. KAHN: I want to call attention to a  
14 semantic issue that's important. In Idaho, there's no such  
15 thing as an electric customer. A customer is someone who  
16 can shop at Macy's, Target, Nordstrom's, Neiman Marcus,  
17 whatever they can do. That's a customer. What there is, in  
18 Idaho, Oregon and Washington, are captive customers or more  
19 commonly known as rate-payers.

20           So in President Kjallender's role as an economic  
21 regulator, you got to start by getting the semantics right.  
22 The Idaho Commission is more than capable of performing its  
23 job, and it does. When it comes to PURPA, it has  
24 overreached. The two-year limit on contracting, which kills  
25 development flat out, for reasons I'm sure others are better

1 qualified to explain, was preceded by decision on the  
2 LEO, legally enforced obligation, where the Commission  
3 overreached, shall we say.

4           So, in any case, let's get at least the  
5 terminology right. At the end of the day, the proof is in  
6 the pudding. Historically, PURPA projects have  
7 outperformed, meaning given rate-payers' lower costs of  
8 power than Idaho power has. And, you know, we don't have to  
9 quibble about facts or an agreement there, but the record  
10 will show it at any time if anybody wants to see it.

11           MR. GREENFIELD: Todd.

12           MR. GLASS: Thank you. Great question. How  
13 long of a term is long enough? I think you start with the  
14 statute. The statute says "encourage cogeneration and small  
15 power production." That doesn't mean encourage it, but then  
16 don't let it actually be built.

17           Second thing, is you look at Order 69. Order 69  
18 made very clear that it was a long-term contract to provide  
19 energy and capacity to the utility, not a short-term. Two  
20 years is not long-term. I don't think I've ever heard of  
21 two years as being considered to meet that requirement of  
22 long-term. The reality that I pointed to on my opening  
23 statement is that fifteen to twenty years is long-term.

24           The Oregon Commission, in discussing it, made it  
25 fifteen years fixed price, and then prevailing market price

1 for the latter. That's still long-term, and that is still  
2 financeable at fifteen plus market price. Two years is not  
3 a long-term contract. It is not financeable.

4           You know, this is something that I think that  
5 the Commission really should look at, and look at very  
6 deeply, and look at what's happening throughout the states.  
7 I mean just last Friday, the North Carolina Commission said,  
8 and I'll quote, we will "for 2- to 20-megawatt projects, we  
9 will decline to require that they entered into a PPA of a  
10 stated length, and we will leave it to negotiation."

11           Who's got the market power? Who's in charge?  
12 The Commission, this Commission, in its enforcement role,  
13 should be in charge of making sure that Order 69 and PURPA  
14 is observed. A long-term contract means a long enough time  
15 to be able to develop and finance a project.

16           MR. BAYLESS: I'll start off by saying, we don't  
17 have customers either. We have members who actually own the  
18 distribution co-op and the electric distribution facilities.  
19 But there's been talk about the inability of small QFs to  
20 obtain contracts because of their size and they need a  
21 longer term. But there's another side to that. Not all of  
22 us are IOUs with a million customers and billions of dollars  
23 of assets.

24           Our smallest member in North Carolina is 8,000  
25 customers during the peak tourist season and 5,000 members

1 on off season, so it's in the outer banks of North Carolina.  
2 Entering into a fifteen- to twenty-year contract for that  
3 Co-op would tie up a significant amount of their assets.

4           Something around the five-year range would  
5 probably be acceptable to them, but if they were forced to  
6 enter into some of these very long-term contracts it would  
7 represent a significant amount of their generation,  
8 significant amount of their power supply contract for a long  
9 time and they have less headroom to absorb those types of  
10 contracts, as opposed to larger utilities, so just something  
11 to keep in mind.

12           MR. BLOOM: I think Todd hit -- well, the one or  
13 two years for a number of reasons that have already been  
14 stated -- it's not long enough to develop a contract, in  
15 terms of anything that's really viable. For example, again,  
16 in California and in our settlement, existing QFs got  
17 five-year contracts, new QFs got twelve-year contracts, so  
18 they could actually realistically have some possibility of  
19 developing new contracts.

20           The other issue I just want to respond to again.  
21 We keep hearing these comments that we're not here to make  
22 developers rich and the impacts on customers. I'm not sure  
23 what happened to the avoided costs and the rate-payer  
24 indifference. Avoided cost is the cost to procure or  
25 produce the power by the utility.

1           So again, coming back to the basic problem here,  
2 if it's not being done correctly, the problem isn't PURPA  
3 and avoided costs, it's the way it's being implemented. And  
4 those fights have gone on for, certainly in California,  
5 since 1981, '82, and continue, you know, all the time.

6           The Commissions have the ability to get avoided  
7 costs right, but complaining that somehow avoided cost, if  
8 it really is the utilities cost and the rate-payer's  
9 indifferent, it just -- I can't quite get my arms around why  
10 we have this huge problem that keeps getting complained  
11 about, because that's really not the issue. It's not PURPA.  
12 It's the implementation.

13           I know you're going to deal with that this  
14 afternoon, but I think it's offensive, frankly, to keep  
15 saying that we're not here to make developers rich. We're  
16 only asking for avoided cost, as was to be determined and  
17 there are rules and regulations and plenty of guidance is  
18 that making those determinations.

19           MS. SIMON: Larry, anything else? Bob? Stan?

20           MR. WOLF: One question I have -- I guess  
21 starting off with utilities, but I'm sure the other folks  
22 have views on this. We've heard a couple times some notions  
23 of, we may not need the additional supply. There's a  
24 tipping point or so forth. What perspective is most helpful  
25 or what can help in analyzing this?

1           I mean, are we talking about when you start  
2 dipping into -- start pushing away base-load supply -- does  
3 that create a problem? Where do the big costs cut in, and  
4 can you give us some more description of that? When is it a  
5 problem for the utilities -- when does the rubber meet the  
6 road in terms of big difficulties arising in taking  
7 additional renewable supply under PURPA or any other supply?

8           MS. BOWMAN: I'll start and I'll just say, you  
9 know, every balancing authority area is different, and every  
10 balancing authority area will likely have a different, for  
11 lack of a better term, what you described as a "tipping  
12 point" or how much they can absorb, but, you know, what  
13 we've noticed, particularly in the Carolinas, is it is not  
14 so much just this, you know, megawatt threshold amount, but  
15 it is actually where they're connecting. What speed? Or  
16 you have to go down to the specific feeder level to really  
17 analyze the impacts?

18           And a lot of that is done in the interconnection  
19 process, but we have started to notice, and I believe I had  
20 some charts in my comments, that in certain times of the  
21 year, and certainly in the summer and I'm really here  
22 talking about solar, because that's what we seen the  
23 proliferation of in North Carolina.

24           You know, it's certainly -- they're a benefit to  
25 the system in certain times of the year and other times of



1 the year they do cause a problem with the system and right  
2 now we're managing it and, you know, there's no fear that  
3 the lights are going to go out in any way, shape or form.  
4 But there are just certain times of the year, particularly  
5 in the fall and the summer and to some extent, in the  
6 winter, that you will have to start shutting down some of  
7 your base-load facilities, or in the alternative, dumping  
8 energy, for lack of a better term.

9           We are certainly not there yet. I don't want to  
10 say the sky is falling. But if you continue to see the  
11 amount going in the future, without any more planned  
12 needs-based approach, you could get to a point where you're  
13 going to have to spend a tremendous amount of money in  
14 upgrading the grid to accommodate it, or do something  
15 drastically different than what we're currently doing today.  
16 So, I don't know if that answers your question.

17           MR. SCHMIDT: Thank you and as Kendal mentioned,  
18 it really comes down to time and place. So it's going to be  
19 different if it's base-load or not. I think most of us in  
20 the industry are facing lower load growth than we've been  
21 used to, and that's from a number of factors. Obviously,  
22 natural gas prices, as we know, are changing dispatch, you  
23 know, by the minute, by the hour, by the week.

24           As well as T&D congestion is starting to play  
25 much more into this, so all generation, regardless of that

1 you're measuring it in -- you know, KW's at the smallest  
2 level to be it utility-owned, be it merchant, be it  
3 unorganized, be it in bilateral, is under economic  
4 challenges.

5           In our particular area in the mid-West, five,  
6 ten years ago, the question was much more "if renewables"  
7 and now the question, both for short-term decisions, which  
8 is "in less than minute" timeframes at our dispatch centers  
9 and what we have to manage load, and also, as I'm  
10 considering long-term investments, be it in modernizing the  
11 grid, being it in maybe life-extension for other assets, or  
12 these new assets, it also comes down to, not "if renewables"  
13 for most of the energy portion, we haven't got the capacity  
14 and all the other things figured out.

15           I think it will come with time. But which of  
16 those -- and air organics continues to us to come back to  
17 the customer. And what are the customer choices? And what  
18 is really fair for those customers if we call them  
19 rate-payer, whatever, and I can get to that, but every phone  
20 call I've got from a rate-payer was a human voice that is a  
21 customer of our product through my career.

22           So I think it really gets to back to, "it  
23 depends", which I know makes FERC, state regulators,  
24 everybody around this table, I'm sure everybody in the  
25 audience, job harder. That's the privilege we have of being

1 in this industry and really making meaningful change for the  
2 health, safety and welfare of our country and our citizens.

3 So I think, unfortunately, there's not going to  
4 be a silver bullet, one-size-fits-all answer here, but I  
5 think you really have to look at it in, I think it's a  
6 matter of "who should be controlling that" and "how should  
7 those decisions be made and what is -- what are the systems  
8 to make sure that the parties have fair treatment and that  
9 it's brought forward. And I do believe FERC has a  
10 significant role in that, as I stated earlier, in providing  
11 guidance.

12 MS. SIMON: Jerry?

13 MR. BLOOM: So when I hear utilities and owners  
14 talk about me, a chill goes up my spine, because the reality  
15 is that the utilities have the ability to build, to procure,  
16 to go under contracts, so what we see in a lot of markets  
17 is, no argument that the plate is now full. We were  
18 approved by the Commission to build these projects. Going  
19 to your comment, Joel, base-load projects. We don't need  
20 you anymore.

21 And the question is, to me, that we have to look  
22 at, is what's the resource planning? What are the  
23 assumptions that go into, so that we don't get into an  
24 argument, that there's no need, simply because they went out  
25 and procured a whole lot of stuff, so there's no need for

1 these QFs anymore because our plate is full.

2           So there's a basic underlying long-term  
3 procurement, modeling assumption, so forth, as to assuring  
4 there's a place at the table for the products and -- I'm  
5 going to go to your last point, Joel -- there's an evolution  
6 going on around the country and a revolution, which is the  
7 consumer who's demanding and wants green energy and green  
8 power and renewable power and efficiently produce CHP power.  
9 And that is what consumers are looking for. And we have to  
10 figure out how to meet their needs and what they want when  
11 we design this.

12           The second thing is, we keep hearing about the  
13 overgeneration. But I want to go back to -- a few of us  
14 have made comments on this -- within the context of  
15 contracting, and if the pricing is done correctly, there are  
16 ways that you can have, and this is happening across the  
17 nation now, curtailments in dispatchability -- all those  
18 things are possible if we look at the way we manage and  
19 operate the resources we're bringing in.

20           So the answer isn't, "Let's get rid of, or  
21 suppress the resources." The question is, "How do we  
22 effectively use the resources?" And that can be done through  
23 contracting, other mechanisms. It's not simply yes or no,  
24 or it shouldn't go on the -- or we should block them from  
25 getting onto the system. It's how we use them and integrate

1     them into the system.

2                   MS. SIMON:  Laura?

3                   MS. CHAPPELLE:  Just real quickly.  Again, in  
4     terms of capacity needs, and I know this is a utility  
5     question, "How much is too much?"  But my broad concern is  
6     articulated by Jerry, that we're witnessing in Michigan.  
7     You know, at a time, obviously when we're retiring a great  
8     deal of coal generation plants, and theoretically there is a  
9     need to replace some of that capacity.

10                   At the same time that utilities are arguing in  
11     our Michigan legislature that they need to build new  
12     capacity, therein, PURPA State Commission Technical  
13     Conference telling the QFs that they don't need capacity.  
14     And I do not exaggerate that point.

15                   So that's something real.  Again, I'm here today  
16     to mostly talk about existing facilities, facilities that  
17     have been on our utility systems for years, decades, you  
18     know, there shouldn't be a displaced need for that reliable  
19     low cost renewable resource, simply because the utility  
20     decides to build a new natural gas generation plant.

21                   So I just ask you to be very sensitive about  
22     that when you're figuring out, you know, where this drawing  
23     line should be of, you know, too much.  Again, I understand  
24     there's unique issues going on in the West.

25                   But at least, from Michigan's standpoint, there

1 hasn't been this explosive growth, and what we see is, you  
2 know we're on your system. We've been on your system for  
3 years. We're low-cost, so you should factor that in before  
4 you go and say you need to build another few natural gas  
5 plants.

6 MS. SIMON: Todd.

7 MR. GLASS: Another great question. First, I  
8 would observe you start with the statute. Statute was not  
9 designed to specifically factor in the utilities' needs. I  
10 would be willing to submit that it's a very small number of  
11 utilities in this country that, since PURPA's been passed,  
12 said, we need QF power, and we want to do more QF deals.

13 I think it's quite the opposite. They haven't  
14 wanted it from the very beginning and they don't want it  
15 now. The second thing that I would say is, as you look at  
16 the specific issue, make sure to not do anything that is  
17 static, or that creates anything that's too cast-in-stone in  
18 time.

19 There are a lot of tools in the toolbox, both on  
20 the utility side, in managing the wires and the grid and the  
21 reliability, as well as on the developer side and the power  
22 producers' side. The utility has a lot of tools. And the  
23 market has a lot of tools.

24 And I think if you look at, for instance, what's  
25 been happening since we, in California, have been worrying

1 about the CAISO's duck curve, you're seeing improvements.  
2 You're seeing everything from market improvements to the way  
3 that utilities are planning for, for the way that developers  
4 are responding to the need. So you don't want to lock  
5 things down.

6           Finally, I would say that, with regard to the,  
7 you know, the interconnection practices, which specifically  
8 go to this need -- it's not just a generation, but it's also  
9 a wires-specific question, you know, if we look at North  
10 Carolina, there's 350-plus QFs in the queue right now,  
11 waiting to get interconnection.

12           The fee was raised from \$1,000 for an  
13 application for an interconnection agreement to \$20,000-plus  
14 per megawatt load. The developers, by-and-large, went along  
15 fine, you know, with the fact that they had to pay more to  
16 get through there. Even though it was retroactively  
17 imposed.

18           Now there's -- the utilities collected something  
19 in the neighborhood of six million dollars in order to do  
20 this. Let's get on with it. Let's study, let's have an  
21 open process, you know, there -- just in the last week,  
22 there have been various assertions that there are power  
23 quality issues and that there have been bad projects  
24 installed, bad QF projects installed, you know, let's get  
25 down to the reality of the situation, rather than just using

1 it as a reason not to interconnect.

2           You know, let's talk about what inverters can  
3 do. Let's talk about how we can solve the problems. Let's  
4 talk about energy storage, let's talk about things of that  
5 nature and resolve them, rather than just say "No. We need  
6 to be relieved of our PURPA obligations."

7           MS. SIMON: Bob?

8           MR. KAHN: Yeah, quickly, it is a good question.  
9 And to which I would respond, "too much for who?" You know,  
10 whom, who is affected? Well, clearly shareholders are  
11 affected. Utility shareholders are affected. It's too much  
12 competitive power coming onboard for their purposes.

13           And let's not confuse net metering with PURPA,  
14 because you know, when we talk about the West, the problem  
15 in the West, you know, it may well be in California and it  
16 may well be the duck curve, right? Which is a function of  
17 solar installations -- a spectacular problem to have.

18           Let's face it. No wonder, you know, PacifiCorp  
19 is so interested in expanding the ISO -- it's a great sync  
20 for free power. I mean, we can solve these problems. And  
21 the core function, it seems to me, of a utility is to manage  
22 the system from a T&D standpoint.

23           At the end of the day, that's their core  
24 function. They're more than capable of doing it. And at  
25 the end of the day, let's not confuse fundamental economic



1 questions with solvable engineering problems.

2 MS. SIMON: Bob?

3 MR. MACHUGA: There's been a lot of discussion  
4 about contracting issues for new QFs. Have similar  
5 contracting issues been encountered for power purchase  
6 agreements that are expiring with existing QFs?

7 MS. SIMON: Laura is here on behalf of existing  
8 QFs, so we'll start with --

9 MS. CHAPPELLE: Yes, of course, but I'll start  
10 by saying I'm certainly biased. But I definitely commend  
11 our Michigan Commission for opening up a proceeding and  
12 spending some time after thirty-four years to really look at  
13 avoided cost issues and other contracting issues.

14 We did have to bring a complaint on behalf of  
15 these small QFs, in order to kick start that process,  
16 because again, it looked like it started to be  
17 utility-driven and at least one of the major IOUs was  
18 proposing short-term contracts at the MISO energy and  
19 capacity level, which would be somewhere around 3 -- 4 cents  
20 on a short-term basis, it was even proposed to do a  
21 year-to-year contract.

22 So yes, we had to bring a complaint -- it's very  
23 much before the Michigan Commission. It's taken some time,  
24 but I think it's been good time, valuable time, good  
25 stakeholder participation, but yes, we're very worried about

1 contracts. We do talk about contracts for financeability,  
2 and I think maybe the assumption is, this is just for new  
3 large QF projects.

4           The existing projects, they also need to go to  
5 banks and work with their financiers and running these  
6 significant facilities for them and their local communities  
7 on a year-to-year or two-year contract is very questionable,  
8 so it affects their financing. But yes, we're living in  
9 Michigan as we speak, all of the issues that we're talking  
10 about here, we're working on in Michigan.

11           MS. SIMON: I don't know who was next.

12           MR. BLOOM: Thank you for that question. The  
13 California Cogeneration Council is all existing gas-fired  
14 cogeneration and it's been operating -- most of our members,  
15 in fact, all of our members signed their initial long-term  
16 power agreements in the early '80s to mid-'80s and came off  
17 of those contracts.

18           The entire problem in California was that the  
19 utilities, even before we suspended the mandatory purchase  
20 obligation, were refusing to enter into new contracts and we  
21 had our members, all of our members, basically with stranded  
22 investment and these are, again, operations that are  
23 integrated into manufacturing, schools, hospitals,  
24 universities.

