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BEFORE THE  
FEDERAL ENERGY REGULATORY COMMISSION  
- - - - -x  
Technical Conference: :  
ENERGY INFRASTRUCTURE and : Docket No.  
INVESTMENT in CALIFORNIA : AD05-11-000  
- - - - -x

California Public Utilities Commission  
505 Van Ness Avenue  
Auditorium  
San Francisco, California 94102

Thursday, June 2, 2005

The above-entitled matter came on pursuant to notice  
at 9:08 a.m.

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A P P E A R A N C E S

From the Federal Energy Regulatory Commission (FERC):

Pat Wood, Chairman

Nora Mead Brownell, Commissioner

Joseph T. Kelliher, Commissioner

From the California Public Utilities Commission (CPUC):

Michael R. Peevey, President

Dian Grueneich, Commissioner

John Bohn, Commissioner

Joe Desmond, Commissioner (via telephone)

Susan Kennedy, Commissioner

From the California Energy Commission (CEC):

John L. Geesman, Commissioner

From the California Independent System Operator Corporation

(CAISO):

Yakout Mansour, President and CEO

1 APPEARANCES continued:

2

3

4 PANELISTS and SPEAKERS:

5 Jim Detmers, Vice President of Grid Operations, CAISO

6

7 Jamie Simler, Western Division Region for Regulation,

8

FERC

9

Steven Stoft, Consultant to the CPUC

10

Mike Florio, Senior Staff Attorney, The Utility Reform

11

Network

12

Gary Ackerman, Executive Director, Western Power

13

Trading Forum

14

Brian Chin, Energy Merchant Equity Analyst, Smith

15

16

Barney Citigroup

17

Steve Schleimer, Vice President of Regulatory Affairs,

18

Western Region, Calpine

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Pedro Pizarro, Vice President of Power Procurement,

20

Southern California Edison

21

Curtis Kebler, Vice President, U.S. Power Trading,

22

Goldman Sachs & Co.

23

Katie Kaplan, Independent Energy Producers

24

25

1 APPEARANCES continued:

2

3

4 PANELISTS and SPEAKERS, continued:

5 Armando J. Perez, CAISO

6 Sean Gallagher, Director, Energy Division, CPUC

7 Don Kondoleon, Manager, Transmission and Evaluation  
8 Program, CEC

9

10 David Parquet, Vice President, Babcock & Brown Power  
11 Operating Partners, LLC

12 Steve Metague, Director of Electric Transmission  
13 Rates, Pacific Gas & Electric

14 Christopher J. Leslie, Executive Director, Macquarie  
15 Securities (USA), Inc.

16 Jerry Smith, Electric Utility Engineer, Arizona  
17 Corporation Commission

18 Brian Silverstein, Vice President, Operations and  
19 Planning, Chief Engineer, Bonneville Power  
20 Administration

21 Jim Avery, Senior Vice President of Electric  
22 Transmission San Diego Gas & Electric

23 Nancy Day, Board of Directors, Los Angeles Economic  
24 Development Corporation

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	I N D E X	
		Page
1		
2		
3	Opening remarks and introductions:	6
4		
5	Presentation: Current Infrastructure and	
6	Supply and Demand:	42
7		
8	Presentation: Grid Operations and Transmission	
9	Expansion Planning:	53
10		
11	Roundtable Discussion: Supply and Demand Side:	
12	Investment and Infrastructure:	82
13		
14	Roundtable Discussion: Transmission:	170
15		
16	Opportunity for Public Comment:	211
17		
18	Adjournment:	222
19		
20		
21		
22		
23		
24		
25		

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P R O C E E D I N G S

(9:08 a.m.)

CPUC PRESIDENT PEEVEY: Good morning. All right. If everybody could please take their seats. I know that you're all merely here to see Pat Wood and Nora Brownell, who is seated to my immediate left and right, which is probably a little confusing politically, but only one of them is returning to Texas shortly.

Anyway, good morning, good morning. My name is Mike Peevey. I'm the President of the California Public Utilities Commission. I want to welcome all you to the PUC here today and to our auditorium, which is almost filled. And I want to thank, as we begin today, which is this joint meeting of the several agencies, I want to thank Pat would for all of the cooperative efforts over the last several years that he has shown to California as first a member and then Chair of FERC.

And on a very serious note I personally regret that he is returning to the state of his youth, but I understand that he has great political ambitions there and that everything will fall into place in due time.

I hope that as things proceed that with the efforts of Ms. Brownell, Mr. Kelliher, and Suedeen Kelly and others, that the collaborative approach that Pat was insistent upon at FERC, once he took the reins there, with

1 California and other states, too, will continue, and I'm  
2 sure it will.

3 A few remarks. What we're going to do today is  
4 I'm going to make just a couple of introductory remarks.  
5 Then we're going to hear -- if the phone bridge is working  
6 properly, we're going to hear from the new Chair of the  
7 California Energy Commission via phone, a somewhat  
8 discombobulated voice will be coming in, Joe Desmond.

9 And then Pat Wood will take over and be running  
10 the balance of the meeting today with input from all of us  
11 and comments at the appropriate times.

12 Just a few words on energy infrastructure, which  
13 is the topic of today's meeting. This state, with a very  
14 healthy assistance and push from this Commission, is  
15 committed to fashioning a resource adequacy policy that  
16 supports existing resources and future investment in  
17 infrastructure to meet our ever-growing demands in  
18 California.