25           We had a real crisis because utilities would not

1 enter and I've been corrected. I think I said five and  
2 twelve years. The contracts that we negotiated, in terms of  
3 a CHP settlement, we had, there's seven years for existing  
4 and twelve for new.

5           But the problem with existing facilities getting  
6 under new contracts is a real problem and frankly, even  
7 with, as in my opening statement that I submitted in written  
8 form, even with the CHP program, where there have been  
9 extraordinary problems in terms of a number of non-CHP  
10 projects that qualified under the terms of settlement that  
11 led to the program, but converted to EWGs because they  
12 couldn't get CHP related contracts.

13           People who have shut down, people who have  
14 changed their operations, people are looking at change the  
15 operations if the 20 megawatts mandatory put is retained,  
16 but this is a very real and existing problem for our members  
17 in particular, who came off of contracts, couldn't get into  
18 new contracts and continued to need relief.

19           I will say that, even under the CHP program,  
20 these contracts that are seven years are going to expire  
21 soon, as is the problem in 2020, the program itself expires.  
22 We do need to figure out how -- I'll give you a quick  
23 example, but U.S. Borax operates one of the three boron pits  
24 in the world. They can't move, they can't go anywhere.  
25 They have extraordinary thermal needs. They had supported a

1 100 megawatts of generation there. They're going to come  
2 off of contracts. They need a place to keep operating.

3           And there's numerous examples all over the state  
4 and -- recovery and other businesses that are dependent upon  
5 contracts, so even the -- if say, the Band-Aid that's in  
6 place right now, as their seven-year contracts expire under  
7 the program, we have a real issue coming up as to what's  
8 going to happen with the continued operation.

9           The existing fleet, when we sign the settlement,  
10 provided 1.67 million metric tons of carbon reductions.  
11 Because of that that dual efficiency and much of that is  
12 being lost and the potential of what we wanted to achieve in  
13 the state is not being materialized because of the lack of  
14 the mandatory put obligation going for it.

15           MS. SIMON: Todd? Okay. Bob?

16           MR. KAHN: I'll be really quick. You know, one  
17 can't go into a lot of details. It's really not  
18 appropriate, but in one of the three states where NIPPC is  
19 active, in the last five years, two operating established  
20 cogeneration units faced expiring PPAs. Both were acquired  
21 by the IOU to which they were interconnected.

22           MS. SIMON: Okay. Do any of my colleagues have  
23 burning questions? Yes? I'm sorry? You still want to --

24           MR. GLASS: Just really quick. I'm going to pay  
25 the utilities a compliment. They do not tend to

1 discriminate in favor of existing QFs. Existing QFs face  
2 the same difficulty everybody else does.

3 MS. SIMON: Okay. Adam?

4 MR. ALVAREZ: We talked about unneeded  
5 generation and a lot of the utilities -- they were saying  
6 that they don't need generation or they definitely --  
7 building generation, and then another thing is, this is  
8 mainly for the utilities. What do you guys see as a  
9 reasonable resolution on moving forward with QFs?

10 MS. SIMON: So on that simple question, we'll  
11 hear from Kendal.

12 MS. BOWMAN: So, first, let me clarify. I no  
13 way, shape or form said we did not need any energy or  
14 capacity on our systems. Clearly there's always going to be  
15 some kind of a need. You're going to retire something, even  
16 with low load-growth. I'm just saying we need to roll into  
17 QFs in the process of our planning. In the needs-based  
18 approach, and do it in a, you know, in a methodological way,  
19 system planning, to operate your system as reliably and  
20 safety and optimally as you can.

21 So that's what I'm saying. I don't want to  
22 leave the impression that we don't need it and we don't want  
23 it. But we do. We just need to do it in a more systematic  
24 way. That's kind of my approach. I think in the comments,  
25 you know, our suggestions are to kind of go back to the

1 founding principles of PURPA, do it on a needs-based  
2 approach -- if the utility, and I think I talked about  
3 possibly some kind of an RFP, where people come in and bid  
4 into the markets. I know there will have to be lots of  
5 discussion, that's probably something done at more of a  
6 state level than at the FERC. But clearly going back to the  
7 foundation principles of PURPA.

8 MS. SIMON: Joel?

9 MR. SCHMIDT: Kendal pretty much summarized for  
10 us. We do have needs for energy and capacity, but it varies  
11 where and when and I think we want to make sure there. We  
12 have a desire, and I think it can be demonstrated through  
13 interruptible programs, energy efficiency.

14 Some of this, that if we can get energy and  
15 capacity from our customers at competitive prices to other  
16 options, and other options now we can actually even say  
17 other renewable or green options. We're very much for  
18 working through that and having that, but again, it gets  
19 back to where and when and I think we've got to continue to  
20 evolve this marketplace as we have the wholesale and others  
21 to have more of those signals coming appropriately within  
22 that statute.

23 Now, to the thing about shareholders. Yeah, I  
24 agree, there's a difference between us owning generation  
25 that is rate-based in most of our models. I mean I think

1 all of us know the formula. But a lot of our energy is  
2 purchased. We're a heavy purchaser of energy, so what I  
3 look at is like-kind, what's the best interest for my  
4 customers at this point in time, and have to make those  
5 decisions.

6 So if we implied that we don't want the energy  
7 and capacity, we always will have a need for energy and  
8 capacity in various arenas. We just have to make sure we do  
9 it in the best fashion possible.

10 MS. SIMON: Bob? And then Todd?

11 MR. KAHN: Yeah, I'll be brief, because we don't  
12 want to stand between ourselves and lunch for everybody, but  
13 you know, again, examples are helpful. So we have a leading  
14 utility, investment on utility in one of our states that  
15 proposed retirement of one of the coal-fired generation  
16 units, which is a principle source of power. And hinged  
17 their legislative proposal with full expedited replacement  
18 preapproval of them securing replacement for the retirement  
19 of that lost capacity. That's it. That's all she wrote.

20 In terms of going out to compete, in terms of,  
21 you know, maybe opening that incremental capacity that, you  
22 know, they claim needed to be replaced by them, maybe the  
23 market could've done that. So this is what we live with.  
24 And it's an ongoing reality.

25 Need should be defined in the resource planning

1 and should be a function of fair competition to figure out  
2 what can be replaced most efficiently. Clearly, PURPA has a  
3 role in that. And we often find the utilities arguing  
4 against each other -- against arguments that they've made  
5 previously in other dockets. It's revealing.

6 MR. GLASS: I need to slightly divert the  
7 question of need to what the QF community needs. We need  
8 the Commission involved. We need guidance on how to -- the  
9 situation is a mess right now and it's getting worse with  
10 the divergence of fifty states doing fifty different things  
11 and all of the utilities.

12 We need your involvement. We need your  
13 guidance. We need you to be a forum to sort this out and to  
14 follow through with the statutory authority that you have.

15 MS. SIMON: Any closing comments from  
16 Commissioners?

17 COMMISSIONER LAFLEUR: No. Thank you very much.

18 COMMISSIONER CLARK: Okay, so this -- I'm hoping  
19 this is a really quick question. I'm going to get back to  
20 Todd's admonition, to always go back to the statute. I'm  
21 going to make a shocking admission that I don't sit up at  
22 night memorizing PURPA.

23 So, on this question of "how much is too much"  
24 and do we just reach a point where, for whatever reason,  
25 where it's interconnecting with the grid and the



1 intermittency and the nature of it, there's some sort of  
2 problem that occurs. Doesn't the text of the statute itself  
3 allow for some off-ramps to take into consideration some of  
4 those things by an appropriate agency and if it does, is  
5 there a reason that it's not being utilized? Or -- I'm just  
6 curious if there is some sort of ability to get to that  
7 issue in the statute if we end up with those issues, either  
8 the state or federal level?

9           MR. GLASS: No, it doesn't. The two things that  
10 are in the statute are the rebuttable presumption and the  
11 doing away, which was added in EPACT 2005, and the avoided  
12 cost calculation, which is this afternoon's conversation,  
13 but that's where it's supposed to be addressed.

14           MS. SIMON: One of our goals was to have a very  
15 diverse panel, both in terms of industry representation,  
16 technology representation and geographic representation. I  
17 really want to thank all of our panelists for providing that  
18 today. I think we heard a good discussion of a broad  
19 breadth of issues, so thank you very much for being here.  
20 And we will convene again at 1:00. Thank you.

21           (Whereupon the Conference recessed for lunch to  
22 reconvene at 1:00 p.m., this same day)

23

24

25   A F T E R N O O N   S E S S I O N

1                   MR. GREENFIELD: I think we're  
2 ready to get the Conference back under way again. Welcome  
3 back from lunch. I think we're ready to dive into the issue  
4 of avoided cost.

5                   We touched upon, not surprisingly this morning  
6 --a very lively suggestion, or I should say, a very lively  
7 panel this morning and being advised to speak into the mike  
8 reminds me that what we heard back from our television  
9 viewing audience was that it's important that everybody  
10 speak into the mike, and particularly when you're speaking  
11 to one of the Commissioners in response to their questions,  
12 do try to speak into the microphone so the television  
13 viewing audience can hear what you're saying, because  
14 otherwise they'll drop off and our Nielsen ratings will not  
15 be as high, and the government won't be getting the  
16 advertising revenues they would like from this television  
17 show. So with that in mind, let us get underway, and let's  
18 start with Mr. Brogan on my right.

19                  MR. BROGAN: Good afternoon, Chairman,  
20 Commissioners and staff. I'm Al Brogan, Corporate Counsel  
21 for Northwestern Energy. I'm participating today on behalf  
22 of the Edison Electric Institute.

23                  I'd like to thank the Commission for providing a  
24 forum to discuss issues associated with PURPA, as well as  
25 possible changes to the Commission's rules implementing it.

1           In response to FERC's notice, EEI proposed  
2 specific changes to existing rules that show up in redlines  
3 to those rules in our pre-filed comments. My written  
4 statement proposes some changes to 18 CFR, Section 292.304  
5 and explains why these changes are needed.

6           Stepping back a little bit, PURPA rests on two  
7 pillars, nondiscrimination towards qualifying facilities, or  
8 QFs, and consumer indifference. PURPA limits the amount  
9 that an electric utility pays the QF to no more than its  
10 avoided cost.

11           FERC's rules require an electric utility pay QF  
12 no less than its avoided cost. This all sounds simple, but  
13 the devil is in the details. As reflected in the panelist  
14 written comments, and I think as reflected in some of the  
15 discussion this morning, determining an appropriate avoided  
16 cost rate is become increasingly controversial since the  
17 inception of PURPA.

18           In its rules, particularly 292.304(e), FERC  
19 identified factors that should be considered in determining  
20 avoided cost. However, the various methods that the states  
21 routinely use to determine avoided cost fail to reflect  
22 these factors and the dynamic market conditions.

23           Often, this failure forces utilities to enter  
24 into long-term contracts at fixed prices that are  
25 substantially above market. Our customers pay the price for

1 these failures. We believe that the additional language in  
2 FERC's rules and additional guidance from FERC will promote  
3 consumer indifference.

4 By way of illustration, I'd like to specifically  
5 discuss one of the proposed changes. That is, of particular  
6 importance to Northwestern Energy. We propose to add a new  
7 section to 304(e) to clearly permit states to consider the  
8 cost of transmission system upgrades or the cost of network  
9 integration transmission services in the rate paid in the QF  
10 contract.

11 FERC's declaratory orders, particularly its  
12 pioneer wind order, appeared to specifically authorize  
13 consideration of these factors; however, QFs assert the  
14 consideration of them is not permitted or appropriate.  
15 Recently in dockets before the South Dakota Public Utility  
16 Commission and the Montana Public Service Commission,  
17 Northwestern Energy has advocated that avoided cost rates  
18 should be reduced by any other cost that the public utility  
19 incurs which, but for the purchase from the qualifying  
20 facility, the public utility would not incur.

21 QFs and other special interest groups have  
22 asserted that such a reduction is inappropriate, violates  
23 PURPA, is discriminatory and violates provisions of  
24 Northwestern's open access transmission tariffs.

25 When these additional costs that are imposed by

1 a QF are not considered, Northwestern's customers pay costs  
2 that they would not pay otherwise. You, through your rules  
3 and your guidance, can provide clarity to the State  
4 Commissions on how to consider those things. Again, thank  
5 you for the opportunity to participate and based on the  
6 lively discussion this morning, I look forward to an equally  
7 lively one this afternoon.

8 MR. GREENFIELD: Mr. Burleson?

9 MR. BURLESON: Thank you. Good afternoon. I'm  
10 Jeff Burleson, Vice-President of System Planning at Southern  
11 Company. I've got responsibility for leading the support of  
12 our retail operating companies, generation planning,  
13 transmission planning and generation procurement. And I  
14 want to thank FERC and the Commissioners and staff, as well,  
15 for the opportunity to speak on this panel regarding the  
16 important issue of avoided cost calculations under PURPA.

17 Southern Company owns four vertically integrated  
18 electric utilities operating in the states of Alabama,  
19 Georgia, Florida and Mississippi. And it also owns a  
20 competitive wholesale generation business. Our retail  
21 companies serve about four and a half million customers and  
22 have a 120,000 square mile service territory in those four  
23 states.

24 Our business processes within the company put  
25 the focus on the customer in making sure that we're doing

1 the things that are in the best interest of our customers.  
2 And what that really boils down to is ensuring that we're  
3 providing a reliable and affordable supply of energy for  
4 those customers.

5           Our IRP processes within our states essentially  
6 rely on a combination of owned generation, as well as  
7 competitively procured bilateral wholesale contracts. We  
8 require firm physical transmission delivery service for  
9 generation capacity that's serving our native load. We  
10 require either firm fuel transportation or some sort of  
11 onsite fuel storage, again, to support the reliable delivery  
12 of energy at affordable prices for our customers.

13           In some cases, QFs enter into capacity contracts  
14 with the company as well, and when they do, we incorporate  
15 that into our IRP planning processes. We also incorporate  
16 that into our system operations. In terms of the four  
17 states in which we operate, the avoided cost calculation  
18 processes are well-established and they are indeed  
19 consistent with PURPA.

20           We've got a wide array of options available for  
21 qualifying facilities to choose from, that include, from an  
22 energy cost standpoint all the way from hourly energy to  
23 annual energy projections, as well as long-term multi-year  
24 energy projections.

25           However, QF contracts that are based on any sort

1 of long-term projections of avoided energy cost, do place  
2 economic risks on customers in the event that those  
3 long-term avoided cost projections turn out to be higher  
4 than actual avoided costs that are incurred. And therefore,  
5 Southern Company recommends eliminating the QF's option to  
6 select an avoided energy cost payment that is based on those  
7 long-term multi-year projections of avoided energy costs.

8           We don't give independent power producers who  
9 are selling to us capacity under long-term bilateral  
10 dispatchable contracts, the ability to lock-in an energy  
11 price. In fact, those independent power producers are  
12 dispatchable until we can turn them on and off with the  
13 energy price that they have bid in to an RFP, whereas with  
14 the QF, the energy price is fixed and we must take it in all  
15 hours, regardless of whether it's economic for our  
16 customers.

17           So, really, QFs should be situated no better nor  
18 any worse than any of the independent power contracts that  
19 we enter into. In conclusion, I just say that our state  
20 processes are working within Southern, but elimination of  
21 this provision that requires locking in long-term  
22 projections of avoided cost, would in fact, provide  
23 significant improvements to those processes, and I would  
24 encourage the Commission and the staff to continue to have  
25 dialogue with utilities and State Commissions, just to

1 ensure that if any changes are made, that it doesn't result  
2 in any sort of unintended consequences. Thank you for the  
3 opportunity to participate.

4 MR. GREENFIELD: Mr. Foley.

5 MR. FOLEY: Thank you. My name is Todd Foley.  
6 I'm the Senior Vice-President for Policy and Government  
7 Relations with the American Council on Renewable Energy.  
8 We're a business organization representing the full breadth  
9 of the renewable energy sector, all the green technologies,  
10 manufacturers, developers, financiers and users and others,  
11 including a number of utilities.

12 I'm pleased to be with you here today to talk  
13 about PURPA. I think the timeliness of this meeting is very  
14 important as our nation's power markets and traditional way  
15 of delivering power undergo significant change. As our  
16 nation's generation mix, PURPA remains a very important  
17 policy tool that can assist in the development of a more  
18 flexible and efficient power generation and grid system to  
19 ensure reliable, resilient and affordable power with reduced  
20 emissions now and in the future.

21 PURPA, of course, has played an important role  
22 in helping levelize the regulatory playing field and provide  
23 access to the market for renewable energy power resources.  
24 Renewable energy is low-cost, high-value power. In the case  
25 of solar, it's peaking. This is talking about harnessing



1 domestic resources, renewable energy offers locational, T&D  
2 deferral benefits, as well as very important emissions  
3 reductions. We can have affordable -- in fact, cost  
4 advantage renewable power while we reduce emissions.

5           The avoided cost is all about limiting costs,  
6 protecting the rate-payer. These methodologies have been  
7 very important. But I think they need to be updated. With  
8 the advent of new technology, including the increasing cost  
9 competitiveness of renewables, and also other technologies  
10 and processes that enable more flexible modern and cleaner  
11 grid, it's very important, I think, that we look to see  
12 about updating the avoided cost.

13           Guidance from FERC, as well as what the states  
14 do. The states are given broad authority in determining  
15 avoided cost. But if we can capture the full value and  
16 engage in process to capture the full value of these  
17 technologies, like demand response, storage, advanced  
18 metering, bidirectional communications flows, the lower-cost  
19 renewable energy, we can help stimulate private sector  
20 development and investment, of these technologies, which  
21 enable a much more reliable, affordable and again, cleaner  
22 grid as we go forward into the future.

23           I'd also note that we talked a bit about  
24 capacity markets and other values. All of these  
25 technologies can do much more to ensure we have the capacity

1 at avoided cost and lower rates. We have the ramping  
2 capability, the frequency of regulation and the other key  
3 elements of a functioning grid for the future.

4           There have been a number of important decisions  
5 here at the FERC that has enabled the emergency renewables  
6 and actually provide some additional opportunity to help to  
7 deploy some of these other technologies.

8           I would note that California Public Utilities  
9 Commission decision of 2010, where FERC acknowledged that,  
10 in pursuit of state policy, states could also modify their  
11 avoided costs to compare technology to technology, let's say,  
12 wind to wind, solar to solar in advancing. I think these  
13 are important precedents, potentially for other technologies  
14 and resources that can also help to achieve our grid and  
15 power market objectives going into the future.