19 And I want to emphasize that our resource adequacy  
20 policy is being guided by the loading order and the energy  
21 action plan we adopted over two years ago which gives  
22 priority to energy efficiency, to demand response, and to  
23 renewable resources, all very consistent with the remarks  
24 the Governor made yesterday in announcing his global  
25 greenhouse gas reduction strategy for the next 10, 20, 30,

1 and 40 years.

2 Moving forward, the PUC is committed to clearly  
3 articulating a durable framework for resource adequacy to  
4 support existing and new infrastructure development. This  
5 requires creating a mechanism to ensure that efficient --  
6 excuse me -- sufficient resources are available to support  
7 existing resources and investment.

8 Resource adequacy in my view can be implemented in  
9 only two general ways. Either in the -- or, first, the  
10 first approach relies on a regime of freely-floating spot  
11 energy prices complemented by forward energy contracts, or a  
12 second approach that relies on a cap spot market price in a  
13 capacity market.

14 In February of this year I issued a ruling that  
15 asked the PUC staff to evaluate capacity markets and how  
16 development of such markets in California might promote the  
17 Commission's goals for resource adequacy. I'm very  
18 intrigued by the idea of creating a workable capacity market  
19 to complement the energy market.

20 Lastly, as California implements resource adequacy  
21 we will need FERC's assistance in addressing the seams  
22 issues between California and the rest of the West. So I  
23 look forward to today's hearing and the discussion of these  
24 and other fundamental infrastructure issues.

25 Now is Mr. Desmond available?

1           CEC CHAIRMAN DESMOND (by conference phone): Yes,  
2 he is.

3           CPUC PRESIDENT PEEVEY: Hello, Joe.

4           CEC CHAIRMAN DESMOND: Good morning.

5           CPUC PRESIDENT PEEVEY: We've got a packed house  
6 here.

7           CEC CHAIRMAN DESMOND: I wish I could be there in  
8 person, but until we figure out how to do two things at the  
9 same time, we're conducting the second day of a workshop and  
10 we're looking at resource adequacy money that is almost the  
11 same topic in this case.

12           So if you'd like, Michael, I could make a few  
13 remarks right now and --

14           CPUC PRESIDENT PEEVEY: Please do so.

15           CEC CHAIRMAN DESMOND: -- then when this is over,  
16 listen in.

17           CPUC PRESIDENT PEEVEY: Please do so, Joe.

18           CEC CHAIRMAN DESMOND: Very good. Well, first let  
19 me thank you for the opportunity to dial in. And, as I  
20 said, I apologize, I cannot be here in person, although I  
21 will be heading into San Francisco later today.

22           I'd like also to extend a welcome to the other  
23 members sitting up there on the dias from FERC as well as  
24 the others, and extend a welcome to everyone. I'm sure you  
25 have quite a large audience.

1           Let me speak for a moment here about the need to  
2 follow on the energy market and infrastructure for resource  
3 adequacy. I think most people in this audience have heard  
4 -- have heard the Governor's policy for the future as to the  
5 cooperation and assistance between the various agencies who  
6 have been working together over the last few years to arrive  
7 at a set of priorities. And on the top of that list in  
8 ascending order is: Energy efficiency, demand response,  
9 renewable energy, more traditional fossil fire fuel, and  
10 then current with that, looking at the need for a  
11 transmission infrastructure.

12           I'm going to limit my comments today to talk a  
13 little bit about the purpose or opportunity of a capacity  
14 market and what it can do for California to help satisfy the  
15 requirements that the PUC adopted, which is a 15- to 17-percent  
16 planning reserve margin for load-serving entities.

17           First, let me say that the purpose of a  
18 capacity-market structure, and there are several ways in  
19 which we can get to this, is first is a compliant-demonstration  
20 mechanism. In order to avoid having to  
21 continually revisit, a well-designed functional capacity  
22 market can be used as a compliant-demonstration mechanism to  
23 ensure that all load-serving entities -- by that I mean the  
24 investor-owned utilities and the other load-serving entities  
25 who provide electrical service to direct-access customers,

1 are, in fact, in compliance and they're looking sufficiently  
2 far forward in securing those resources, making sure that  
3 they are both deliverable, as well as we have assessed the  
4 value or the sort of accounting methodology of how we weight  
5 and provide value to the particular resource.

6           There has been a lot of work done so far in many  
7 of the technical workshops the PUC has sponsored to resolve  
8 some of these questions, although clearly there is some more  
9 work that needs to be done, specifically addressing the  
10 whole area of reliability issues.

11           But the compliance demonstration mechanism is an  
12 important function of a public utility capacity market  
13 mechanism.

14           The second objective, then, is that it should also  
15 function as a settlement mechanism for obligations as those  
16 obligations change with customer loads change.

17           Setting aside the issue of whether or not there is  
18 retail choice, but the question still remains as load  
19 changes under one of three conditions. It could be  
20 community choice aggregations. It could be direct access,  
21 contract expiration and renewal, or it could be a  
22 municipalization where customers are now being served by  
23 someone outside of PUC's purview. Then we still have this  
24 issue of obligations, financial obligations, made on behalf  
25 of customers, for those customers may be served by other

1 suppliers.

2 So the second function then of a well designed  
3 capacity market should be to address the settlement,  
4 financial settlement obligations, as those loads change  
5 hands.

6 The third is to provide a level playing field for  
7 supply and demand side to participate as a way of mitigating  
8 against high priced volatility. There is a lot of  
9 opportunity. The State has adopted a goal of five percent  
10 of consistent peak of customer demand response for 2007. We  
11 are not there. We have some distance to go.

12 A capacity market provides the opportunity for a  
13 financial stream in order to allow stable business models to  
14 emerge and have those resources participate actively on an  
15 equal playing field. So, the details in this case.

16 I think I led a presentation recently that was  
17 entitled, "The devil's in the details," clearly is the case  
18 here. But we have to ensure that we're talking and  
19 encouraging demand and supply at the same time.

20 The third function is that the capacity market  
21 needs to provide the appropriate incentives to compensate  
22 providers, supply and demand side, to make the necessary  
23 investments in the market. That may not mean that they are  
24 recovering 100 percent of fixed costs in terms of receiving  
25 that. But as an appropriate mechanism, it should provide

1 sufficient incentive to offset fixed costs of making that  
2 available.

3 Another key element is going to be that it should  
4 function and fit well with the California ISO's market  
5 design in order to make those resources available in the  
6 market as a way of ensuring that the ISO can execute its  
7 responsibility.

8 The Governor has said consistently that resource  
9 adequacy is an obligation that needs to be applied equally  
10 to all load-serving entities. I think we can infer that  
11 means the market participants.

12 And what is important right now is that we move  
13 quickly to define what the market structure design needs to  
14 be, when it needs to be in place, what the transition  
15 strategy needs to be, and that we bring resolution to the  
16 outstanding issues around what counts, how is it deemed to  
17 be deliverable, the issue of Firm LD contracts, whether or  
18 not demand-side resources can be certified in a process  
19 consistent with supply, what the forecasting methodology is  
20 to be used to establish what that criteria is, as well as  
21 when the capacity requirements are imposed, and there's been  
22 discussions about the monthly versus a load profile, a  
23 system-load profile even to the point of coming up with an  
24 hourly installment.

25 There are still some probable discussions around

1 the appropriate mechanism, whether that is a capacity tag,  
2 that has been put forth by a number of organizations; or a  
3 capacity market design, similar to the East Coast, which  
4 includes, for instance, an demand curve, although it's  
5 important we recognize the differences between California  
6 and the function of those Eastern markets.

7 So I am hoping that what comes out of this today  
8 is a consensus, to the greatest extent possible, on the  
9 timing of the issue around ensuring a mechanism is in place  
10 so that the State can acknowledge that it is in compliance,  
11 recognizing that over time we may adjust what those  
12 requirements of compliance are, since it has been discussed  
13 12 months may not be sufficiently brought forward to  
14 construct a plant. Yet it's a starting point for us to be  
15 able to look out into the future and determine what the  
16 appropriate mechanisms are and what steps need to be taken.

17 So, again, I wish I could be there in person to  
18 listen to the discussion. I will be listening in at various  
19 times of the day. But with that I will conclude my opening  
20 remarks and turn it back over to you, Michael. Thank you.

21 CPUC PRESIDENT PEEVEY: Thank you very much, Joe,  
22 for the thoughtful remarks there. And before I turn it over  
23 to Pat Wood, let me just say that there are two PUC  
24 Commissioners not here at the moment.

25 Commissioner Kennedy had another appointment. She

1 will be here at approximately 10:00 a.m.

2 Commissioner Brown is a continent away looking at  
3 biomass projects at the distilleries of Ireland.

4 (Laughter.)

5 CPUC PRESIDENT PEEVEY: For the overflow crowd, if  
6 there is an overflow crowd, Hearing Room A is also available  
7 with video.

8 And now it's my distinct pleasure to turn to my  
9 left, as I said provocatively and turn this meeting over to  
10 Pat Wood, the Chair of FERC.

11 FERC CHAIRMAN WOOD: Thanks, Mike. I appreciate  
12 the warm welcome. It's nice to be back here. We were here  
13 in this Commission about a year or so ago to discuss  
14 resource adequacy. And, more importantly, for me I guess,  
15 historically four years ago this month Nora and I came out  
16 and began the first of our -- with our Commission there's  
17 now been 12 of, across the entire country, what we call our  
18 infrastructure roadshow conferences, where we go out to  
19 different parts of the country, focus on the regional  
20 infrastructure issues there, and see what action items we  
21 come up with, our sister agencies come up with.

22 Four years ago we met in the chambers of the  
23 California Energy Commission in Sacramento. Nora and I had  
24 just come out shortly after joining the Commission and the  
25 must-offer, the West's must-offer/price cap order had just

1       been voted on. And we came out here, met the political  
2       leadership of the state, but importantly for us set down in  
3       the CEC's chambers and with a relatively -- a room about  
4       half as full as this one, discussed infrastructure issues in  
5       California, because it was certainly viewed at the time, and  
6       I think history is proven right, that in that perfect storm  
7       of events going on, one of the big issues, although not the  
8       only issue, but one of the big issues going on that  
9       contributed significantly to the crisis and to its length  
10      and severity was the dearth of infrastructure and the  
11      slowdown in investment that had been made in the state prior  
12      to that time that led to a really tight situation when all  
13      the other factors of that summer of 2000 came into play.

14             And, you know, kind the view of fool me once,  
15      shame on you; fool me twice, shame on me. We decided we'd  
16      go out there and actually learn and walk in there without a  
17      preconceived opinion about what's going on and what happened  
18      and learned a lot.

19             Actually, the focus at that point went,  
20      interestingly enough, to natural gas infrastructure. And so  
21      in one of our presentations that we'll open up with after  
22      the intro panel here, Mr. Wright from our staff will look at  
23      the panoply of infrastructure, "She's Not Just Electricity,"  
24      which will be the focus of what we are looking at today,  
25      both from a natural gas infrastructure issue since that is

1 such an important swing fuel here in this state and from our  
2 projections looking forward will continue to be a  
3 significant fuel in the state.