16           So just in closing, PURPA has been a very  
17 important tool to advance renewable energy, continues to be  
18 important and I think it's also very important again, help  
19 us update and produce the modern grid that we all need for  
20 going forward for the future. So, I'll stop there and we  
21 look forward to discussion questions. Thank you.

22           MR. GREENFIELD: Just take a moment, Mr. Hughes.  
23 I neglected at the very beginning to note that we do have  
24 several of our Commissioners here, including our Chairman,  
25 and I did want to give them an opportunity this afternoon,

1 if they had any introductory remarks that they wanted to  
2 make before we got too far along in this particular panel.  
3 Chairman Bay?

4 CHAIRMAN BAY: I don't have any.

5 COMMISSIONER LAFLEUR: I already gave my  
6 introduction this morning. I voted with my feet to come  
7 back for more.

8 COMMISSIONER HONORABLE: Thank you, Larry. If  
9 you don't mind, I will wait until after the panel has  
10 complete their remarks. Thank you.

11 MR. GREENFIELD: In that case, Mr. Hughes, the  
12 floor is yours.

13 MR. HUGHES: Thank you. I'm John Hughes. I'm  
14 President and CEO of the Electricity Consumers Resource  
15 Council, also known as ELCON, and I appreciate the  
16 opportunity afforded our organization today.

17 PURPA Title II is extremely important to the  
18 U.S. manufacturing community. It supports the economic  
19 viability of the following: Steam-driven industrial  
20 sectors, Agricultural products, Building materials,  
21 Chemicals, Food processing, Glass, Mining, Oil and Natural  
22 gas, Paper and forest products, Pharmaceuticals, Rubber,  
23 Steel and Textiles.

24 It's a huge swath of the manufacturing  
25 capability of the United States. My comments will address

1 ELCON's assessment of how PURPA is working today, our  
2 thoughts on avoided cost methodologies, and several  
3 recommendations for the Commission's consideration going  
4 forward.

5           There's no question that PURPA works and the  
6 Commission should resist changes to its regulations  
7 implemented the in 1978 Act that amount to the repeal of the  
8 Act. Our concern is that attempts to limit regulatory  
9 arbitrage, and I use that term rather than gaming,  
10 associated with avoided cost payments may result in other  
11 reforms, imposing collateral damage to the huge existing  
12 fleet of industrial QFs with a proven track record as highly  
13 efficient, reliable and clean energy resources, over 60  
14 gigawatts of combined heat and power, or cogeneration, as I  
15 prefer to call it, was developed in the U.S. since PURPA's  
16 enactment.

17           The vast majority of it is industrial QFs and  
18 industrial cogeneration is a technology that other people  
19 have spoken earlier, is embedded in the industrial process,  
20 is part of the load. The mandatory purchase obligation,  
21 where applicable, and supplementary backup and standby power  
22 services had just and reasonable rates, are even more  
23 important today than when PURPA was enacted. Industrial QFs  
24 are impossible without these essential services.

25           If the claims of QFs are locking in buy-back

1 rates that exceed avoided cost and that the capacity from  
2 these resources are not otherwise needed or true, then it  
3 reflects a failure of state regulators to properly implement  
4 PURPA, not a failure of the law itself.

5           As PURPA has explained, "In order to maximum the  
6 incentives for QFs, the Commission sets the price per  
7 purchases from QFs, absent negotiations at a statutory  
8 ceiling. Thus, the avoided cost rate is neither more nor  
9 less than the price the utility would have paid for  
10 comparable power from other sources, including other  
11 wholesale sources."

12           The entitlement of QFs under PURPA and FERC  
13 regulations to payment of rates based on the utilities' full  
14 avoided cost, and not a lesser rate, unless the utility and  
15 utility mutually agree, was upheld by the United States  
16 Supreme Court and the American Paper Institute Supreme Court  
17 case.

18           States can obviously do a better job with  
19 avoided cost calculations. This is not rocket science.  
20 Uncertainties abound in everything the utility does,  
21 including new additions to their rate base, or the setting  
22 of customer rates. PURPA and the FERC regulations already  
23 prohibits states from using avoided costs as a policy tool  
24 to discourage economically viable resources with rates that  
25 are below avoided cost or to encourage or subsidize

1 uneconomic resources with rates that exceed avoided cost.

2           It is time to enforce, not change PURPA's and  
3 FERC's regulations. ELCON members are also increasingly  
4 diversifying their deployment of distributed energy  
5 resources that are qualifying small power producers at  
6 capacity ratings below 20 megawatts.

7           These resources typically are biomass, waste or  
8 other forms of renewable energy, and should qualify under  
9 Order 688 rebuttable presumption that it does not have  
10 discriminatory access to wholesale markets and is eligible  
11 to require the electric utility to purchase it.

12           In conclusion, I want to recommend the  
13 Commission to consider the following three recommendations.  
14 And they have nothing to do with the main issues that were  
15 discussed in the first panel. And so we're sort of silent  
16 on that.

17           First, the Commission should issue a Policy  
18 Statement reaffirming its support for PURPA. Specifically,  
19 the Commission should reaffirm the original intent of the  
20 Act to promote cogeneration and certain small power  
21 renewable producers.

22           The Policy Statement would help the Commission  
23 rationalize its policies and regulations, implementing  
24 PURPA, in the face of the dramatic changes that are taking  
25 place in the industry right now, including when and if the

1 Queen Power Plant is implemented.

2           Second, the Commission should direct its capable  
3 staff to prepare a guidance document on the applicability of  
4 the various avoided cost methodology. The audience for this  
5 document would be State Commissions and utilities.

6           We do not believe that there is one best method  
7 and it is important that states be given maximum flexibility  
8 to fulfill their statutory responsibilities under Title II.  
9 Staff guidance would include as an assessment of the pros  
10 and cons of each methodology, best practices and options for  
11 addressing the price anomalies that exist in wholesale  
12 markets created by federal subsidies.

13           Third, the Commission needs to acknowledge that  
14 its implementation of Section 210(m) is flawed and at least  
15 in part responsible for the huge drop-off in new  
16 cogeneration development beginning in 2005, the year Section  
17 210(m) was enacted.

18           The Commission is urged to require its  
19 jurisdictional ISOs and RTOs to offer a standard QF tariff  
20 that a QF may use optionally to more easily access the  
21 bewildering arrays of energy and capacity services that are  
22 available in the organized markets.

23           I fear that otherwise you're going to relegate  
24 to some poor schmuck at a factory that has the  
25 responsibility of selling this power to become the PhD in

1 operations research, so that he understands what virtual  
2 bidding and long-term FDRs are.

3 In open access states, this might include the  
4 procurement of supplemental backup and maintenance power and  
5 providing a self-supply capability and with the surplus  
6 power from one site can be used to offset purchases off the  
7 grid at another site of the same company.

8 Given the short-term nature of organized  
9 markets, the tariff cannot offer published fixed rates or  
10 these services. The tariff could be structured to  
11 accommodate both "as available" power and transactions that  
12 can be scheduled in advance. The intent is to provide the  
13 QF with a more user-friendly interface with these markets  
14 forcing QFs to be experts on the market design, violation of  
15 spirit, if not the outright intent of PURPA, to promote  
16 clean and efficient technology. Thank you for your  
17 attention, and I look forward to the discussion.

18 MR. GREENFIELD: Commissioner Kavulla?

19 COMMISSIONER KAVULLA: Thank you very much for  
20 having me. I'm Travis Kavulla. I'm the President of the  
21 National Association of Regulatory Utility Commissioners, as  
22 well as the Vice-Chairman of the Montana Public Service  
23 Commission. I guess I can add another hat to that. I'm a  
24 member of the California ISO's EIM Transitional Committee  
25 for the next two days. Before the EIM Board is actually



1 seated and I, along with a number of other Commissioners in  
2 the West, have expressed great interest in creating more  
3 efficient and robust wholesale markets for generation.

4 Thank you for having a number of state  
5 representatives here today as the federal judiciary has  
6 often affirmed, its states that play the primary role in  
7 calculating avoided costs rates. And so if it's done well  
8 or poorly or not at all, it is our fault, or to our credit  
9 that we do those things. I think all roads, to some degree,  
10 lead back to the accurate calculation of avoided costs,  
11 which is a very hard thing to do.

12 And that's why flexibility in your  
13 administrative regulations implementing PURPA and your  
14 direction to the states, is an essential element of the  
15 regulations as they exist today and something we hope to  
16 persist over time. There may be changes that need to be  
17 made with respect to the mandatory purchase obligation, but  
18 in general, the flexibility conferred in the calculation of  
19 avoided costs regulations is satisfactory to most states.

20 Most states attempt to mirror their avoided  
21 costs calculation methodology to how other generators in the  
22 marketplace are compensated, and in general, there are three  
23 marketplaces through which generators earn revenue in the  
24 United States. There are those regions where it is expected  
25 that the centrally clearing markets of an RTO or ISO provide

1 a sufficient number of products to create a revenue stream  
2 sufficient for generators to be compensated for their entry  
3 and operations in the market.

4           There are those places which have centrally  
5 clearing markets, but really operate more as an optimizing  
6 function, an overlay, if you will, to long-term procurement  
7 through contracts or utility self-billed, and where cost of  
8 service regulation is still the predominant model and  
9 generation is included in rate base of regulated utilities  
10 by State Utility Commissions and finally, there are those  
11 utilities that own or contract for the vast majority of  
12 their customer needs outside of an RTO or ISO, but on  
13 bilaterally transacting wholesale markets for the disposal  
14 of their excess energy or purchase of energy deficits.

15           The avoided costs calculations with respect to  
16 PURPA, for states, are generally a mirror image of how those  
17 larger, more dominant generators in any given market, are  
18 compensated. And so I think most states in the first type  
19 of marketplace would simply say, "Why don't you just take  
20 the clearing price, whatever it happens to be," as other  
21 generators would. If there's a problem with transactive  
22 frictions, like Mr. Hughes pointed out, there's surely a way  
23 to unlock those transactions, even while not getting away  
24 from the price discovery that happens in the marketplace,  
25 rather than in an administratively determined avoided cost.

1           But with respect to latter example and in the  
2 Western interconnection, in particular, it's typical for  
3 regulated utilities to rate-base their generating assets  
4 with rates established to permit the capital investment in  
5 those plants to be returned through depreciation expense an  
6 annual return on the undepreciated balance of investment and  
7 operating costs.

8           These rates provide a long-term revenue  
9 guarantee, or something close to it, to the utility,  
10 irrespective of whether their plant in the long run, will  
11 have been an above-market or below-market investment.

12           Utilities instead rely on a central planning  
13 exercise, typically known as integrated resource planning,  
14 or IRP, to make a judgment at the outset. Relative to a  
15 long-term market forecast and a survey of available  
16 alternatives that the investment is efficient compared to  
17 those alternatives.

18           Regulators have been -- IRPs conferring a signal  
19 for the likelihood of cost recovery or pre-approved new  
20 plants directly or grant them rate-base status shortly after  
21 their construction. Most state regulators in the Western  
22 interconnection have thus traditionally offered QFs a  
23 similar opportunity for long-term contracts with avoided  
24 costs calculated at the time of a legally enforceable  
25 obligation or at the time of the first delivery of energy

1 and capacity onto the grid.

2           Nearly two decades ago, NARUC resolved that  
3 PURPA's mandatory purchase obligations and long-term avoided  
4 cost rates that are administratively set, should not exist  
5 "in any state which is made a finding that the acquisition  
6 of generating capacity is subject to competition or other  
7 acquisition procedures, such that the public interest is  
8 protected with respect to price, service, reliability and  
9 diversity of resources."

10           In the meantime many, many markets have not only  
11 had huge growth in renewables, but they have also had more  
12 competitors in the generation space, even while requiring  
13 less new plant to meet anticipated load growth and existing  
14 plant retirements.

15           In light of this, FERC could adopt interpreting  
16 regulations that either effectively relax the mandatory  
17 purchase obligation or make it clear that shorter term  
18 avoided costs calculations are acceptable for PURPA  
19 compliance in certain circumstances which are indicative  
20 either of an absence of need for new plant, or evidence of  
21 sufficiently robust competition and wholesale generation.

22           And I offer three examples here and in my  
23 written comments. One, where solicitations are routinely  
24 held and genuinely competitive for the needs identified in  
25 the utilities' IRP, where utility in its IRP does not

1 forecast the need for an additional owned or long-term  
2 contracted energy resource for a period of time, such as  
3 five or seven years, or where a centrally clearing energy  
4 market is operational and importantly, where clearing prices  
5 and/or bids in that market are not subject to market power  
6 mitigation of cost. Thank you.

7 MR. GREENFIELD: Commissioner Raper.

8 COMMISSIONER RAPER: Thank you, Chairman,  
9 Commissioners and Commission staff. I appreciate the  
10 opportunity to speak. My name is Kristine Raper. I am a  
11 Commissioner with the Idaho Public Utilities Commission. I  
12 know who is friend or foe by whether they call me Kris or  
13 Kristine.

14 Let me begin by saying some things that might  
15 surprise you, based on other assertions made by parties here  
16 today at this Technical Hearing. Idaho does not believe  
17 that PURPA is obsolete. We're also not asserting that PURPA  
18 is wrong. We just believe it's being abused.

19 So State Commissions need the tools to be able  
20 to deter the abuse of the written law in the FERC  
21 regulations. We have many small, mostly run-of-river hydro,  
22 PURPA QFs and projects that we believe are precisely the  
23 type of projects that Congress envisioned when they wrote  
24 the law.

25 What I would wager Congress did not intend was

1 large corporations and renewable parts manufacturers and, in  
2 at least one Idaho contract, Italy to get rich at the  
3 expense of rate-payers. We've tracked one contract back to  
4 Italy being the ultimate owner of the resource. As you well  
5 know, avoided costs are calculated numerous ways across the  
6 U.S., and I would encourage this Commission to continue to  
7 allow discretion to the states in calculation of avoided  
8 costs.

9           While there have been assertions to the  
10 contrary, it is our position, it has been our experience  
11 that, regardless of how avoided costs are calculated,  
12 long-term contracts inevitably work to the detriment of  
13 rate-payers. In Order 69, this Commission recognized that  
14 avoided costs calculated when parties enter into a PURPA  
15 contract, could result in future avoided costs, during the  
16 term of the contract, being greater than actual avoided  
17 costs at the time of the delivery. And the Commission  
18 actually acknowledged that in those cases the rate-payers  
19 would be subsidizing the QF industry.

20           Now, this Commission reasoned that over the  
21 long-term, that the high-priced contracts and low-priced  
22 contracts would equal out, but that has not been Idaho's  
23 experience. No matter the starting point, allowing QFs to  
24 fix their avoided cost rates for long terms results in rates  
25 which will eventually exceed and overestimate avoided cost

1 rates into the future. The longer the term, the greater the  
2 disparity.

3           So, as you heard at length this morning, the  
4 Idaho PUC recently reduced PURPA contract lengths to two  
5 years in order to correct the disparity. We didn't reduce  
6 contract lengths to kill PURPA. We did it to allow periodic  
7 adjustment of avoided cost rates.

8           And in all other ways, these contracts are  
9 functionally equivalent to the 20-year contracts that those  
10 QFs had prior to. They become part of the resource stack  
11 once they begin generating energy. They establish their  
12 entitlement to capacity. They can renew indefinitely  
13 because of the mandatory purchase obligation.

14           The only thing that this changes is the avoided  
15 cost rate so that at incremental opportunities, it can be  
16 corrected to actually reflect the avoided costs that the  
17 utility is incurring by accepting the QF resource. And this  
18 is so that rate-payers are not harmed.

19           I appreciated Commissioner Clark's reference  
20 earlier. I think it was something about our pure interest  
21 at the Commission. If I'm wrong, don't correct me on that.  
22 I like the pure interest and the whole white hat approach.  
23 So my halo might be glowing.

24           We at the State Commissions do not have enough  
25 tools in the toolbox. An ideal solution for our situation

1 would've been to allow 20-year contracts with periodic  
2 updates in that avoided cost rate. Our interpretation of  
3 FERC regulations is that when a QF opts to elect an avoided  
4 cost rate at the time that they enter into the contract,  
5 that that is the constant avoided cost rate throughout the  
6 life of the contract.

7           If it's different than that, if FERC believes  
8 differently, then that's something that the Idaho Commission  
9 would consider in looking at contract length. But it truly  
10 was our intent to simply have an accurate reflection going  
11 forward of the avoided cost rate to the utility to be paid  
12 to the QFs.

13           PURPA does not have to become a dirty word  
14 heralded only by clean energy advocates. But the State  
15 Commissions need this Commission to allow the states'  
16 discretion based on local circumstances to effectively and  
17 reliably manage the grid, implement PURPA and ensure that  
18 rate-payers are not harmed. Thank you.

19           MR. GREENFIELD: Mr. Rose.

20           MR. ROSE: Thank you very much for having me  
21 here today to talk about this important issue. Some of the  
22 points have already been taken, but I'll just outline some  
23 of the things that I have in my written remarks.

24           In my view, PURPA has held up reasonably well  
25 over the years and it's hard for me to believe that almost



1 forty years later, we're still working on implementation of  
2 PURPA. I think in some ways it's been adapted as times have  
3 changed over that thirty-eight-year period where the  
4 Commission has adapted, the Congress has changed the rules,  
5 and of course, the states have adapted and changed the rules  
6 as they've gone along, so --

7 PURPA provided kind of a general outline that I  
8 think still works today. And so I think overall it works  
9 pretty good. So, primarily one of the goals of PURPA, I  
10 think is still relevant today, which is really preventing  
11 utilities from refusing to interconnect with and fairly  
12 compensate small power generators. They use renewable  
13 energy and cogenerators, or CHP, that want to sell power to  
14 the utilities. I think that's still a relevant factor  
15 today, even though technology has maybe caught up with some  
16 of this.

17 In this panel, in particular, what is designed  
18 to talk about the methods of calculating avoided cost, and I  
19 don't think there's really any significant changes that this  
20 Commission really has to do. The Commission has already  
21 prescribed guidelines for states and nonregulated utilities  
22 to follow, which are appropriate in my view.

23 And they haven't really specified, and shouldn't  
24 in my view, methodologies that calculate avoided costs. I  
25 think that's a little bit too far down in the weeds for this

1 Commission to be involved in and is generally a state issue.

2           The Commission rules provide definitions of  
3 avoided costs, what avoided costs are in a general way.  
4 They require data to be available to calculate avoided  
5 costs. They define the obligation to purchase, identify  
6 factors to be considered when calculating the avoided cost.  
7 And I think those are all appropriate still today.