4 So I'm thrilled that there is a simultaneous  
5 hearing in Sacramento with Joe Desmond and that group about  
6 LNG and the important gas issues that face the state. It's  
7 a great fuel. I come from a state that uses a lot of it, as  
8 well. So how we solve this issue here has implications for  
9 the whole country.

10 I have to say I think after four years I thought  
11 we would be farther along. I thought that we would have a  
12 restoral of a lot of the anomalies that our Commission, this  
13 Commission that's hosting our conference today; that the  
14 Energy Commission; that the two governors that have presided  
15 over this state in that period have identified and  
16 articulated pretty well.

17 And it's a bit disheartening, quite frankly, to  
18 see that we're looking again at, you know, a potentially  
19 tight summer, maybe another two, certainly one summer before  
20 the proposed resource adequacy that Mike Peevey and the good  
21 Commission here have done so much to lead and push forward  
22 in not necessarily a particularly a welcoming climate to get  
23 forward on these things that we need to do to make sure that  
24 the state and the region have long-term energy security.

25 The Commission, of course, has been through a lot

1 of other -- our Commission, the FERC, has been through a lot  
2 of other aspects of the crisis over the last four years in  
3 dealing with picking up the pieces of all the aspects from  
4 refunds, and market misbehavior, and behavioral rules, and  
5 redesigning the markets, and know the pricing and  
6 infrastructure, Path 15. I mean, there's probably been not  
7 a month that goes by that there's not a significant  
8 California issue on our docket a whole continent away. So  
9 please know that our Commission remains committed.

10 And I thank you for the important observation  
11 that, you know, this is a collaborative effort here. And it  
12 truly is and will remain so. But we remain committed to, in  
13 my mind, the three Rs. We remain committed to resources, an  
14 important focus of today's conference. And by that I not  
15 only mean supply resources, but demand resources in which  
16 this state has been a global leader for so many years and  
17 had so much to offer the country and the world on demand  
18 side responses.

19 We remain committed to restitution. Restitution  
20 of the dollars that were overcharged in the 2000-2001 time  
21 period, some of which have begun to flow through but due to  
22 extensive and fair due process required by our laws and by  
23 those of the state, as well, require some time to get done.  
24 And unfortunately with time comes some distance from the  
25 people who suffered the harm. But we remain committed to

1 that process and getting it completed in as fair as possible  
2 way, but also restitution of confidence.

3 I think it's very important for the customers of  
4 the state, as well as of the broader country, to have  
5 confidence in the energy industry and to have faith that the  
6 public's interests will ultimately prevail.

7 I don't think that was a message anybody walked  
8 away from when we were here four years ago that this is  
9 what, in fact, was going on. But it's an important step  
10 that the state and the feds, as representatives of the  
11 public interest, have to do to restore that confidence.

12 But restitution of not only dollars, but  
13 confidence is the important second R.

14 And the third R is the commitment that we have to  
15 rebuilding, rebuilding the market, rebuilding the market  
16 rules. But, most importantly, and I appreciate, Mike, your  
17 remark on that, rebuilding the relationship between our  
18 agency and yours and the other agencies of the state  
19 government that were so frayed during that period in the  
20 early 2000-2001 timeframe.

21 So please know that regardless of who holds the  
22 gavel at our Commission we'll continue to remain committed  
23 to the three Rs and look forward to a productive conference  
24 today to address as much of that as we can.

25 I'd like to ask my friend and colleague, Nora

1       Brownell, for some comments followed by my friend and  
2       colleague, Joseph Kelliher, for some thoughts and comments  
3       as we kick off today's conference.

4               FERC COMMISSIONER BROWNELL: Thank you, Pat. Hard  
5       act to follow as always. But I was thinking when we talked  
6       about coming out here how far we've come and how far we  
7       haven't come.

8               But when we talk about California and people talk  
9       about the perfect storm I think now we have the perfect  
10      opportunity. We have a terrific and strong CPUC with two  
11      great new members, but a really inspirational leader in Mike  
12      Kennedy; we have new leadership at -- I'm sorry --

13              (Laughter.)

14              FERC COMMISSIONER BROWNELL: Well, you know, when  
15      -- said two things. It's didn't say Mike --

16              (Laughter and aside comments.)

17              CPUC PRESIDENT PEEVEY: It's very Freudian, but I  
18      accepted.

19              FERC COMMISSIONER BROWNELL: -- and the CEC with  
20      its leadership, continued strength in John Geesman; our new  
21      board with whom we had a wonderful meeting not long ago at  
22      the FERC, at the ISO; and with my friend Yakout Mansour at  
23      the helm at the ISO, I think we have the opportunity to show  
24      the world that, yeah, we can make mistakes, but we can get  
25      it right.

1           But I think that means that we have to develop a  
2 stronger sense of urgency in resolving what are complex  
3 issues that involve money, which no one likes to step up to  
4 the plate and spend, but the pieces have to fit together.  
5 So we can't have market design on one side and research  
6 capacity on another, capacity markets.

7           When you put the pieces together, and I think we  
8 need to do so soon, because when we look at the  
9 infrastructure we see a strong need for investment. So I'm  
10 excited about what we're going to do here today and hope  
11 that we all leave here with kind of a renewed sense of  
12 excitement about what we can do.

13           One of the things that we were criticized for four  
14 or five years ago was the lack of a knowledgeable team  
15 specific to California and the West. And I want to just  
16 take a moment and introduce our Western team. I was  
17 surprised to learn that a lot of people weren't aware that  
18 we had that. These guys probably know more about your  
19 backyard than you know about your backyard.

20           And we also have three people on the ground at the  
21 ISO. So if you'll stand -- and we also brought some other  
22 staff here. And I'm going to forget somebody, I know, and I  
23 apologize already. But let me first start with the team.

24           On the ground at the ISO, and we thank you for  
25 welcoming them, we have Charles Faust, Saeed Farrokhpay,

1 Katherine Gensler. If you want to stand so people know.  
2 These are the guys to call when you have a question.

3 (Applause.)

4 FERC COMMISSIONER BROWNELL: Jamie Simler, whom I  
5 sacrificed, by the way, for the cause, just an example of my  
6 commitment, worked for me and now heads the Western team, is  
7 probably one of the smartest people I've ever met and really  
8 is committed to making this market work.

9 With Jamie we have John Carlson, J. B. Shipley,  
10 Colin Mount, and David Lingenfelter. So if those of who you  
11 are here would stand. I think Jamie has disappeared, but  
12 get her card at the break.

13 (Applause.)

14 FERC COMMISSIONER BROWNELL: Oh, here she is.  
15 Sorry.

16 And then we have a number of other people here who  
17 also work on Western issues. We have Carlos Clay, Harry  
18 Singh, Jeff Wright, Derek Bandera. And from our Office of  
19 External Affairs Bryan Lee and Mark Whittendon. These --

20 (Applause.)

21 FERC COMMISSIONER BROWNELL: These folks are your  
22 friends. They're smarter than Pat and I and Joe. And so  
23 they are the people to talk to. And I thank them for their  
24 commitment. And we do vow to continue the collaboration.

25 And, Mike, as long as you continue to provide

1 great food and wine we'll be here more often.

2 FERC CHAIRMAN WOOD: Joe.

3 FERC COMMISSIONER KELLIHER: That's a hard act to  
4 follow, too, I have to say. I want to say that I'm glad to  
5 be here, as well, and echo some of what my colleagues have  
6 said that it wasn't too long ago that it would have been  
7 impossible for FERC to sit down with the CPUC and the Cal  
8 ISO and have a civil discussion about electricity policy  
9 matters. And I look forward to doing that today.

10 I think it's possible to have that kind of more  
11 collegial discussion because of changes that have occurred  
12 at CPUC and the Cal ISO. And I particularly want to commend  
13 the leadership of Cal ISO.

14 But it's indisputable that there are problems and  
15 that some problems have remained for some time. I mean it's  
16 a little bracing that five years after the California  
17 electricity crisis we are still worried about the adequacy  
18 of electricity supply in Southern California.

19 And if you look at the Southern California that is  
20 the worst electricity supply situation in the entire  
21 country. So that is -- it's a problem. It's a problem  
22 that's remained and continued.

23 And I hope that today we'll focus discussion on  
24 why that problem exists, why it has remained, and the merits  
25 of the different proposed solutions. And I hope that we can

1 work on solutions in a collegial manner. And I do think  
2 that's a contrast to the way these problems were addressed  
3 five years ago.

4 Five years ago there was a war between FERC, CPUC,  
5 and Cal ISO. And that, in my view, impeded the development  
6 of solutions to these problems and probably contributed to  
7 the crisis. And I think it certainly served to undermine  
8 public confidence in all three institutions.

9 Now I hope that those wars are in the past, except  
10 for LNG siting, which that seems to fit --

11 (Laughter.)

12 MR. KELLIHER: I wasn't going to say it, but I  
13 thought it would come up.

14 CPUC PRESIDENT PEEVEY: I don't know about that,  
15 Mr. Kelliher.

16 MR. KELLIHER: I was going to -- I wanted to be an  
17 optimist, but I thought there is still one area of conflict  
18 of that I have to recognize.

19 But, you know, five years ago there was a  
20 recognition that some of the market rules needed reform and  
21 there were some initial steps taken in that direction. But  
22 of course the crisis interrupted that effort and it's been  
23 largely suspended. And there's been pretty modest progress  
24 towards reform of market rules in the past five years.

25 And I think it's time basically to take up where

1 we left off five years ago and try to finish the job and try  
2 to make sure the market rules in place that assure that  
3 California has a strong energy infrastructure.

4 So I'm glad to be here and look forward to the  
5 discussion. And thank you very much.

6 FERC CHAIRMAN WOOD: Thank you, Joe. Our fourth  
7 and final member, Suedeen Kelly, is in Russia today. I  
8 guess that's the other bear republic.

9 (Aside comment.)

10 FERC CHAIRMAN WOOD: I think it's a republic. But  
11 she sends her -- she emailed me and sends her regards to  
12 everybody and looks forward to -- concerning the issues we  
13 discussed today.

14 There's some great new members here at the PUC and  
15 I'd like to ask them if they have any remarks.

16 Dian Grueneich, from the PUC.

17 CPUC COMMISSIONER GRUENEICH: Thank you. I'm very  
18 happy to be here with both my colleagues from the Public  
19 Utilities Commission as well as the Energy Commission and  
20 FERC and the ISO. And I want to, first of all, say that I'm  
21 very sorry that we won't have longer together. But I have  
22 had a fortunate few months with you and very much enjoyed  
23 your collegiality. And I hope that our paths will continue  
24 to cross in the future.

25 And I feel honored that I already consider that

1       Nora and Joe are good friends, that I've had the ability to  
2       go back to Washington a couple of times already and meet  
3       with them. And I'm happy they're here.