8           The Commission hasn't prescribed a cost  
9 methodology, so I don't believe that they should start now  
10 or it's required. This Commission has generally left to the  
11 states and not regulated utilities to determine that avoided  
12 cost pricing, and I feel compelled to quote Justice  
13 Brandeis, the famous quote about, state as laboratories,  
14 because if you look across the states, they all have dealt  
15 with PURPA in different ways over the years, and I think  
16 that is a good thing.

17           They learn from each other. They follow what  
18 other states are doing and adapt to the changes, and I think  
19 will continue to do that even when there's problems in the  
20 implementation. Generally, the states are the ones that are  
21 going to fix it from their perspective.

22           In 2006 the Commission, of course, implemented  
23 the changes under the Energy Policy Act of 2005 and the  
24 Commission allowed determination of the Utilities Obligation  
25 to Purchase Power from a Qualifying Facility, recognizing of

1 course the changes that have been underway in those  
2 so-called organized markets, particularly ISO/RTO markets.

3           There was a lot of discussion this morning, of  
4 course, about the exception to that for the rebuttable  
5 presumption that qualified facilities with capacity at or  
6 below 20 megawatts do not have nondiscriminatory access to  
7 eligible wholesale markets. And I would argue that the  
8 Commission, if you decide to revisit your PURPA rules, that  
9 you maintain that and keep that 20-megawatt rule.

10           I was listening to the argument, I know it was  
11 talked about this morning, but I think it convinced me  
12 further that probably just keeping it where it's at would  
13 probably be the best thing for right now.

14           If I could just add one thing that I don't think  
15 was talked about too much this morning was, in working with  
16 relatively small QFs it's pretty clear they're really not --  
17 and I think John Hughes was saying this, too -- it's really  
18 difficult for them to deal with these RTO/ISO markets that  
19 have gotten very complex over the years and in fact, have  
20 only gotten more complex.

21           And we're talking about some QFs that are only 1  
22 or 2 megawatts, they're very small, but even up to and  
23 certainly less than 20 megawatts, you're talking about a lot  
24 of expense and experience that's needed in order to deal  
25 with the market, that the utilities have to deal with

1 themselves.

2           In fact, when I first heard about this  
3 difficulty was from relatively small utilities that have to  
4 hire new people in order to be able to operate in these  
5 markets. A QF that is in a different business maybe than  
6 just selling power, this is going to be more of a burden for  
7 them. And again, I expect that those markets will only  
8 become more complex over time.

9           That's probably maybe the subject of a separate  
10 Commission Technical Conference, just talking about the  
11 market complexity. So there's nothing -- if I can echo Mr.  
12 Brogan's comment -- there's nothing in the Commission's  
13 regulation that requires any utility to pay more than the  
14 avoided cost. And I would argue that not only shouldn't you  
15 not do that, but I don't think you can. That would be a  
16 clear violation of PURPA.

17           So we're only talking about trying to use the  
18 avoided cost methods to come up with a fair evaluation of  
19 what is the avoided cost of the utility. And I think you  
20 have to guard against utilities trying to now use the  
21 current market conditions to evade the responsibility under  
22 the law. So it's really a balancing act to make sure that  
23 they're fairly compensated, reflecting the utilities'  
24 avoided cost, but at the same time, you're not  
25 overcompensating, I mean causing problems for rate-payers

1 down the line.

2           So I think PURPA requires State Commissions and  
3 nonregulated utilities to comply with the Commission's  
4 rules. That's there now, but I would urge you to keep that  
5 backstop authority that FERC now has when there's kind of a  
6 dispute within the state. And I think that should maintain  
7 that role and maybe even try to clarify that if there is a  
8 revisit on the rules. Thank you.

9           MR. GREENFIELD: Mr. Sipe.

10           MR. SIPE: Thank you. My name is Don Sipe,  
11 and I'm here representing the American Forest & Paper  
12 Association. I think Mr. Bloom covered this morning the  
13 distinction between CHP and the other resources we're  
14 talking about, so I won't get into that on this panel,  
15 although most of the people that I'm here representing,  
16 that's one of their major concerns.

17           I do think though that in any case, getting  
18 avoided costs correct is paramount to protecting  
19 rate-payers, but also to getting the right investment  
20 signals. So I think I want to begin with some general  
21 observations about the role of avoided costs and the context  
22 where they come up that I hopefully will frame sort of my  
23 reactions to some of the other suggestions that have been  
24 out here.

25           There is always risk in any investment. It

1 doesn't matter what the investment is, doesn't matter who  
2 makes it. You're not going to avoid risk in investment.  
3 I've heard people say that we set avoided costs and they're  
4 always wrong. Well, surprise, surprise. Okay?

5           That is the nature of trying to predict the  
6 future. The future responds to your predictions and  
7 everything that you said as a bogey, that's what the market  
8 is setting as a bogey to beat, or someone else is. So it  
9 shouldn't surprise us that we have these mismatches moving  
10 forward.

11           The question is, is it truly avoidable and do  
12 PURPA contracts, in particular, pose any special risk that's  
13 different than the risk if the utility faces is doing  
14 anything else. Now, if they're set properly, and let's just  
15 assume that they can be set properly, these avoided costs  
16 ought to look like the planning assumption.

17           They ought to be looking like what the utility's  
18 using to plan its own investment. How else are they  
19 figuring out what their avoided cost should be?

20           If that's true and they're wrong, then they're  
21 just as wrong for the utility investment that's proposed  
22 instead of the QF investment. It's not like this is a  
23 one-way street. If they've got it wrong, they're doing  
24 their utility planning wrong.

25           And those costs are on a long-term contract.

1 Once utility bills something, they've got a long-term  
2 contract with rate-payers that's going to get them recovery  
3 for that. It's no different than when they sign up with a  
4 QF. So, if they're looking at a full picture of their  
5 needs, they're predicting future energy costs, they're  
6 predicting their future capacity costs, they're predicting  
7 where the market's going to go, and they're making some  
8 assumption.

9           Now, if we're coming in below those assumptions,  
10 we have probably a better chance of being right than they  
11 have working on their own assumptions building their own  
12 plant. Now, I want to move from there, because that's the  
13 simple examples, when the utility's building.

14           But there is this sort of idea that there's a  
15 free lunch per risk if we go to the market. You know, I  
16 find this sort of ironic, coming from New England, where  
17 I've got people going out of business because the market  
18 will not invest in needed infrastructure of various types  
19 that we need to have up there.

20           You know, markets do not relieve consumers of  
21 risk. They repackage it. And the risk premium in the  
22 market reflects the general failure rate. It's true, you  
23 are protected from the risk of loss on a particular project,  
24 but you are not protected from risk if you rely on the  
25 market instead of a long-term projection under a contract.

1           You are getting the general failure rate. And  
2 you are also assuming the risk that things that should get  
3 built just do not get built. And those are fairly  
4 significant risks in various parts of the country.

5           If you have a long-term energy rate that appears  
6 to be above-market or is above-market, you have a visibility  
7 problem more than I think a differential risk problem. The  
8 utility's bad investment is down on its rate base. It's  
9 covered up with the fuel cost and the fact that they're not  
10 running that plant that they thought they were going to run,  
11 but you're still paying the capital costs, is not out there  
12 visible to the world.

13           But if they have planned this right, they  
14 would've planned that plant, based on what they thought they  
15 were going to get for energy and capacity and comparing it  
16 to your project, which means that implicitly there's an  
17 energy price to that plant.

18           If there's not, they're not doing planning  
19 correctly. And they've made a long-term investment based on  
20 that price. If they're wrong, they're wrong for both  
21 projects.

22           Getting avoided costs right, I think is going to  
23 answer a lot of the questions that we've got. And I think  
24 that is important, and especially things like gaming. You  
25 know, from a consumers' point of view -- I was listening to



1 the "one-mile" discussion this morning and somebody said,  
2 "Does anybody want to support gaming?" And I'm thinking,  
3 gaming implies to me that somebody's taking my money. Okay?  
4 It doesn't imply to me that somebody's trying to use the  
5 rules to get me a better deal. That doesn't sound like  
6 gaming to me.

7           So I hear that we've got a "one-mile rule" and  
8 the problem is that somebody's siting a project that's  
9 bigger than what somebody else thinks it should be, based on  
10 that, which I think is a reasonable rule. You know,  
11 one-mile, you've got to put it in the statute somehow.

12           And the big problem is, is that a next project  
13 is lower than the utility's avoided cost. I'm a consumer.  
14 I'm thinking, how is that gaming me? What is it that I'm  
15 being deprived of by having that other project within a  
16 mile? I mean as a consumer, maybe I'll propose a half-mile  
17 rule. Because essentially, what we want to see is, we want  
18 to see the projects built that are the lowest cost, that  
19 have the best chance of working out in the market.

20           Now, you sign a long-term IPP contract. That  
21 contract is got a variable energy cost in it. There's  
22 nothing you can point to when you say, "Oh, gee, that energy  
23 price went up from where we thought it was going to be when  
24 we signed it originally."

25           If we have a problem with declining avoided

1 costs, we ought to figure out a way to work that into the  
2 calculations. We got to figure out a reasonable way to  
3 reflect the fact that we think avoided costs are declining,  
4 and to have rates that reflect that. That doesn't sound --  
5 well, it is rocket science. I mean, predicting the future  
6 is rocket science. I mean, who said it wasn't?

7           This is going to be difficult. But, it's not  
8 just difficult for QFs. Okay? That's the point. It's --  
9 they're making the decision based on the same calculation.  
10 And if they can prove to me that their decision-making is  
11 based on an estimate of defining marginal costs, so they  
12 aren't building this or that on their own, and everybody has  
13 to beat that price, so beat it. We'll beat the price.  
14 Thank you.

15           MR. GREENFIELD: Ms. Whittle.

16           MS. WHITTLE: Good afternoon. Thank you,  
17 Commissioners and staff for calling this Technical  
18 Conference today and for including my group, the New England  
19 Small Hydropower Coalition in the panels. Just to tell a  
20 funny QF story, I may not be the oldest person here, but my  
21 father, who was a retired energy lawyer, worked for the  
22 Federal Power Commission in the '60s, filed QF80-1, which I  
23 think was the first QF and it was a small project in  
24 Massachusetts that I understand is still operating today.

25           I learned by osmosis, I suppose. I also used to

1 watch Commission meetings on his VCR tape when he would  
2 bring them home. Fast forwarding all the time. Don't tell  
3 him I said that.

4           But I'm here today on behalf -- and my name is  
5 Elizabeth Whittle, by the way -- and I'm here today on  
6 behalf of the New England Small Hydro Coalition, and it  
7 consists of the Connecticut Small Power Producers  
8 Association, Bay State Hydropower Association, just  
9 Massachusetts, Granite State Hydropower Association for just  
10 New Hampshire, and the Vermont Independent Power Producers  
11 Association.

12           This group represents more than a 140 small  
13 hydro projects located in the four New England states with a  
14 total installed capacity of 183 megawatts. Almost all of  
15 the projects are 5 megawatts or below. All of the projects  
16 are 20 megawatts or below. They're all QFs and they all  
17 operate under FERC Hydroelectric licenses or exemptions.

18           As a result, these projects have, not only do  
19 they have to participate with utilities, but they also have  
20 stringent terms and conditions of their licenses that  
21 restrict a number of things, including many of them are  
22 run-of-river, which means they can't store energy for  
23 generating during peak periods and that sort of thing.

24           The New England Small Hydropower Coalition  
25 exists because individual small hydropower projects simply

1 don't have the resources to participate in these legislative  
2 and regulatory processes at the state and federal level that  
3 determine how QFs will be regulated and paid. Each of the  
4 organization participates in the local state agency as a  
5 group, and then they've come together to sponsor today.

6           The group appreciates the opportunity to speak  
7 on the importance of the protections of PURPA in today's  
8 environment. Unlike some entities participating in the  
9 Technical Conference today, our group are principally  
10 concerned with PURPA and the Commissions' regulations  
11 implementing PURPA as they apply to existing projects.

12           The vast majority of these facilities were  
13 constructed in the 1980s and early '90s and have operated  
14 under long-term contracts that have recently expired. These  
15 projects have been in existence and operate pursuant to the  
16 terms and conditions of the license, which I mentioned.  
17 Lots of historic operating histories and are very reliable  
18 participating entities in the local regions where they  
19 operate.

20           As I noted before, most of them are required by  
21 their licenses or exemptions to operate in run-of-river  
22 mode, which means water input must closely reflect to water  
23 output. What comes in goes right through. If they're not  
24 generating, water is spilling over the dam.

25           The Hydropower Coalition supports continuation

1 of the mandatory purchase obligation, especially for small  
2 projects without access to competitive wholesale markets.  
3 Without the mandatory purchase obligation, many of the  
4 hydroelectric generators would have no means to sell their  
5 project power. They do not have access to ISO New England,  
6 and even if they did, the costs and related operational  
7 requirements are additional and significant impediments to  
8 their participation.

9           With respect to avoided cost rates, the purpose  
10 of this afternoon's panel, our coalition supports the  
11 continued availability of a calculated avoided cost rate  
12 available to QFs on a long-term basis. As we've all been  
13 talking about today, the energy markets have changed  
14 substantially and in New England, that is absolutely true  
15 with the creation of ISO New England. It's an RTO.

16           Some of the utilities in New England have  
17 divested their generation. Some of the utilities in ISO New  
18 England have not, which creates another complicating factor  
19 for determining avoided cost.

20           Prior to establishment of the RTO markets, we  
21 had the, I think, what we see in the West is a more  
22 structured way to determine what the avoided cost rates are.  
23 But in the RTO states, many of the State Commissions have  
24 determined that the avoided cost rate is the hourly  
25 real-time L&P.

1           While there are many ways to calculate the  
2 avoided costs, the proper avoided cost rate, the hourly  
3 real-time L&P is an inappropriate proxy for avoided cost,  
4 because it doesn't reflect the true avoided cost to the  
5 utility under the Commission's regulations and PURPA.

6           First of all, most purchasing energy in the RTO  
7 markets purchase nearly all of their power in the Day Ahead  
8 Market. At the Day Ahead L&P. L&P rate doesn't take into  
9 account any long-term or seasonal purchases made from third  
10 parties or affiliates.

11           I just wanted to say we have three asks from the  
12 Commission. One is to update the definition of avoided cost  
13 to reflect the utilities' true avoided cost of energy is not  
14 the locational marginal price. We want to reaffirm the  
15 rights of QFs interest to long-term power purchase  
16 agreements at an avoided cost rate established at the time  
17 of the legally enforceable litigation, and more vigorous  
18 enforcement of PURPA. Thank you.

19           MR. GREENFIELD: Mr. Wise.

20           MR. WISE: Thank you, Mr. Chairman and  
21 Commissioners, staff. My name is Michael Wise. I am the  
22 Senior VP of Commercial Operations and Transmission for  
23 Golden Spread Electric Cooperative. I'm responsible for the  
24 forecasting, the resource planning, the market operations,  
25 the regulatory and transmission policy, all of this utility.

1 And I thank the Commission for the opportunity that you've  
2 afforded me to speak today. Appreciate it very much.

3 By way of introduction, Golden Spread is a  
4 nonprofit generation and transmission cooperative. It  
5 supplies wholesale power to its sixteen-member distribution  
6 cooperatives in Texas and the Oklahoma panhandle. We serve  
7 25% of the landmass of Texas, although we probably serve  
8 more cows than we do people, out in that area.

9 Most of our territory is located in Texas, in  
10 both the Southwest Power Pool and the Electric Reliability  
11 Council of Texas. About 80% of our load is in SPP and 20%  
12 in ERCOT. And so my comments, my remarks will be basically  
13 isolated to fully functional Day 2 Market structures that  
14 are operating quite well.

15 This territory that we're in is actually what I  
16 call the Saudi Arabia of wind. Amarillo is the center of  
17 the wind universe and it seems to be that substantial  
18 amounts of renewable energy is actually interconnecting as  
19 we speak and generating superior annual capacity factors.

20 So we are in that sweet spot for solar and for  
21 wind renewable energy. It's largely because of the  
22 prevalent high wind speeds in this optimal photovoltaic  
23 activity that we have out in that neck of the woods and  
24 particular part of the United States.

25 As to avoided cost methodology, Golden Spread

1 agrees with the precedent set in Texas which establishes two  
2 fundamental principles. First that the utilities' avoided  
3 cost for energy is the cost it would otherwise pay for that  
4 energy from the market at the time of delivery. That is,  
5 that the market's real-time locational marginal price.

6           Second, QFs that generate intermittent power,  
7 such as solar and wind, do not provide sufficiently firm  
8 service to allow them to compel a legally enforceable  
9 obligation. This essentially argues really for allowing the  
10 competitive markets and the RTOs anyway to establish the  
11 avoided cost.

12           With this avoided cost factor op, it is the SPP  
13 and ERCOT markets that are best suited to determine the type  
14 and the quantity of resources needed to serve consumers with  
15 what I call optimal economic efficiency. They operate to  
16 pool resources and loads together to meet in response to  
17 market price signals.

18           Since the 2005 PURPA reforms, ERCOT and SPP have  
19 undergone drastic changes as you all know. Specifically,  
20 with the SPP and the leadership of the FERC and pushing and  
21 encouraging RTO functions and the development of the  
22 stakeholders in the SPP, which I was a part of during that  
23 time, very proud to admit that. We took those signals and  
24 we collapsed the sixteen balancing authorities into one  
25 single balancing authority, and also developed a Day 2



1 Market structure. We have a Day Ahead market, a very  
2 functional Day Ahead market, where 99% of the load is  
3 cleared in that market. And a highly effective real-time  
4 balancing market as well.

5           So that market is functioning quite well. In  
6 fact, what happens is unit commitment is no longer at the  
7 individual utility. The world has changed. The individual  
8 IOUs, utilities that we think as the bad guys many times,  
9 they no longer can commit the resources or do commit the  
10 resources. They can self-commit, but it's economically not  
11 justified in many cases.

12           So the unit commitment authority moves up to SPP  
13 at the RTO. And it's in a unit stack basis, and the most  
14 efficient generation actually operates for the good of the  
15 pool.

16           So you've got this situation, we have sixteen  
17 BAs collapsed to one. We have fourteen states now with  
18 52,000 megawatts of peak load, all pooled together, such  
19 that the resources and the loads can come together and find  
20 the economic clearing price for that energy, providing real  
21 benefit to the consumers.

22           In fact, I think we heard from the SPP staff  
23 just recently that the benefit to the consumers in this pool  
24 has been in the order of 420 million dollars on an annual  
25 basis. So this is real savings for consumers, which we're

1 all about. So it's exciting to see what we're doing there.  
2 We think that this really does change the framework of  
3 talking about avoided cost.

4           These are open and integrated systems with  
5 independent market monitors, market price is dictating that  
6 resources are dispatched based upon the economics and  
7 security constrained economic dispatch reliability issues.  
8 Each of these markets have invested several billions of  
9 dollars. In SPP it's ten billion dollars that has been  
10 approved and has been built and is being built and ERCOT's  
11 about seven billion dollars that's largely supporting this  
12 huge set of pools of resources and loads and the concept  
13 that I've just indicated to you.

14           QFs of all sizes now have what we believe is  
15 unfettered access to these markets and can participate in  
16 them along with all the other suppliers on an equal footing.  
17 FERC requirements should be modified to recognize this  
18 reality. Otherwise, the competitive outcome becomes  
19 distorted. The Commission should reduce to a megawatt or  
20 even lower, the 20-megawatt threshold as it applies, to  
21 establish the presumption that QFs have access to the  
22 markets. I know that's not popular to some on this panel.

23           Alternatively, the Commission should reform the  
24 capacity purchase obligation. Capacity is treated  
25 differently in different markets and its value varies

1 greatly by year, and by the type of generation resource.  
2 Forcing a utility to purchase capacity at a fixed price over  
3 a term of several years, from a specific type of resource  
4 imposes significant risk upon the utility and its consumers.

5           At a minimum, the Commission should reduce the  
6 maximum term of the legally enforceable obligation. A term  
7 of one year would recognize that there are short-term  
8 capacity options available in the marketplace right now.  
9 And the longer term planning arrives and is too speculative  
10 to impose longer term fixed price obligation.

11           So in conclusion, the Commission -- hopefully we  
12 keep in mind that PURPA was never meant to be applied in a  
13 manner that harms consumers by forcing inefficient higher  
14 cost outcomes or shifting market risks onto load serving  
15 entities. Thank you.

16           MR. GREENFIELD: My thanks to all of the  
17 panelists and I would like to start with Chairman Bay and  
18 the other Commissioners, and I would again remind the  
19 panelists, when you are responding, make sure you do speak  
20 into the mike, which sitting here I noticed is going to  
21 easier for the people on my right, a little tougher for the  
22 people on my left because of the angle, but do try to speak  
23 into the mikes if at all possible. Thank you. Chairman  
24 Bay?

25           CHAIRMAN BAY: Thank you. So in implementing

1 PURPA, FERC, in my view, was respectful of principles of  
2 cooperative federalism, and so to a large extent with  
3 respect to the calculation of avoided costs, FERC deferred  
4 to the states. And so, to the extent that there's a problem  
5 here with avoided cost and a number of panelists have  
6 indicated that they think there is a problem with the  
7 calculation of avoided cost, is that a problem for FERC or  
8 our regulations or is it really a problem that we should  
9 defer to the states to resolve? So that's really one of the  
10 big questions that I'm trying to grapple with. So I'd  
11 appreciate hearing the views of any panelist on that issue.

12 MR. SIPE: Thank you. I think that FERC is  
13 always going to have to have an important backstop role.  
14 You can defer your authority and try to be cooperative, and  
15 I think someone on an earlier panel said it's a two-way  
16 street. I think that the arrangement of allowing states in  
17 the first instance to set avoided costs, I think is a  
18 reasonable approach.

19 When we looked at the various methods of doing  
20 avoided costs, they all seemed like they could be amenable  
21 to a reasonable result if people took them seriously and  
22 they were using them for their own planning assumptions.  
23 And there's not one way to predict the future that we think  
24 is right, so I think that variability is good. But I think  
25 that you should be open to claims where there are avoided

1 costs calculation or other methods that clearly defeat the  
2 idea of encouraging QFs. And I think that that's sort of  
3 where the line is, and it's a judgment call, and it's  
4 probably incumbent upon individual QFs to bring those to  
5 you, or organizations where they think that happens.

6           So I don't think you can avoid that backstop  
7 role, but I think that a variety of avoided costs, things  
8 that we've seen out there, they all seem like they would be  
9 amenable to a reasonable result if the utility was using  
10 that same way of predicting the future. And if they could  
11 all be fair and be flexible enough.

12           MR. BURLESON: Yes, thank you. Mr. Chairman, I  
13 just wanted to mention that for us, the avoided costs aren't  
14 just the avoided costs that we pay QFs, but we use those  
15 avoided costs for a number of other purposes within the  
16 company. And so I think within our four states, the  
17 calculation, the determination of the avoided cost, we  
18 believe is good.

19           The issue here really is, that I referred to in  
20 my remarks, is really the issue of "do we need to lock in a  
21 long-term projection of those avoided costs?" So it's not  
22 so much the calculation, but it's the requirement that we  
23 either allow QFs to take, as generated, avoided cost when  
24 the energy's delivered, or the projections when a legally  
25 enforceable obligation is entered into.

1           That's really the crux of the issue. And I  
2 think the example that I'll give, if we think about our own  
3 planning, if we have in any way understated our projections  
4 of avoided costs, we use those same avoided costs to study  
5 retirements of co-units, gas units, nuclear units, then we  
6 would retire more than would be most appropriate for our  
7 customers.

8           If we overstate the avoided cost, we would wind  
9 up taking other actions, such as implementing energy  
10 efficiency at levels that would not be cost-effective. So  
11 we use those across all of those spectrums. The issue is,  
12 again, the projections. And the challenge for us is, for  
13 traditional generating resources, we don't have a 100% of  
14 the cost obligation of those resources locked in.

15           So as an example, if we're planning our system  
16 and we're planning combined cycle natural gas generation, of  
17 the total cost of that gas generation, over its life,  
18 probably something like 40% of that is fuel cost in variable  
19 operation and maintenance. And that is avoidable for us,  
20 even after that unit is built. If it's a coal plant, it's a  
21 similar situation there, probably 60% of that total  
22 lifecycle cost is avoidable.

23           But when we lock in long-term projections of  
24 avoided cost for the QFs, none of that is avoidable, because  
25 a QF can put all of that energy on us, and I think that is

1 an issue for this Commission to consider addressing, because  
2 that is one of the requirements today as we either offer  
3 them avoided cost at the time they deliver the energy, or  
4 projections of avoided cost at the time the contract's  
5 entered into.

6           CHAIRMAN BAY: But, Jeff, isn't that the risk  
7 with all longer term contracts? That you're locking into a  
8 certain price? And I think this was Don's point, actually,  
9 so I mean it's possible to imagine a thought experiment,  
10 where if you entered into long-term contract in 2006, prior  
11 to the Shell revolution and let's say it had a price of \$40  
12 per megawatt hour, the Shell revolution hadn't occurred and  
13 wholesale prices were now at \$50 per megawatt hour, I just  
14 wonder how many people, who are complaining about the longer  
15 term nature of these contracts, would be complaining about  
16 them today? I mean, isn't that what happens with respect to  
17 market risk?

18           MR. BURLESON: Yes, there is a risk there with  
19 long-term contracts. I think the way that we mitigate those  
20 risks for our customers is, we typically don't lock in,  
21 except for QFs, those long-term projections of avoided cost.  
22 So if we enter into a bilateral contract with an independent  
23 power producer for combustion turbine or combined cycle  
24 capacity, we don't fix the energy price. The capacity  
25 payment is a fixed payment. That's their fixed revenue

1 strain.

2           The energy price is typically indexed to the  
3 price of natural gas. We can dispatch around that energy  
4 price with other resources for those dispatchable kind of  
5 resources. With QFs, we can't dispatch around it. So it's  
6 100% of that QF contract obligation is borne by our  
7 customers and so that's the differentiation there.

8           MR. HUGHES: I think I'll just repeat what I  
9 said in my opening remarks, that the states clearly need  
10 some better guidance on how to use the methodologies,  
11 including the process by which the methodologies are used,  
12 and how the numbers that fall out of the methodologies are  
13 consistent with what goes on in a retail rate case  
14 proceeding for the allocation of risks and costs to  
15 rate-payers.

16           I think Don mentioned that you put something in  
17 a rate-base, and that's a long-term contract with your  
18 rate-payers, and it's a -- there could be a lot of risk  
19 associated with that. It had nothing to do with the matters  
20 we're discussing here. You know, some utilities recently  
21 have been building nuclear plants that are just grossly  
22 overpriced.

23           Those final costs may not all go under  
24 rate-based, but what will go under rate-based is your  
25 proverbial pig in a python. Others have been building



1 integrated gasification combining cycle plants that are  
2 equally grossly out of align with the market price for  
3 power.

4           And so it seems to me, somewhat disingenuous  
5 that rate-payers shouldn't have the risks of the long-term  
6 contracts associated with the QF capacity and/or energy.  
7 You know, but they bear all the risks associated with the  
8 long-term obligation that their utilities made. You know,  
9 for somebody it's very high-cost, the generation assets.

10           So there's got to be some consistency here in  
11 how that is handled. You can't do one one way and the other  
12 another way and say it's rate-payer's benefit.

13           MR. GREENFIELD: Commissioner Raper.

14           COMMISSIONER RAPER: With regard to your  
15 question about whether correct avoided costs or bad avoided  
16 cost is the state or FERC's problem, I think states need to  
17 determine a good avoided cost. I actually think Idaho has a  
18 really good structure for their avoided cost. We have a  
19 published rate, which is your standard rate that's required  
20 by FERC regulations. We also have an IRP-based rate. The  
21 problem enters in, consistent with what Jeff with Southern  
22 Company said when those things are manipulated.

23           In long-term contracts, the rates that are good  
24 today, the avoided costs that are reflected today, are not  
25 reflective going forward on a long-term basis. And gaming

1 comes into that, too. So we have a 100KW or a 10 average  
2 megawatt threshold for our standard rate contracts. But you  
3 have a 100-megawatt Shell oil come in and break up into five  
4 20-megawatt facilities.

5           They then get this published rate, and Ms.  
6 Chapelle got to it earlier, on the earlier panel. She was  
7 talking about her small facilities, these small facilities  
8 that need the assistance in contracting, in getting things  
9 through, in getting this taken care of. And they can't  
10 afford to jump through the hoops and figure out all of the  
11 details, and I think that FERC recognized that in their  
12 regulations, by setting a 100-kilowatt threshold.

13           But when you have the large builders coming in  
14 and trying to get in under a standard rate, then that  
15 standard rate, which we believe we fairly set for small  
16 facilities, is not an accurate reflection of the avoided  
17 costs that a larger facility ought to be obtaining.

18           So your second issue that was brought up by, I  
19 believe, Mr. Hughes, as far as contracts go, whether it's  
20 the contractor, the QFs contract going forward, when a  
21 utility builds a utility-scale project, they have to prove  
22 to the Commission in their state that that energy is  
23 necessary and used and useful.

24           They have to go through and get a Certificate of  
25 Public Convenience and Necessity in our state. They have to

1 prove that the energy is going to go somewhere and that the  
2 customer needs it and that they need to provide it in order  
3 to provide reliable service.

4           And a QF comes on at 20, 40, 60, 100, 120  
5 megawatts, and they have nothing that they have to prove to  
6 the utility, the customer, the Commission and the state. In  
7 fact, we don't even have the right to look at their books.  
8 So, you know, when you want to compare what the utility is  
9 getting as a return versus how much it cost the QF to build  
10 their facility, and as far as contract length goes, which is  
11 the current argument in our state, how long of a contract  
12 does a QF need in order to be able to finance its project?  
13 The answer is, I have no idea. Because I don't have access  
14 to their books and they don't have to provide them. So, you  
15 know, it's not an apples to apples comparison to the  
16 utility.

17           MR. FOLEY: Thank you. Mr. Chairman, I'd say  
18 that, of course, you know, the system hinges on cooperative  
19 federalism, just as you said. And I think there's an  
20 important role that can provide in providing some guidance,  
21 especially on what's happening in the markets with the  
22 increasing cost dependence and other developments and new  
23 technology that enables more flexibility in our markets.

24           I do think that, when it comes to contracting,  
25 you know, we -- integrated resource planning portfolio

1 management really is key. Mr. Burleson noted that, of  
2 course, that there are fuel costs involved in conventional  
3 procurement, but we just note that with regard to most  
4 renewable energy resources is that, it's not front capital  
5 costs, but there's, you know, virtually no fuel costs in  
6 most cases.

7           So, you know, when you think about, you know,  
8 looking ahead at the future and we've talked about that a  
9 little bit today, that is hard to predict, but there are  
10 some very important metrics and we'd be happy to provide  
11 more of that in our sector to help support very accurate  
12 avoided costs calculations that we can.

13           I think, you know, it is, of course, true as  
14 we're acknowledging here that, you know, utilities and  
15 others are signing long-term contracts and they're taking  
16 the best look they can with the information they've got now.  
17 Just like, again, our personal portfolios make sense to  
18 build in some flexibility on that. Integrated resource  
19 planning is key on that.

20           Last point I would note is that, you know there  
21 are these other elements, too, of this effective management  
22 of this system that I think we need to take a look at so  
23 that in the interest of the cooperative federal and state  
24 approach here that we are really advancing, you know, the  
25 most affordable and effective grid and power system we can.

1                   MR. WISE: To answer to the first question is  
2 yes. We really like the states, as I mentioned in my  
3 comments, Texas, we think really got it right. We think the  
4 states do have a real good view. And they spend a lot of  
5 time on it. So I think that is really good.

6                   The second question you asked, really, we could  
7 spend a whole lot of time talking, thinking about, but let  
8 me and try and inject a different flavor to this a bit. You  
9 know, long-term contracts basically have time-value risk.  
10 Huge time-value risk. And as you get further and further  
11 out, that risk becomes even greater and more substantial and  
12 what some of the QFs want to do is basically transfer all of  
13 that risk, all of that time risk to the consumers, and being  
14 a consumer advocate as we are, we don't think that's really  
15 fair. We don't really like that concept at all.

16                   It removes or reduces the flexibility that we  
17 have as resource planners, or be able to provide for our  
18 consumers at the lowest possible cost over all ranges of  
19 time. And to give you an example of that, our load forecast  
20 dropped from about 3% growth to almost nil over the last two  
21 years with what's going on inside of the SPP and inside of  
22 our area.

23                   And with that in mind, we had a PPA that we  
24 could get out of, and we cancelled it two years early and  
25 saved our consumers 17 million dollars, that they would've

1 otherwise had to pay if they'd been locked into a long-term  
2 contract.

3           So removing this flexibility from us as resource  
4 planners or those of us who have to provide for our members  
5 that, you know, could really substantially take tools out of  
6 our toolbox. In addition, and you remember -- and you were  
7 there two months ago in your home state of New Mexico and  
8 you were at the SPP board -- and we approved some  
9 substantial changes to the SPP market, and one of those was  
10 because we built 10 billion dollars of transmission that we  
11 largely have this pool now.

12           And we determined that we could reduce the  
13 reserve margins, but also we determined that we didn't have  
14 to have firm transmission for our planning reserves. That  
15 is an incredible flexible option now for our load-serving  
16 entities in the SPP, so I don't have to contract and go get  
17 firm transmission for resources well into the future. It's  
18 a one-year look ahead.

19           So I've gotten out flexibility for 12% of my  
20 load, which in my case is 180 megawatts, that I have the  
21 flexibility to go and contract with anybody that's in the  
22 pool and has qualified capacity. So these are flexible  
23 options that consumers are really reaping benefits for right  
24 now. Largely because of, you know, your leadership in  
25 developing the RTOs allowed this to develop. And it will

1 continue to develop as the markets and competitive pressures  
2 continue to form.

3 MS. WHITTLE: Okay, where to start? We, as  
4 I noted before, are very small hydroelectric projects that  
5 were built in the 1990s, the vast majority of which are 5  
6 megawatts or less. They are not manned 24 hours a day, and  
7 they do not, under any circumstances, have direct access to  
8 ISO New England market.

9 So when we're looking today at receiving a  
10 real-time L&P price that is sometimes negative, our folks,  
11 and we are not manned 24 hours a day, it takes the full rest  
12 of the day to maybe make up for the losses in having to pay  
13 to generate power.

14 Now, that's the issue that we face with the  
15 real-time L&P, as a proxy for avoided costs, but on a  
16 foundational level, the real-time L&P is not a proxy for an  
17 avoided cost rate. What we're supposed to be looking to  
18 today as an avoided cost rate and I'm speaking in an RTO  
19 market because I think, you know, there are many ways to  
20 calculate it in the non-RTO markets, the unorganized  
21 markets.

22 Is that -- we're looking to what the utility is  
23 buying. The utility has a number of means to procure its  
24 energy in the market. If it purchases only in the R2  
25 market, it's purchasing least and probably more than 95% of

1 its power in the Day Ahead market. It has contracts, it may  
2 still own its own generation and it has a long-term look  
3 that we believe must be considered when calculating an  
4 avoided cost rate, even in an RTO market and especially when  
5 these small resources cannot reach the RTO market.

6           What we're essentially doing is providing power  
7 to the utility, not to a market. So I think the FERC, to  
8 answer the direct question, the FERC should provide some  
9 guidance and I think put an end to that use, in particular  
10 in ISO New England, and provide guidance as to what would  
11 consistent an avoided cost rate in an RTO market, because it  
12 is very different.

13           Some of the same data may be available. It's  
14 specified in the regulations, but I'm not sure that data is  
15 as relevant today in RTO markets, especially with divested  
16 generation as it is in markets where there's no RTO.

17           MR. SIPE: I apologize if this is taking two  
18 bites of the apple, but I promise to say something different  
19 than I did the first time. First, I thought Mr. Burleson's  
20 description of how Southern does its planning sounds exactly  
21 correct to me. That those numbers are used for internal  
22 planning, as well as external planning. And I think that's  
23 the appropriate, you know, you use those terms across the  
24 board.

25           By contrast, it sounds like Idaho doesn't do



1 that. We heard a very different way that they qualify  
2 utility investments and the way that they're doing avoided  
3 costs apparently, and that may be part of the problem in  
4 that state is that they've got different ways of doing it  
5 for the two resources that don't match up in some way, that  
6 maybe if there was a better match between those types of  
7 prices and planning, that that would answer some of the  
8 problem. I don't know.