4               And one of the things that I intend to do as a  
5       Commissioner is certainly to keep up regular contact and  
6       discussions with our federal colleagues, that I think that  
7       that's extremely important to do. That I come with a view  
8       that we may end up with different conclusions about where we  
9       need to go, but we need to have a very professional,  
10      respectful dialogue.

11             And then oftentimes if we start off with different  
12      views about where we need to go, if we've developed a  
13      professional, collegial relationship, we can end up with a  
14      compromise that really meets goals from all different  
15      viewpoints. And that's the perspective that I've brought to  
16      my entire professional career and that I certainly bring to  
17      this type of situation where we have the interests and the  
18      responsibilities of the Public Utilities Commission looking  
19      out for protecting the ratepayers of California, ensuring  
20      that they have adequate supplies of electricity.

21             We have the perspective of the ISO also to be  
22      looking out for reliability.

23             We have the perspective of the California Energy  
24      Commission to help in the planning of our resources.

25             And then we have the perspective of FERC that's

1 really looking at things on a national level in trying to  
2 ensure on a national level that we have adequate protection.

3 Each of those agencies and organizations obviously  
4 have slightly different perspectives. And it's not  
5 surprising to me that we are still at this stage with  
6 somewhat different views of how to approach it.

7 So I look at today as an incredibly important time  
8 for all of us sitting here to hear from who are the real  
9 experts out there to tell us what they see as the issues,  
10 what they see as the barriers. So collectively we can try  
11 to being together our responsibilities to work out a  
12 situation.

13 But, again, I come to this Commission saying that  
14 I'm very honored to have been appointed to this position,  
15 but it brings a real responsibility. And I think that we  
16 are all aware of it, that we're here to serve the residents  
17 and the businesses of the State of California and to make  
18 sure that we act and that we act soon enough to have the  
19 type of reliable supplies.

20 The other thing that I wanted to mention is that I  
21 have really pledged as a Commissioner to try to make sure  
22 that we have the infrastructure we need for California. And  
23 that includes not just existing power plants, but also  
24 investment in new power plants and new transmission lines.

25 And so I'm very, very interested in resource

1       adequacy policies for the state that will secure that  
2       investment, that I think that that's been one of the model  
3       areas of leadership for California that we've been willing  
4       to say we will step up to the plate and have the  
5       infrastructure and investment needed. And so I certainly  
6       intend to work to have policies that will encourage that  
7       investment.

8               And, in particular, one of the areas I think that  
9       those of you who know my background know that I am very much  
10      a supporter of renewable development in California. I've  
11      put particular emphasis already and will continue to do it  
12      on looking at what is the transmission line infrastructure  
13      that we need in California to make sure that we can really  
14      develop renewables to the potential that we have.

15             That just yesterday Governor Schwarzenegger, in  
16      really the ground-breaking climate change policy that he  
17      announced, he emphasized that he stands behind not just our  
18      commitment to have 20 percent of our renewables -- 20  
19      percent of our resources served by renewables by 2010, but  
20      he is really pushing us to get to the 33-percent mark for  
21      renewables. That is going to take new transmission lines.  
22      That's going to take a lot of planning and a lot of really  
23      working together. And this is an area in particular where  
24      it's going to take work between FERC and the California PUC.  
25      And I look forward to working with my colleagues at FERC on

1 this area.

2 So I'd just like to close with welcome to  
3 everybody and I look forward to the discussion today.

4 FERC CHAIRMAN WOOD: Thank you, Dian.

5 And the Governor's most recent appointment is John  
6 Bohn. John, we're glad you're here today, too.

7 CPUC COMMISSIONER BOHN: Thanks very much. I  
8 didn't realize that I was coming into a postwar environment.  
9 I'm grateful for that. Reconstruction is always more fun  
10 than the destruction that precedes it.

11 I've spent a lot of time so far in my brief tenure  
12 here trying to get up to speed on some of these issues. And  
13 I look forward very much to the discussions today. It  
14 provides a very good forum with a series of excellent  
15 speakers with a lot of substance. And I'm looking forward  
16 to listening.

17 FERC CHAIRMAN WOOD: Thank you, John.

18 And our colleague, three years ago the Governor  
19 put John Geesman on the CEC. And John, I know, has been  
20 involved in a lot in facility siting. And I have to say is  
21 a credit to both the prior and current administration how  
22 much focus there's been on getting the permitting processes  
23 really streamlined and done. And I know the CEC has a big  
24 role in that, and I appreciate you all's leadership on that.  
25 And I'd like to let you make any opening comments, as well.

1           CEC COMMISSIONER GEESMAN: Well, I thank you for  
2 that. And I certainly welcome you to San Francisco.

3           I share the disappointment that you and Nora  
4 mentioned that more hasn't happened over the past several  
5 years. I think it's comparatively easy for the political  
6 appointees on each of the Commissions to agree on the need  
7 for an accelerated approach to infrastructure development,  
8 but we need to recognize that each of the three Commissions  
9 and their staffs have enormous amounts of institutional  
10 inertia associated with them. It's very difficult to break  
11 through that.

12           The Governor has made, I think, a bold leadership  
13 proposal to try and clean up the permitting process for  
14 transmission infrastructure in California. And I think that  
15 we should take advantage of that leadership to move forward.  
16 A lot of our physical infrastructure requirements are within  
17 the jurisdiction of state government. And I think it's up  
18 to us to clean up our own processes in order to right that  
19 situation.