9           But when we talk about the, you know, the  
10 long-term risks, certainly if you sign a long-term IPP,  
11 because you're thinking that you want to be able to avoid  
12 the energy costs, you still have the risk of stranding that  
13 IPP contract when you're not using the energy. I mean you  
14 signed up, expecting to get a certain amount of energy value  
15 out of it, you've lost part of the value proposition.

16           I think the, you know, trying to analyze what  
17 the risk is in losing that value proposition as opposed to  
18 paying a fixed price QF, and again, I think we've got to  
19 find some way to get longer term energy prices right if we  
20 really think they're declining and we're sure of it, then we  
21 should use that assumption.

22           But this is where I think you run into the  
23 encouragement question. Now, Congress may have been wrong  
24 in telling you that they wanted you to encourage these  
25 resources. But if you truly find out that one way of

1 calculating avoided costs, or one contract length really  
2 makes it so these guys cannot finance a project.

3 I think you seriously need to take that into  
4 account when you look at how much risk, or how to evaluate  
5 the risk. So there is a risk in any fixed term contract,  
6 maybe avoided cost ought to in some way reflect that, what  
7 you call the carrying risk, I think. But those are  
8 questions about trying to get the avoided cost right.

9 You still have the obligation. Until Congress  
10 says that they were wrong about wanting to encourage this,  
11 based on avoided costs, to have a financeable way for these  
12 QFs to move forward, and it's got to be fair to rate-payers  
13 and avoided cost should be fair, so do everything you can to  
14 get that right.

15 But once you get to the point where you're not  
16 offering a contract that can finance them, then I think the  
17 Commission needs to step in and say, "Wait a minute. That's  
18 probably not a way we can do avoided cost."

19 COMMISSIONER KAVULLA: I would just say in  
20 direct response to your question, Mr. Chairman, that I think  
21 the guidance that's already been offered on this subject of  
22 avoided cost methodology is largely sufficient. And  
23 attempts by FERC to further introduce administrative making  
24 of this process would really be quite difficult because of  
25 the differences between the various regions in generator

1 revenue models.

2 I mean you sat through for the past couple of  
3 days hearing about the wide variety of differences in  
4 electric transmission planning and I know just from having  
5 dealt with a single regions or the one thousand compliance  
6 filings and interregional compliance filings, that that was  
7 a morass of regulatory activity that you are probably glad  
8 to have, sort of, more or less, in the rearview mirror. You  
9 know, take that and multiply it by two or three, and that  
10 would be the amount of regulatory transaction that would  
11 have to attend any thoroughgoing intervention into it with  
12 the cost methodologies.

13 I'd also just say this, that we should be aware  
14 that we don't allow the tail to wag the dog here, because  
15 the discussion you're hearing at this table has more to do  
16 with larger debates about how generators earn revenues in  
17 the market, whether they earn revenues strictly from a  
18 centrally clearing market on a real-time or if they had an  
19 energy basis, if there's a capacity component, if there's an  
20 ancillary service component, whether you allow out-of-market  
21 hedges or long-term contracts to be layered over that, or  
22 whether in the states, like in the Western interconnection,  
23 you simply allow vertically integrated utilities to do cost  
24 or service rate-making.

25 I think you should let, if you offer any

1 guidance, it should be that for PURPA projects fall out of  
2 that tree, which is really a larger public policy  
3 determination about the nature of generation and how it's  
4 compensated. But you shouldn't allow, frankly, this  
5 sideshow which has become a footnote over the course of time  
6 because there's far more, frankly, influential ways to  
7 introduce renewable energy and competition to markets, to  
8 somehow supersede the much more important debate you've been  
9 having about the electric markets and how resources are  
10 procured.

11 MR. BURLESON: Yes. Thank you. I just wanted  
12 to clarify in response to my earlier response to your  
13 question, Mr. Chairman. And also to add to that. So I  
14 think, when I think about the long-term projections, and I  
15 think there is clearly a role for the Commission to think  
16 about making changes in that regard, in terms of that  
17 requirement.

18 When the utility has owned generating capacity  
19 that is under development typically in our four states,  
20 there are requirements during the construction process that  
21 the utility continually go back to the State Commission to  
22 update the economics of continuing those projects to ensure  
23 that they're still cost-effective for customers.

24 And in fact, typically we are required to do  
25 that about every six months or so. If a project is not, it

1 can be cancelled during the development of the project, and  
2 in fact, we've got a history on our system of cancelling  
3 nuclear projects that were under development, cancelling  
4 coal projects that were under development, simply because  
5 they were not cost-effective for customers to continue with.

6           We also have the ability -- once an owned unit  
7 is up and operating, the ability to retire that unit before  
8 its projected service-life expires. You just don't have  
9 those kinds of opportunities with long-term fixed contracts.  
10 Your customers are obligated to 100% of the cost of those  
11 contracts. And 100% of that cost is fixed, if it's based on  
12 a projected avoided cost.

13           So that's really the distinction there and it  
14 really puts customers at a disadvantage in terms of the  
15 amount of risk that they ultimately have to carry. And I  
16 think, you know, a way of addressing that would be, perhaps  
17 the Commission could consider fixing a portion of those  
18 costs based on a long-term projection, and letting the other  
19 portion of them in the QF contracts be variable.

20           So, in other words, you would set a floor and as  
21 an example, I'll just throw a number out. Set a floor  
22 that's 50% of the long-term projection of avoided cost, that  
23 the QF would get paid actual hourly avoided cost, but there  
24 would not be an hour in which the actual avoided cost  
25 payment would be less than 50% of what the long-term

1 projection was.

2           It still doesn't take away all the risks, but it  
3 certainly would mitigate a large part of the risks that our  
4 customers bear when we have to lock in long-term projections  
5 at the full avoided cost. SO I just wanted to clarify and  
6 add to that.

7           COMMISSIONER RAPER: I will be brief. I just --  
8 in response to Mr. Sipe's comment regarding whether Idaho  
9 does it right and whether we should have one rate, perhaps  
10 he's correct. Perhaps we should look at a single rate. I  
11 can tell you that the reason that our standard rate is  
12 different than our IRP-based rate for larger projects is  
13 because Idaho, as a state, has promoted renewables.

14           We wanted the small guys in. We've got a ton of  
15 hydro, we've got biomass, we've got geothermal and we truly  
16 wanted to promote those small renewables in our state,  
17 consistent with PURPA and its intent and the heart of the  
18 law. So the standard rate is based on a combined cycle gas  
19 plant.

20           That generates a higher avoided cost calculation  
21 than the IRP rate does, which is why we have the larger  
22 generators trying to come in within that standard rate. So,  
23 to Mr. Sipe's point, perhaps the way to avoid that gaming in  
24 our state is to go with the single rate. It would be truly  
25 unfortunate, because we really do believe that those

1 standard rates that we have promote the intent and purpose  
2 that PURPA originally intended.

3 MR. ROSE: Ms. Whittle brought up something in  
4 her response that's come up in Michigan as well, so I feel  
5 compelled to say something about it. I think Laura  
6 Chappelle, this morning, described who belongs to the IPPC,  
7 their basically small hydro, mostly small hydro and some  
8 relatively small biomass producers. The utilities there, as  
9 well, are arguing that their avoided cost or incremental  
10 cost is essentially the market price that they get in the  
11 RTO market.

12 The problem with that argument is that, at best,  
13 maybe you're looking at a marginal cost, a short-run  
14 marginal cost, but that's not really the same thing as the  
15 incremental system cost that we generally use in order to  
16 calculate the avoided cost. So, that's a, maybe a  
17 clarification that the Commission might consider that the  
18 short run is not going to really reflect that avoided cost  
19 that I think, what Congress had in mind, when they wrote  
20 PURPA, or that's in the FERC rules today.

21 Because there'd be tendency, especially now with  
22 relatively low prices, there's a, I think, a temptation to  
23 try to use that as a shorthand way of getting out of avoided  
24 cost, but it doesn't really reflect that, certainly not the  
25 utilities' avoided cost.

1           MR. HUGHES: I'm just going to run with what Ken  
2 just said. Where this discussion is drifting is, we're  
3 trying to create a huge and very important industry, power  
4 sector in this country, where we don't have any long-term  
5 contracts. Okay? They're too risky, so everything's got to  
6 be done on spec. I mean, is that where we want to go?

7           I mean, already the organized market provides  
8 little in the way of long-term certainty of anything that  
9 will fund, you know, a base-load plant. And now we're  
10 trying to do the same thing in the unorganized markets with  
11 some of the best technology that this country's ever come up  
12 with. I think this is a very serious discussion that needs  
13 some kind of resolution.

14          MR. BROGAN: Mr. Chairman, I'd like to step back  
15 to the very beginning of your question and take a look at,  
16 also at the Congressional directive. Congress directed FERC  
17 to adopt rules, which then the State Commissions and  
18 utilities have to implement.

19          With that paradigm, I think the Commission does  
20 have a very important role to provide both guidance and to  
21 keep its rules updated to reflect changes that have happened  
22 since they were first adopted in 1980.

23          Secondly, as I look around the room and around  
24 the building and it pains me as a former State Commission  
25 employee to say this. I see a lot more expertise in this



1 building than I would see -- I'll pick on Pierre, South  
2 Dakota, since Commission Kavulla is here --

3           And I think that both the utilities and the  
4 commissions really respect the fact that you deferred these  
5 decisions and actual calculations and determinations of  
6 avoided cost to the State regulatory body, but what also  
7 appreciate and what we're saying we need is more guidance as  
8 to how factor in all of the things that you have in your  
9 304(e) rules. And I think that can come from you far better  
10 than from anybody else.

11           MS. WHITTLE: I just wanted to add one more  
12 thing about the long-term contract issue. Setting aside the  
13 avoided cost rate, assuming it will be fixed in New England,  
14 hydroelectric projects, especially some of our members, have  
15 licenses that span thirty, forty, fifty years and then  
16 they're renewed.

17           And some of these licenses will be coming up for  
18 renewal in the next decade. Obtaining a new hydroelectric  
19 license is very expensive. Agencies are requiring more and  
20 more of licensees and requiring stricter operating  
21 requirements to protect aquatic and fish and wildlife.

22           So from our perspective, having a long-term  
23 contract can provide a lot of benefits, in that when we're  
24 in re-licensing, we understand, you know, the revenues that  
25 will be coming and can make determinations on the

1 re-licensing.

2           And I can't tell how beneficial these projects  
3 have been to the country and the New England region. They  
4 provide benefits that are not always obvious in that they're  
5 in remote locations, so they support load in remote  
6 locations, and they're very reliable and have long operating  
7 histories and lots of data.

8           And so, you know, we're at a crossroads here,  
9 but we really need some kind of guidance on this issue, and  
10 we really do need some long ability that have some long-term  
11 certainty that we'll keep developing these projects and keep  
12 running these projects and obtaining new licenses and  
13 running them for another thirty or forty or fifty years.  
14 Thank you.

15           MR. FOLEY: Just a couple of quick points. I  
16 think the original tentative purpose still holds true here  
17 and is very important. And that's access to the market  
18 competition and diversification of resources, all with an  
19 objective, of course, of making sure that we have the lowest  
20 cost affordable power going forward, but achieving some very  
21 important other kinds of objectives.

22           This notion of, what we're also trying to do by,  
23 you know, through long-term contracting, is -- , you know,  
24 private sector capital investment, you know, in this kind of  
25 infrastructure that we all, the public, benefit from. So

1 there's a big issue about, you know, whether, you know, the  
2 question of the sanctity of long-term contracts. Those  
3 really are going to be critical if we want private capital  
4 to step in and developers to develop these kinds of  
5 projects.

6 I think, without that, you just won't get there.  
7 There is one factor that is emerging, I think in our power  
8 markets, and just something to put on the table. We're  
9 seeing increasing interest of a large corporate third party  
10 interest in purchasing renewable energy power. But in some  
11 places, that third party purchase is not available.

12 And so we do see an opportunity for some offtake  
13 for some of these larger renewable energy projects with  
14 third party contractors, including the larger companies.  
15 That may afford some flexibility as we look at this going  
16 forward. But the key thing is that the long-term sanctity  
17 of contracts and we've got to be very careful about that.  
18 And they are the key to getting projects financed and built.

19 COMMISSIONER LAFLEUR: Well, my goodness. I  
20 started off the day by saying I had worked on early PURPA  
21 contracts. Thank you, Ms. Whittle, for saying that  
22 Massachusetts was a leader. In spite of those thirty years,  
23 it seems like the more I hear about this, like many things,  
24 the less I think I understand it.

25 So I want to ask one broad question and one very

1 narrow question. And the broad question, for those of you,  
2 unlike Travis who thinks we should do something, as you  
3 answer this next question or any question, I would be  
4 interested in whether you think we should re-open the  
5 regulations and take a real look at them, offer some sort of  
6 guidance -- somebody mentioned a Policy Statement -- or just  
7 be more vigorous in our backstop and not just keep issuing  
8 Notices of Intent not to Sue.

9           I mean the one time we did bring a suit, I ended  
10 up voting to bring it and settling it, but it -- so if you  
11 want us to do more, I'm interested as you answer and how.  
12 But substantively, I would like to dive back into this issue  
13 of the length of price assurances, because we heard, I  
14 realize to Travis' point there's very different market  
15 structures, but we heard two such different things from  
16 Commissioner Raper saying that she didn't feel the regs gave  
17 her any flexibility to reset avoided costs so the only way  
18 to upset that was to have short contracts to what I know to  
19 be the case in New England and other markets, avoided cost  
20 changing every five minutes.

21           Those bookends seem too wide to me. And I'm  
22 trying to gauge what's baked into the statute and what we  
23 can really change, but for people who think there should be  
24 some -- we talked earlier this morning about that, you  
25 modulate amounts by -- as you get deeper in your dispatch

1 stack, avoided costs might change. Well, that's not going  
2 to happen if you do it every thirty years.

3           So for those of you who think there should be  
4 any kind of reset or whatever, how often do you think that  
5 should be? Are we talking every five years, you reopen a  
6 piece of it? Or you set avoided costs for a period? What  
7 would you think would be reasonable and within the statute?  
8 It'd be somewhere between no reopener and every five  
9 minutes, there's got to be something a little more  
10 modulated.

11           MS. WHITTLE: Thank you. I'll start. First, I  
12 do think that there is some guidance that is needed with  
13 respect to what can constitute an avoided cost rate in an  
14 RTO market. And I've expressed our strong opinions on that  
15 issue and I won't repeat them again.

16           I think there are many ways you can do it that  
17 is both fair and accurate and represents an avoided cost to  
18 the utility in an RTO state, whether you have divested or  
19 undivested.

20           I will say, with respect to a Policy Statement,  
21 the geek lawyer in me would rather see a Notice of Proposed  
22 Policy Statement come out first, so that we could then  
23 respond in writing and have a more deliberative process  
24 with, you know, all the stakeholders, you know, who didn't  
25 come here today, participating.

1           COMMISSIONER LAFLEUR:  -- versus a rule-making  
2 or something, not that we'd jump right in --

3           MS. WHITTLE:  Yeah, no, so I don't think the  
4 rules, I don't think the regulations need to be changed.  In  
5 fact, I even brought Order 69 with me and read it last night  
6 while I was watching the Olympic swimming trials, and I  
7 actually think it's a pretty amazing document, considering  
8 how old it is.

9           However, we do think there is some guidance to  
10 catch up in the RTO markets in particular, and to the extent  
11 you think there's any modification to the long-term nature  
12 of a contract.  I suppose that could be brought up in a  
13 Notice of Proposed Policy Statement as well.  But I don't  
14 see, having just read Order 69, any real changes that are  
15 needed.

16          MR. WISE:  Commissioner, I'll just quickly  
17 discuss your second question.  The first one answer, I don't  
18 think you need changes.  I want to make sure we  
19 differentiate between energy and capacity, because energy is  
20 on a five-minute basis and settled five minutes in the RTO  
21 markets.  Then you have the Day Ahead market too, so you can  
22 hedge a little bit that way.

23          But in terms of contracts, what I was discussing  
24 before was actually in the capacity piece.  And since we  
25 have a one year look ahead now in the SPP, actually the SPP

1 transmission planning process was studied afresh every year  
2 and looked forward for two years.

3           Currently right now, their studies show that all  
4 750 generators in the SPP, all 750, have a percentage of  
5 deliverability to all of the load in the footprint over the  
6 next two years. So one to two years could be reasonable for  
7 the consumers in the Southwest Power Pool with regard to our  
8 new rules that we'll be filing.

9           COMMISSIONER LAFLEUR: What's the contract  
10 length? For price, you mean? Is that what you're saying?  
11 For capacity price?

12           MR. WISE: That would be the contract or the  
13 capacity price. If you want to reset it, the problem is,  
14 again, because of the nature of our load forecast and the  
15 need for it, or the lack of the need, it's going to change  
16 from year to year. You know, with long-term contracts.

17           COMMISSIONER LAFLEUR: PURPA's obligations  
18 unnegotiable? I mean you don't go through need with PURPA,  
19 right? You have to buy it. We're talking about what you  
20 pay for it, so would you reset that every year?

21           MR. WISE: First of all, I would consider how  
22 much you need to buy and try to maintain as much flexibility  
23 as possible, looking at the resource planning need for the  
24 consumers. If we bought everything we thought we had  
25 forecast for out in the future, plus the reserve margin, and

1 as I said, the low forecast drops substantially you're way  
2 over and your consumers are paying exorbitant amounts of  
3 money for energy they don't, or capacity never used, or  
4 never can use. Right?

5 So you remove that flexibility the longer you go  
6 out. So what we look at is actually planning long-term for  
7 just our forecasted load or maybe a little bit less than the  
8 forecasted load. The reserve margin piece is the one that I  
9 would like to be able to say, you know, and the SPP has  
10 taken care of our needs in terms of having the correct  
11 capacity one or two years out and look at.

12 COMMISSIONER LAFLEUR: Don't you have to buy the  
13 QFs and other things come up and down. I mean I didn't  
14 think you got to say, "Oh, this year we need load, so we'll  
15 buy it. Next year we don't need load, so we won't buy it."  
16 I thought that was baked into the statute, buying it. We're  
17 talking about how much you pay, I thought. Don't

18 MR. SIPE: First, I agree with your last  
19 comment. I think need should be baked into the avoided  
20 cost. I mean your avoided cost should reflect the need and,  
21 you know, the need may be very low. Maybe you don't need  
22 any capacity at all. Maybe the capacity price is zero. I  
23 don't think that's inappropriate in a case where the utility  
24 itself is saying, "We're not building, we're not buying," so  
25 I think you're right. I don't think you handle that on the



1 obligation side.

2           You handle it by getting avoided cost right. In  
3 answer to your first, sort of general question, I don't  
4 think the rules need to be changed. I think that the state  
5 that we're at, we need more vigorous Commission enforcement  
6 of things like standby and backup rates. And I know it's  
7 more work and it's case-by-case specific, but there really  
8 is not a general principled way that everybody's going to  
9 predict the future the same way.

10           I just think trying to do that, or say, this is  
11 not allowed. You want people to be looking at the way they  
12 plan, what they think their system needs and setting their  
13 avoided costs based on their best judgment. And I think the  
14 Commission's backstop role is important in making sure that  
15 you are encouraging QFs.

16           In terms of how long those contracts need to be,  
17 I think until Congress changes its mind, they've got to be  
18 long enough that a QF is financeable. And they have to --  
19           COMMISSIONER LAFLEUR: -- price for that whole  
20 time?

21           MR. SIPE: No. They've got to be long enough  
22 that it's financeable. Now, I've heard someone say earlier  
23 this morning, for instance, that well, you give us fifteen  
24 years instead of twenty and then you put me on the market  
25 after that, I could do that.

1           I heard a suggestion from Mr. Burleson about how  
2 you could use the avoided cost -- this is why I think the  
3 Commission judgment is important as a backstop. Some of  
4 these things are obviously going to be done as a way of not  
5 having these things built and not allowing them to compete.

6           And other things are going to be a reasonable  
7 reflection of what the utility really thinks its risk is,  
8 and how to value that risk. And I don't think there's a  
9 general rule for that you can come up with. And I think  
10 Commission opening a rule-making to try to set a general  
11 rule for that, you know, that discussion could go on for a  
12 long time now. As an attorney, maybe I like that. But I  
13 wouldn't think, for your docket, it'd be particularly  
14 helpful.

15           COMMISSIONER LAFLEUR: -- so my colleagues have  
16 a chance. Who do I see up? Kris? I couldn't tell whether  
17 Kris or Kristine was your friend, so I want to be whichever  
18 one is your friend.

19           COMMISSIONER RAPER: You got it right. Well,  
20 and you provided me the greatest gift that I've ever had on  
21 Christmas Eve, because of course, the Idaho Commission was  
22 on the other side of that docket and, while I wasn't a  
23 Commissioner at the time, I was counsel for the Commission  
24 and that was my greatest Christmas Eve gift ever, so thank  
25 you.

1           And I may be on the wrong side of this argument,  
2 as far as how you posed it and asked it, but I wanted to be  
3 clear about the comments that I had made and how you were  
4 talking about avoided costs moving all the time. I would  
5 think avoided costs does move all the time, but it's the  
6 Idaho Commission's interpretation of FERC regulations that a  
7 QF has the option to choose to be priced at the time that  
8 they enter into the contract, or at the time the energy is  
9 delivered.

10           And it's been our interpretation of FERC  
11 regulations that if they choose pricing at the time they  
12 enter into the contract, that that's the price that remains  
13 for the duration of the contract. So again, as I said  
14 earlier, if there's a different proposition that FERC wants  
15 to put forward that would allow a different interpretation  
16 of that regulation, we're all for it in Idaho.

17           And as far as at what point should a contract be  
18 re-opened, you know, we picked two years, and as I said,  
19 everything else functionally within those contracts is  
20 exactly the same as it would be in a twenty-year contract.  
21 They're still entitled and onboard for capacity. They're  
22 part of the resource stack. Everything remains the same.

23           We randomly pick two years because it goes with  
24 the IRP cycle of our utilities and because otherwise we have  
25 no knowledge or understanding of what the dollars are that

1 are spent or needed to make a QF financeable. Now, if at a  
2 given point a QF wants to turn over their books to us and  
3 show us that they're financeable at a given point, I'm all  
4 for that.

5 I would look at that and I would consider that.  
6 Because I do believe that -- well, I don't believe that  
7 PURPA or FERC regulations require us to give a contract  
8 length that makes a QF financeable, but I do believe that  
9 the intent of the law is that these renewable resources be  
10 allowed to come on board.

11 So I challenge a QF, I mean, you know, look at  
12 our history. We've got dozens and dozens of contracts that  
13 come before us. And along the way, as we've changed our  
14 methodology and the way that things are calculated, for the  
15 last ten years that I've been at the Commission, each time  
16 we make a modification to the methodologies, the QF says,  
17 "We won't be financeable. You can't do that."

18 And then we change it. And then more come on  
19 board. So, again, tell me what it is that makes a QF  
20 financeable. Show me the books, show me what you need in  
21 order to get there, and then that can be weighed within the  
22 proposition and within the allocation of costs and choosing  
23 an avoided cost for the QF resource.

24 COMMISSIONER KAVULLA: Yeah, I think it should,  
25 of course, be pointed out that when PURPA became law and

1 when the Commission adopted its implementing regulations,  
2 the business model of all of these utilities was uniform  
3 across the country. I mean, all of them self-built, some of  
4 them long-term contracted generation. And those things went  
5 into rate-base, utility-owned generation.

6           And the avoided cost was meant to be a mirror  
7 reflection of that long-term revenue model that promoted  
8 entry through these monopoly enterprises. And now, as  
9 you've had a diversification of business models, I do think  
10 it's at least reasonable to think what FERC might do if it's  
11 not already being done to continue to make sure that avoided  
12 cost methodologies are actually mirroring the over-arching  
13 business model for generation in a particular marketplace.

14           But let's say hypothetically -- and FERC has  
15 reasoned in many of its orders regarding Eastern RTOs that  
16 the idea behind the market design of those RTOs is to allow  
17 a completely private generator to earn sufficient revenues  
18 from its Day Ahead energy, real-time energy capacity and  
19 ancillary services market to enter and compete and continue  
20 to operate.

21           Whether or not that's true is frankly a much  
22 larger question than this. But in that market, if that's  
23 your underlying premise of generator revenue, then it would  
24 seem appropriate in that context for PURPA's avoided cost,  
25 to simply be a reflection of that methodology. In other

1 words, perhaps a long-term contract where the off-taker has  
2 some kind of bidding obligation or transaction obligation to  
3 enter the QF's output into a market, but where the contract  
4 is settled through the clearing prices of that given market.

5           Again, in a hypothetical where that load-serving  
6 entity has no other long-term contracts and is a default  
7 supplier, which is simply a price-taker off of the market,  
8 whoever its remaining consumers are. But in the situation  
9 where you have an unstructured utility, which still does  
10 long-term resource planning and avails itself of the  
11 monopoly protections of many states in the Western  
12 interconnection and some others, it would seem appropriate  
13 to countenance the idea that QF should generally get the  
14 same deal.

15           So thus, my recommendations on Page 9, that if  
16 you wanted to adopt something that didn't have a lot of  
17 compliance filings associated with it, you could at least  
18 try to take other measures of competition in these markets  
19 as a proxy for allowing some of the EEI language to be  
20 adopted, so long as there were real safeguards that  
21 competition had made it into the market.

22           You know, otherwise, I think it's reasonable for  
23 the Commission to ask, trying to put the shoe on the other  
24 foot as a test. I mean if EEI, for instance, is proposing  
25 language that energy be compensated avoided cost based on

1 the index price on the bilateral market at the time of  
2 delivery, or that shorter term contracts be proposed, then  
3 you should also probably ask, "Well, why doesn't rate-based  
4 treatment end after two or five or seven years and then, you  
5 know, utility-owned projects get revalued, tagged to  
6 whatever fair market value they have on the market?"

7           That's not the business model of generators in  
8 those places and so it follows that it probably shouldn't be  
9 what you do with regard to PURPA. But these are things  
10 that, you know, Commissioner Raper and I and my colleagues  
11 can debate on our own, and I think there is still a lot of  
12 work to be done within the context of those laboratories of  
13 democracies to figure all of this out. Thank you.

14           MR. HUGHES: I don't think we need to, or do I  
15 want to see the regulations opened up for review. I think  
16 they were ingeniously written in the context of the day,  
17 when they were written, which was when they were -- you  
18 know, the wreck of 200 nuclear power plants all over the  
19 country that had to be abandoned. And so one concern about  
20 reviving the regulations would be that it would allow the,  
21 you know, some states to basically abandon their  
22 responsibilities under the law if too much flexibility was  
23 given there.

24           Even the best of regulations is probably not  
25 workable 100% of the time and so I think, and I would hope

1 that the federal power act in PURPA give you enough  
2 authority to deal with these one-offs on a case-by-case  
3 basis, which would probably, you know, be clearly the best  
4 solution right now.

5           With respect to re-opening these contracts every  
6 two years, I'm not aware of any, you know, rate-based that  
7 gets re-opened every two years. And where there's a  
8 reconsideration of whether or not they both still belong in  
9 the rate-base and I'm fully aware of how power plants get  
10 reviewed during the course of construction. But once you're  
11 in rate-based, rate-payers are pretty much locked into  
12 those.

13           MR. BURLESON: Commissioner, I was going to  
14 address your second question first, length of price  
15 assurances and just give you some data from our experience.  
16 We now have almost ten times the number of long-term  
17 contracts with renewable generators than what we have QF  
18 contracts. So these are not QF avoided cost contracts.

19           And the reason we've got almost ten times the  
20 number of those, as compared to the QF contracts, is because  
21 we're willing to give longer terms, longer contract terms  
22 generally speaking, with a locked-in fixed energy price, but  
23 that locked-in fixed energy price is typically, let's call  
24 it 50 to 60% of the long-term projected avoided cost.

25           So we're willing to take as a utility, on behalf



1 of customers, a longer term length if we set those prices  
2 well below the projections of avoided cost. It helps to  
3 mitigate the risk. And apparently developers prefer that  
4 approach. So we see that very evident, in terms of the  
5 number of contracts that we've entered into.

6 And I think that's a --

7 COMMISSIONER LAFLEUR: Did you say that, the  
8 term of your PURPA contracts?

9 MR. BURLESON: We have different term lengths,  
10 typically those are ten years. We do have a few where  
11 twenty years are options, but the timing of those -- to get  
12 a twenty-year contract, it has to be in conjunction with an  
13 RFP for traditional capacity, and we don't do those every  
14 year, only when there's a firm capacity need.

15 And so we see the developers entering into these  
16 contracts at much less than our long-term projections of  
17 avoided cost. So we know that the projects are economic.  
18 If we were to extend our contract lengths for the QF  
19 contracts and pay full avoided cost, there would be huge  
20 economic windfalls to those renewable developers.

21 And so I think that transitions me back to your  
22 first question. Do you need to re-open the regulations,  
23 clarify -- and I think, yes, either you need to clarify what  
24 is intended by paying the avoided cost calculated at the  
25 time the obligation is incurred, because many have

1 interpreted that to mean that that is the then long-term  
2 projection of avoided cost.

3           And what's that resulting in is typically  
4 shorter contract term lengths. And so if that's not the  
5 intent, that in fact those avoided costs could be  
6 periodically adjusted, even during the term of the contract.  
7 I think that would be a good clarification. Otherwise, I  
8 think there may need to be a re-opening of that particular  
9 regulation. Because it's clear to us that the developers  
10 value the longer term lengths, rather than the shorter term  
11 lengths. And we, on behalf of our customers, only want to  
12 enter into those very long term length contracts if it's  
13 well below our projections of avoided cost.

14           MR. BROGAN: I think two quick points. On EEI's  
15 membership, which represents 70% of the electric industry,  
16 went through a whole series of calls, and as you can  
17 imagine, utilities don't agree.

18           COMMISSIONER LAFLEUR: Those calls -- I don't  
19 want to be on them ever again.

20           MR. BROGAN: But in our pre-filed statements,  
21 both of Mr. Schmidt and of myself, we provided some fairly  
22 narrow and specific suggestions for revisions to 204, 304  
23 and 309. We think that those provide a framework for  
24 reopening and discussing modifications to those particular  
25 rules and we think that would be appropriate.

1           I must respond to a couple of comments that were  
2 recently made about once something's in rate-base, customers  
3 are locked into it forever. One, they're not locked into it  
4 forever for various reasons, but more importantly we often  
5 see the return on equity that is allowed for that rate-base  
6 amount, to vary every time there's a rate case, which may be  
7 every two years, maybe every three years or for some  
8 utilities I've never been involved with, maybe every twenty  
9 years.

10           COMMISSIONER LAFLEUR: -- once, unless anyone  
11 has anything burning, I guess, Liz, I'll give you the last  
12 word. But I want to give my colleagues a minute.

13           MS. WHITTLE: I just wanted to make one  
14 clarification and that is that avoided cost is based on the  
15 utilities' avoided cost. And so when there's all discussion  
16 about what generators are offering and what generators'  
17 marginal prices are, what generators are providing in RTO  
18 markets -- even assuming that my folks could reach an RTO  
19 market, that's not the benchmark for an avoided cost rate.  
20 The avoided cost rate looks at the utilities' avoided cost.  
21 And what we're saying here is that the utilities' avoided  
22 cost is the default energy rate or what the utility buys its  
23 power.

24           It could be in the real-time market, plus  
25 contracts plus renewables plus whatever. And it's that that

1 we're looking at in determining avoided costs, not the cost  
2 of an individual generator and that's in the statute, in the  
3 conference report, in Order 69, and it's pretty much clear  
4 throughout. Thank you for letting me make that  
5 clarification.

6 COMMISSIONER LAFLEUR: That it is Ken, right?

7 MR. ROSE: Just very quickly. Let me urge you  
8 to not get too caught up right now in the current market  
9 conditions, because I think that's what a lot of the  
10 comments are obviously directed at. That can change  
11 obviously very quickly. I'm not an attorney, but I think a  
12 very clever attorney could write a contract that is  
13 worthwhile to both parties, or agreeable to both parties,  
14 that takes into account changes in the market condition.

15 Right now it's been pointed out by the Chairman,  
16 you know, prices are low, I think there's a lot of concern  
17 right now that they don't want to commit to a long-term  
18 contract, but when I hear somebody say, "Well, right now,  
19 they want long-term," that's because they think the price is  
20 going to stay low. They'll want short-term if the prices  
21 start going up.

22 And I don't know if that will happen. I'm not  
23 good at forecasting, but you know, the market conditions can  
24 change very quickly, so any kind of a change that you're --  
25 I don't believe there's a serious change to the rule that's

1 necessary, but any change that would be made has to account  
2 for all market conditions, not just what's going on today.

3           COMMISSIONER LAFLEUR: I just want to ask a real  
4 quick question. Both this morning and in this panel,  
5 several references were made to foreign investors or foreign  
6 companies coming in. And of course we're seeing more of  
7 that across the industry. Does anyone think that that makes  
8 a difference under PURPA? What the -- or was that just kind  
9 of atmospheric? I mean, is this --

10           COMMISSIONER RAPER: Well, no I was just --  
11 because it was my reference to Italy. To me it's anecdotal,  
12 but it's also a statement of who's making money and lining  
13 their pockets on the backs of rate-payers? Or to the  
14 rate-payer's detriment? If everything else is fair and just  
15 and reasonable, then we're good. I don't care who it is  
16 that's -- you know, investing and creating the projects.

17           MR. SIPE: The same -- if everything else is  
18 fair, we don't care.

19           MR. FOLEY: And I would just reinforce that  
20 point and note that, you know, these are global industries,  
21 of course. Utility industry's global, global players in  
22 renewable, very much of a global industry as well. And U.S.  
23 and the international companies are part of this great  
24 expansion, what's happening in renewables here in the U.S.  
25 and around the world.

1                   COMMISSIONER HONORABLE: All right. We've  
2 reached the 3:00 hour, which for me is an afternoon lull.  
3 So this question requires audience participation. Raise  
4 your hand -- now some of your neighbors are maybe napping.  
5 Raise your hand if you've been here all three days. Okay.  
6 Give yourselves a round of applause. That's to wake up your  
7 neighbor. Really.

8                   And on a serious note, we -- I'm not sure if we  
9 really knew what we were doing when we planned all these  
10 Technical Conferences, but it's invigorating, it's exciting  
11 and this is yet another topic in which, as you can tell from  
12 the participants, there's a great amount of interest. And I  
13 want to thank those of you who've participated this morning,  
14 this afternoon, who have submitted written comments. It's  
15 very, very helpful to us.

16                   With regard to PURPA, since I've been here at  
17 the Commission, I've heard a bit of everything, honestly.  
18 I've heard it's working well, I've heard it's horribly  
19 broken, we've even heard from the Hill as you're aware, from  
20 members of Congress who have constituents that have raised  
21 concerns to them about PURPA and its implementation.

22                   I've heard it's either costing consumers  
23 enormous amounts of money or it's leaving rate-payer savings  
24 on the table. But especially with regard to cogen and CHP,  
25 I find, and I admit, it harkens back to my days as a state

1 regulator, that there's a tremendous opportunity for greater  
2 energy efficiency, economic growth and ways in which we can  
3 support America's manufacturing sector, for the most part,  
4 Commissioner Raper, with efficiency and becoming more  
5 competitive, which is important nationwide.

6 I certainly believe we can all agree that  
7 the grid has undergone tremendous change since PURPA's  
8 enactment. We've heard a bit of that today. We certainly,  
9 today, have more robust wholesale electricity markets open  
10 access transmission, what will or may or may not be the  
11 clean inner -- of a clean power plan, renewable portfolio  
12 standards and certainly most of these or all of these did  
13 not exist in 1978.

14 So we've come a long way and we're at a place at  
15 a juncture where we are attempting to wed, or at least  
16 coordinate what is happening today with the original intent  
17 of PURPA, as Congress sought then. Today I certainly  
18 appreciate hearing from you what is working well, more  
19 importantly what's not and from my new perspective, newer  
20 perspective, what we at FERC should or can do to aid in the  
21 successful implementation of PURPA as Congress set forth.

22 And certainly as a former State regulator, I've  
23 had the benefit of some perspective in making avoided cost  
24 determinations and I'm looking forward to working with you  
25 in this capacity, now having been through, I've sat in the

1 seat that the State Commissioners sit in and interacting  
2 with FERC. Kris, I, too, got a Christmas Eve call, I was  
3 saying to the side here, and it made my day too. I don't  
4 know if it was my best Christmas gift, but it was a great  
5 one.

6 I'd also like to thank all of you, most of all  
7 for your work in implementing this. I think this panel, in  
8 particular, demonstrates that it is not a simple task, so  
9 I'll get to some pointed questions and I appreciate  
10 Commissioner Clark for letting me jump ahead in the queue.