20           I'd also note that the comment to that Dian made.  
21 The Governor made a very impressive commitment yesterday, it  
22 was a reaffirmation of the same commitment he announced in  
23 the budget documents in January, to carry our renewable  
24 energy program from a 2010 goal of 20 percent to a 2020 goal  
25 of 33 percent. I think that's the way California is going

1 to break through its NIMBY problems in terms of the siting  
2 of new electrical generation.

3 And, as Dian mentioned, that's going to require a  
4 completely new approach to the way in which we addressed our  
5 transmission needs.

6 I think that FERC's litmus for our seriousness as  
7 a state government in addressing transmission infrastructure  
8 should be how well we respond to the Governor's leadership  
9 in reforming our permitting process. And I think the state  
10 should have a comparable litmus with respect to FERC in how  
11 effectively it can respond to the requests that the Energy  
12 Commission, the Public Utilities Commission, and one of our  
13 investor-owned utilities have made to create renewable trunk  
14 line, transmission tariff instrument.

15 We are going to need that type of facility if we  
16 are going to build out our transmission system and develop  
17 fully our renewable resources.

18 Thank you.

19 FERC CHAIRMAN WOOD: Thank you, John.

20 And last but not least, like any good stool there  
21 are three legs. And the three legs in California  
22 electricity that make it work are two Commissions we've just  
23 heard from and the important player, the Cal ISO. At its  
24 new CEO is Yakout Mansour who's also a new father.

25 CAISO PRESIDENT MANSOUR: Thank you.

1           FERC CHAIRMAN WOOD: So congratulations on --

2           CAISO PRESIDENT MANSOUR: Thank you, Mr. Chairman.

3           Yeah, thank you.

4           Just while I was getting ready to prepare my notes  
5           for today, last night I went home. And my baby is about  
6           four days old. And my wife had a shirt on her that said,  
7           "Supply."

8           (Laughter.)

9           CAISO PRESIDENT MANSOUR: And the baby had a T-shirt that  
10          said, "Demand."

11          (Laughter.)

12          CAISO PRESIDENT MANSOUR: And she is from the  
13          industry. I said, "Is that the must offer that you get  
14          soaked with then?"

15          (Laughter.)

16          CAISO PRESIDENT MANSOUR: And I did take a  
17          picture, so for those of you who want to actually see it, I  
18          have it with me. So that would be a good talking speech.

19          But two years ago I was actually in this very room  
20          and I was there speaking to the three Commissions. And I  
21          was actually honored at that time to be the only  
22          non-Californian in the entire agenda. And I think someone  
23          noticed that and did something about it.

24          So today I am really proud to be a part of the  
25          California team. I always admired California's effort in

1 moving things forward, where, in spite of the successes that  
2 we're not quite pronounced in the last few years coming  
3 after the crisis, you know, there's a lot of negative things  
4 that were mentioned and actually forgetting what good has  
5 been done even though it is not enough. But that's a fact  
6 of life. Others can make mistakes and can try and try  
7 again. But when California kind of make a mistake it makes  
8 more news than anyone else.

9 I would like to touch on the three issues related  
10 to infrastructure quickly, from the ISO perspective, and  
11 hopefully will put some kind of focus on the discussions  
12 we'll have for the rest of the day.

13 First, on the resource adequacy, as you all know  
14 California has a particularly low load factor. It stands  
15 today at around 60 percent or so. Therefore, one can argue  
16 that capacity should actually come at a relatively high  
17 price, yet un- -- that is my definition -- yet under the  
18 current market design capacity is treated virtually as a  
19 free product in the current market design.

20 Now this raises concern among investors, and they  
21 are being vocal about it, and will create greater challenge  
22 with each passing summer if we do not address it properly  
23 and promptly.

24 The address these concerns, we considered at the  
25 ISO three of -- some of the following approaches. I will

1 just attach on three that you can take as some of them --  
2 one of them is one end of the book and the other one is the  
3 other book -- the end and maybe some in between.

4 The first approach which President Peevey touched  
5 on is let the energy market handle it. That's one, in  
6 theory, at least one of the approaches. And that's  
7 basically economic grants in the form of payments above the  
8 short-run marginal cost to cover the long-run fixed cost of  
9 capacity.

10 Unfortunately, the limited demand elasticity which  
11 even, in spite of all the efforts to do something about it,  
12 is still very limited in elasticity, the long investment  
13 lead-time and the limited volume of the ISO energy markets  
14 could result in severe scarcity pricing in the short term.  
15 We've been there, and I don't think anyone has an appetite  
16 for this kind of approach. And so from a priority point of  
17 view this particular one did not stand high in our thoughts  
18 of a viable approach.

19 A second approach is to establish an explicit  
20 capacity incentive mechanism, and that's what we refer to as  
21 capacity markets, on its own. And that approach calls for  
22 additional payments, outside of the energy price, based on  
23 targets established by some form of central-planning  
24 criteria or the center-planning entity. And that's what the  
25 PUC is trying to do.

1           The challenge, of course, in this approach is how  
2 those targets are determined and how can we be sure of the  
3 market response to the incentive? We are in a tight  
4 situation. And in designing a market and waiting for a  
5 response the time of waiting is a time of a possible crisis.

6           So when we get to something new and design  
7 something new we really have to be sure that it will produce  
8 the results we like to see.

9           We are in the middle of redesigning the market in  
10 California. And all of you, or most of you, are familiar  
11 with MRTU. If the resource adequacy issue is not resolved  
12 properly before we start that, MRTU will not work and no  
13 market design will work. So that would be a waste. And  
14 that's where the sensitivity is coming from as to how we  
15 approach and what approach we take.