11 So, John Hughes, I love engaging with you.  
12 You're never bashful. You said that you had some asks and  
13 one of the asks for the Commission was that we should  
14 acknowledge that implementation is flawed and something that  
15 I didn't get. But I want to ask you why? What purpose  
16 would that serve? So I'm with you on the other two, should  
17 the -- I mean understand your ask. The Commission should  
18 issue a Policy Statement to promote cogen, direct staff to  
19 prepare guidance, that would be helpful, along with best  
20 practices.

21 What was your third point and what was the  
22 impetus for it?

23 MR. HUGHES: The third point was an ISO or RTO  
24 tariff that -- the word tariff may be somewhat of a misnomer  
25 in reality, it'd be much more in the form of guidance with



1 binding guidance, that people at a manufacturing plant who  
2 are responsible for selling power and they may typically be  
3 a chemical engineer, and not a, you know, the type of  
4 technical wonk that's more familiar the way the organized  
5 markets have been structured and their history.

6 COMMISSIONER HONORABLE: I appreciate that and I  
7 certainly heard that from IP and others in Arkansas, you  
8 know, skilled plan operators and the like. That's right.

9 MR. HUGHES: It could serve several very useful  
10 purposes. One it would be a user friendly interface between  
11 the customer load that has the behind the meter generator  
12 and the organized market. It also would provide the  
13 organized market a requirement, at least somebody on their  
14 staff understands what a QF is, what a cogeneration unit is,  
15 what standby rates are for, why they're essential.

16 And the general historical legacy of why PURPA  
17 is here and why NIPPC is here. We're finding that that  
18 technical expertise is not very common in the industry and  
19 especially as the baby boomers like myself begin to retire  
20 and they're replaced by people, younger generation that  
21 don't even know what PURPA is, or for that matter, CHP or  
22 cogeneration. So that's the intent of that.

23 COMMISSIONER HONORABLE: Understood. Thank you.  
24 I hope you aren't retiring anytime soon. I don't think  
25 Charlie is going to let that happen.

1                   MR. HUGHES: Well, I got -- this tie is new, so  
2 I want to get some mileage out of it before I retire.

3                   COMMISSIONER HONORABLE: Good. Good, good,  
4 good. My next question is for Ms. Whittle because you had  
5 some asks as well, and you were trying to get it in. I  
6 understood that you believe that the Commission should  
7 update the avoided cost definition to say that L&P is not  
8 the best way to calculate it. What were your other asks?

9                   MS. WHITTLE: Yes, what we suggest is that the  
10 Commission should issue, first, a Notice of Proposed Policy  
11 Statement and then a Policy Statement. The geek lawyer in  
12 me, again.

13                   COMMISSIONER HONORABLE: Well, and I appreciate  
14 that. You guys want the opportunity to have a say.

15                   MS. WHITTLE: Yes. Policy statements are  
16 interesting for, you know, a few purposes. And we would  
17 like the Commission to confirm how avoided costs are  
18 calculated in L&P markets and confirm that you look to the  
19 utilities of what it costs, and that utilities' avoided cost  
20 is not a real-time L&P. It's more like the energy price  
21 that they pay to serve their load, that they procure from  
22 the market from whatever source.

23                   We would also like to reaffirm the right of the  
24 QF to enter into a long-term power purchase agreement at an  
25 avoided cost rate, established at the time a legally

1 enforceable obligation is incurred. We do not -- I don't  
2 have authority to give a length of contract term. So I  
3 can't say whether it's five years, ten years or twenty  
4 years. Certainly more than one.

5           And more vigorously enforce PURPA. I think what  
6 we have found, through the years, especially with these  
7 small hydro-developers, is that it's very expensive to take  
8 these battles to the State Commissions, to the Courts, even  
9 to the Commission, and when we come for help, we really need  
10 help. And generally speaking, these folks don't come to  
11 FERC as their first choice. They really do try to work  
12 things out at the state level and through their processes  
13 and through the people that they deal with all the time.

14           So when we come to FERC, we really need the help  
15 and it seems to be an efficient way to get some history and  
16 some precedent out there to make future cases a little bit  
17 easier.

18           COMMISSIONER HONORABLE: Thank you for repeating  
19 those, because I didn't find them in your comments, and I  
20 greatly appreciate the challenge that QFs face in all of the  
21 regulatory hurdles, whether it is at the state level or  
22 whether it's here. It can be costly. It can be protracted.  
23 And I can also say as a regulator, I've seen an evolution in  
24 the way in which FERC has handled these, and certainly  
25 Commission LaFleur, then Chair LaFleur, aided in attempting

1 to smooth that out, on behalf of my --

2 COMMISSIONER LAFLEUR: -- getting into it too,  
3 so --

4 COMMISSIONER HONORABLE: Well, you did, you did.  
5 I was trying to do half glass-full there, but thank you for  
6 rounding it out. So it is an evolution and this process  
7 allows us another opportunity to try to get it right. I  
8 don't think we should allow PURPA to be the enemy of good,  
9 but this is an opportunity for us to maybe attempt to  
10 provide some consistency while appreciating the diversity of  
11 the states. So, thank you.

12 COMMISSIONER CLARK: Thanks, and thanks everyone  
13 for being here. With all this talk about Christmas gifts,  
14 I'm feeling a little left out, so I just -- Kris, I just  
15 want you to know that I feel like I gave my Christmas gift  
16 early when I dissented from the original order of suing the  
17 State of Idaho.

18 COMMISSIONER RAPER: Thank you for that.

19 COMMISSIONER CLARK: Thank you. And to all my  
20 colleagues, present and past, I kid because I love. I think  
21 most of my questions have been asked and answered, but I did  
22 want to give everyone an opportunity to focus specifically  
23 in on couple of the nuances that I think NARUC has proposed,  
24 or at least I interpreted it as being -- Travis, you  
25 speaking on behalf of NARUC, the comments that you filed,

1 which was --

2 COMMISSIONER KAVULLA: Purporting a  
3 twenty-year-old resolution of the association.

4 COMMISSIONER LAFLEUR: I thought he was speaking  
5 ex-Cathedra.

6 COMMISSIONER KAVULLA: I don't have the hat.

7 COMMISSIONER HONORABLE: That's a very good  
8 question.

9 COMMISSIONER KAVULLA: So, and it's this idea  
10 that if the Commission decides that there is some level of  
11 clarity that needs to be brought with regard to length of  
12 contract terms and avoided cost rate and what needs to be  
13 paid over the course of a term and how locked-in it is, and  
14 all of those things.

15 So if that threshold is met, that as I  
16 understand, what NARUC has proposed is that, if there needs  
17 to be that clarity, then there may be certain circumstances  
18 which the Commission should take into consideration that  
19 would allow for that potential relaxation of those rules.

20 And I'm wondering if others wish to comment on  
21 that specifically? What NARUC has proposed, does it make  
22 some level of sense if we go down that route to bound it in  
23 some way by taking into consideration things like market  
24 power, whether there's an approved IRP that demonstrates a  
25 need or not for any additional capacity? All of those kind

1 of things that they've outlined? Or -- I just want folk's  
2 reaction to that, kind of general thought that NARUC has  
3 teed up.

4 MR. SIPE: I think first off, you've got a  
5 statute that basically tells you, you know, when you can  
6 give those exemptions and when you can't. And that's where  
7 you need to start.

8 I'm not sure that the Commission can delegate  
9 that authority under the statute to estate, to make the  
10 decision whether it thinks there's, you know, exercise their  
11 market power or other things, I think that's ultimately got  
12 to be something that you've got to look at yourself.

13 I think the interpretation of 210(m) is already  
14 fairly generous in the RTO market when there really isn't  
15 quality assurance on the market. We may have access to it,  
16 but I agree that, you know, one or two-year product isn't  
17 something that we can sell into.

18 I'm not sure the fact that the market monitor  
19 found there isn't, you know, market power concerns means  
20 that there's an opportunity for us to sell into that market.  
21 So I think fundamentally those are types of things that you  
22 might look at in making a decision under 210(m), whether or  
23 not those markets are reasonably competitive.

24 But I don't think you can ever turn that finding  
25 over to a state to have a state declare that, "Oh, we think

1 our markets are competitive enough." And I think that's  
2 just the basic jurisdictional issue, that Congress is giving  
3 you that role.

4 You should, I guess, listen to any argument that  
5 our markets are competitive, but that ultimately, the  
6 standard's got to be set by you.

7 COMMISSIONER CLARK: Liz?

8 MS. WHITTLE: Thank you. He covered a lot of  
9 the things that I was going to say. I think, in terms of --  
10 I think the presumption, actually has worked pretty well in  
11 ISO New England from the perspective of our small existing  
12 hydroelectric generators in ISO New England, they crave  
13 certainty and so I think that weighs against too much  
14 creating exceptions that would be permissible within the  
15 statute, but then again, there's always something quirky  
16 that comes up, no matter what you do.

17 And that's why you have the standards under the  
18 open access transmission tariff for regional differences and  
19 that sort of thing. So, but I think a firm guidance and in  
20 particular on our issues, is what we seek, but I don't think  
21 that should be delegated to the states.

22 COMMISSIONER CLARK: And I think my question is  
23 more to the, in the context of whether there needs to be  
24 more clarity with regard to shorter term of what it, cost  
25 calculations, as opposed to an exemption from the mandatory

1 purchase obligations and whether if there is some sort of  
2 clarity that needs to be brought as Charles mentioned. I  
3 mean there's some diversity of opinion on whether it's five  
4 minutes or fifty years or whatever the length of the  
5 contract is.

6           But if we decide if there needs to be that  
7 clarity, then do some of these things that NARUC has  
8 outlined in terms of whether solicitations are held and  
9 whether they're genuinely competitive in the IRP, whether  
10 the utility and its IRP doesn't forecast a need for a  
11 certain period of time for any capacity, if that, if those  
12 kind of bounding principles make sense.

13           COMMISSIONER RAPER: First of all, I apologize  
14 for overlooking the dissent, because I want to keep peace in  
15 Idaho that kept us afloat, I think, for a while, while  
16 everything was going on. So, thank you.

17           I generally refer to Travis as wicked smart. So  
18 I'm going to say that yeah, I think that NARUC has some good  
19 ideas on those elements. Unfortunately, I think that trying  
20 to implement those causes a rewrite of FERC regulations,  
21 which at least to the extent that we prepared for these  
22 technical hearings.

23           We were trying to work within the structure that  
24 was given to us to, you know, canoodle what we could and  
25 kind of make it fit. So I think they're great ideas. I



1 think that they would certainly alleviate some of the issues  
2 that we've had in the State of Idaho. I just think that it  
3 would probably cause a rewrite of some of the statute, which  
4 you're going to get a lot of input on, so --

5 COMMISSIONER CLARK: Statute or rules?

6 COMMISSIONER RAPER: Rules.

7 COMMISSIONER CLARK: Thanks, Jeff?

8 MR. BURLESON: Yes, so Commissioner, I was just  
9 going to address one or two of the items that you brought  
10 up. One, specifically capacity need for us, we generally  
11 will pay capacity for QFs starting in the year when we have  
12 a capacity need on our system.

13 And we will pay that capacity need continually  
14 and throughout the term of that QF contract. The challenge  
15 for us as an example right now is, we don't have a need for  
16 incremental capacity on our system until the year 2024. And  
17 so we don't see that it would be helpful for us to enter  
18 into a QF capacity contract today that would start paying  
19 capacity payments immediately.

20 And so I wouldn't want to see the Commission do  
21 anything that would change that kind of a construct or  
22 prohibit that sort of thing. Some of our states do,  
23 however, allow for larger QFs, particularly where it's not a  
24 standard contract, to accelerate some of the capacity  
25 payment by lowering the long-term, so that the present value

1 of the capacity payments over the term of the contract are  
2 unchanged.

3 That we would be relatively indifferent to, but  
4 we don't see that it would be helpful for our customers to  
5 start paying for incremental capacity from QFs when there is  
6 no defined capacity need on the system. So that's one.

7 And then secondly, again, as I had mentioned  
8 previously, I think the term lengths are okay, particularly  
9 longer term contracts are not something that we're afraid  
10 of. The challenge for us is, we don't think it's a good  
11 idea to lock in full long-term avoided energy costs  
12 projections for very long-term contracts. And there are  
13 many ways in which that issue could be addressed while still  
14 keeping the contract term lengths long enough for QFs to be  
15 able to get financing.

16 COMMISSIONER CLARK: Thanks for that  
17 clarification, Todd.

18 MR. FOLEY: I was just going to reinforce just  
19 the importance of the long-term contracting for renewable  
20 energy resources, and you know, without, you know,  
21 sufficient length, or you know, again, these are things  
22 probably don't get financed, or have trouble getting  
23 financing, but, and Jeff, you just, I think there may be  
24 some things that can be factored in to help on that.

25 One is what we can do to be more accurate or do

1 even a better job at looking at avoided costs. I think  
2 again when we think about resource planning, looking at  
3 again, a portfolio, I think it's been talked about the  
4 market impacts today on, you know, the portfolio and  
5 contracting, where we can't always be sure where prices are  
6 going, but there is some value.

7           You're locking in some long-term, and there's  
8 some value in maintaining flexibility in the near term, so I  
9 think an appropriate mix of these things is very important,  
10 but if we want renewables, I think to continue to contribute  
11 -- there are many ways that we are now including directly  
12 with utilities outside of PURPA, that's on -- but for some  
13 elements of the market as well, PURPA remains important on  
14 that front.

15           COMMISSIONER CLARK: Don and Elizabeth, did you  
16 want to circle back on this?

17           MR. SIPE: Yeah, and I apologize for not quite  
18 understanding the question at first. I think that we have  
19 to accept that Congress did intend to shift some of the risk  
20 away from QFs on these markets, and allow rate-payers to  
21 pick up some of the risk comparable to what they would pick  
22 up with utility projects.

23           And as I started out saying, you know, markets  
24 are not risk-free. Relying on a market, you're paying a  
25 premium there. What markets do to manage risk better is by

1 putting it on the people that can manage it fast, that can  
2 do operational things or other things that manage that risk.  
3 They don't get rid of it. If you look at the goals of  
4 PURPA, which is to encourage QFs, but also, you know, to  
5 make sure that rate-payers are protected --

6           If you're trying to encourage QFs and you  
7 actually get them built, and they're built in the market,  
8 they're going to have a much higher risk premium, and if you  
9 get them built, you're going to have to pay that risk  
10 premium. That isn't -- you don't get that for free. If  
11 they're out there in the market.

12           So when you look at who can manage that risk  
13 better, if you're Congress and you're looking at "how do I  
14 manage that risk to make sure that person that has the best  
15 chance of managing that risk and predicting it has the  
16 balance?" Is it some 20 megawatt QF out there who's trying  
17 to predict a twenty-year forward price curve? Or is it  
18 perhaps a utility with a lot of analytical skills in  
19 planning a lot of other projects and doing other things?

20           So I think we've got to get avoided cost right,  
21 but I think we've got to accept the fact that that risk is  
22 going to be managed better to get those QFs into the market  
23 under that scenario than it would be if we said, "You just  
24 got to go out in the market and either not get built or take  
25 a market premium risk," because I think the premium on risk

1 is going to be much lower under Congress' model, which means  
2 we're going to pay less.

3           Provided we actually get these things built. If  
4 we don't get these things built, then we're not encouraging  
5 QFs. So, you know, those are the sort of the two ways that  
6 they could get built. And I think there's lower risk and  
7 lower cost with the way Congress has it set up, than if we  
8 had these 20-megawatt guys out there running around in the  
9 market trying to predict the future on their own. What's  
10 your banker going to charge you? If it's financeable at  
11 all, that's very costly.

12           COMMISSIONER CLARK: Elizabeth.

13           MS. WHITTLE: Okay, I'll be brief. I know it's  
14 getting late. First of all, again, some of the standards, I  
15 think that were presented by NARUC look to more than what  
16 would constitute the avoided cost of the utility, and that's  
17 what the statute requires. So I think, to that extent,  
18 that's kind of in the Commission's wheelhouse to come up  
19 with some guidance on that front.

20           The other point is that, even utilities in RTO  
21 markets purchase electricity, and when they purchase it,  
22 there is a risk premium that's included in that purchase.  
23 And that gets reflected in the overall price that they pay  
24 for their product, that they then supply to their load.

25           So there are ways in RTO markets, and it's not

1 the real-time L&P or the Day Ahead L&P. It's that plus  
2 whatever all the other components are that go into their  
3 procurement of energy to serve load. And that's the avoided  
4 cost that we're looking at this point to try to clarify.

5 And the final point I want to make is, I agree  
6 with the representative of Southern Company, you know it is  
7 a reasonable approach to negotiate a contract, because what  
8 we're talking about here was setting avoided costs.

9 In many instances is when you can't reach  
10 agreement with the utility, entities are always free to  
11 contract at a different rate, and I guess Southern Company  
12 does at rates that are below what they consider to be their  
13 avoided cost, but we still keep that flexibility, I think  
14 that we haven't really talked about today because we've been  
15 assuming that all purchases are made at avoided cost rates  
16 and I really don't think that is true today and I don't  
17 think it was true when QF80-1 was filed.

18 COMMISSIONER CLARK: Thanks to everyone for the  
19 clarifications.

20 MR. GREENFIELD: Do the Commissioners have any  
21 further questions or statements?

22 (no response)

23 MR. GREENFIELD: Well, I know we could go on  
24 for, well, hours probably more with more questions, because  
25 I know some of my colleagues have indicated that if there's

1 time, we would have more questions. I suspect at this point  
2 we probably have taken advantage of you all for long enough.  
3 Let me thank you, let me thank the first panel of speakers.  
4 You all have been very helpful, as the first panel was.

5 And we do appreciate your taking time out of  
6 your schedules to come here today. Let me thank the  
7 Commissioners, let me thank my colleagues at the table, and  
8 those who couldn't be here today and I think with that, we  
9 are adjourned. One last comment.

10 MS. WHITTLE: Are you going to provide an  
11 opportunity to collect comments outside of what the speakers  
12 provided, right before the Technical Conference?

13 MR. GREENFIELD: I think we're going to go back  
14 and caucus and think about what we heard today and what  
15 would be the next steps, in terms of how as an agency we  
16 want to proceed, because there are a lots of issues that  
17 have been raised, so I think we're going to need to think  
18 hard about what we want to do next. Thank you.

19 (Whereupon the conference was adjourned at 3:33  
20 p.m.)

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17 Date: 6/29/2016

18 were held as herein appears, and that this is the original  
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