16           We have been monitoring very closely all the  
17 approaches of this type in other parts of the country with  
18 interest. But, frankly, I've yet to see a sure success in  
19 those environments leaving aside the challenges that are  
20 specific to California.

21           The ISO management, and this is a -- by the way,  
22 this is when we say the challenge is not like here, you  
23 know, it's not going to work. But obviously it needs a lot  
24 of work before we say, "Yes, this kind of design and that  
25 approach will work."

1           The ISO management will propose to our Board of  
2           Governors the establishment of a small blue ribbon panel of  
3           experts to evaluate capacity market designs in detail and  
4           determine their suitability for California and to address  
5           the long-term capacity issue of the state.

6           Our goal is to reach a conceptual consensus by the  
7           fall of this year. We don't have a lot of time to spend.  
8           We're not going to spend another year or two at least to get  
9           to conceptual consensus as to what the right design is.  
10          Should there be a capacity market, if we decide that that is  
11          the right one, and what it is, we see that the ISO as the  
12          operator and facilitator of that market.

13          Now the third approach is a transitional approach.  
14          And that is basically to deal with the specific issue that  
15          we see we are facing today, which is shortage. The third  
16          approach is to compel the load-serving entities through the  
17          regulatory framework and possibly state legislation if the  
18          regulatory framework does not apply to some of the entities  
19          to satisfy the long-term obligations. And that's -- when I  
20          say, "long-term," it's well beyond one year -- according to  
21          a set criteria and guaranty of cost recovery.

22          Now there might be -- it might be necessary to  
23          impose some exit-charge or alternate mechanism to protect  
24          the consumers against cost shifting should direct access  
25          resume in a meaningful way.

1           The ISO management believes that this approach is  
2 a workable transitional approach, but this transitional is  
3 underlined. So it is not like we say that let us take the  
4 easy road forever. But even if we design a market today --  
5 if we start designing a market today and it will come to a  
6 conclusion and file it and have approval for it in about a  
7 year or so, and then put it up, and by the time the market  
8 responds, and actually put the steel in the ground, it's  
9 probably going to take another three or four years. We  
10 cannot afford three or four more years of waiting. And some  
11 transitional approach is necessary in that respect.

12           Fourth, something that is dear to a lot of  
13 people's hearts is the must-offer obligation, which is  
14 widely important and necessary in the short term, really has  
15 failed to incent proper investments in new resources. We do  
16 not see it as a sustainable solution, but we do not  
17 recommend lifting it until a workable alternative, even in  
18 the transitional side, is in place.

19           It is the kind of thing that I would say it's a  
20 blessing and a curse at the same time. I must also  
21 emphasize, again, that that the objectives of the MRTU are  
22 not going to be achieved unless that issue is resolved.  
23 That is from a capacity point of view from a resources side.

24           On the second part of the infrastructure, which is  
25 the transmission adequacy side, the annual congestion

1 management cost and inspite of about three and a half  
2 billion-dollar investment in transmission over the last few  
3 years, the annual congestion management cost of the ISO is  
4 steadily increasing and actually reached close to the \$1  
5 billion mark last year.

6 The majority of that is liability must run,  
7 minimum load compensation categories, and the list goes on.  
8 Some are telling me that ISO congestion cost is too high.  
9 Yes, it is. But this phenomena is nothing new and was not  
10 caused by the restructuring of the industry.

11 Generators often ran in every utility I know of in  
12 the vertically-integrated structure inefficiently to back up  
13 transmission deficiencies. But the difference is the cost  
14 is now transparent and people see the actual cost. The cost  
15 is quite significant.

16 Progress in this regard has been hampered by an  
17 old aged debate over whether planning criteria should focus  
18 exclusively on economics or reliability. I, frankly, am  
19 looking for the person who invented that debate to do  
20 something about it. With the latter, which is the liability  
21 seeming to have been adopted as a higher priority. So if  
22 you want to push something forward quickly, you say it's  
23 reliability. If you want to defer it, you say it's  
24 economics.

25 Now, long-term planning leads have to go back to,

1       again, to what it was meant to be. It was meant to be  
2       meeting needs from resources in the future in a reliable and  
3       economic, most economic manner. So economics and  
4       reliability have to go hand-in-hand. And that distinction  
5       of what is in for reliability and what is for economics is  
6       quite strange to me. It has been strange. I've been vocal  
7       about it for the last number of years.

8               Take the reliability must run as an example. It  
9       is contracting with generators to be available to back up  
10      transmission for reliability reasons. That's all that is,  
11      reliability must run. But it is far from cost effective in  
12      most of the cases, if not all.

13             Now is that reliability or economics? Well, let  
14      us debate on it for the rest of our life, but life has to go  
15      on.

16             Now to deal with this issue, the ISO management  
17      intends to develop a more proactive approach to transmission  
18      planning and will present it our board in the near future.  
19      We realize that the PTOs, the transmission owners, do not  
20      have actually all the information they need from us, from  
21      the ISO, to guide their own planning efforts. We intend to  
22      fill this gap very soon. My colleague, Armie Perez, will  
23      speak about that in the upcoming panel.

24             To just to make that work I really plead to all  
25      the regulators in the room to work with us on expediting and

1 streamlining the regulatory process for project siting and  
2 approval. With hundreds of millions of dollars cost of  
3 congestion every year when every year of delay is just one  
4 year too much.

5 It is not the kind of thing, you know, you delay  
6 investment and you're talking about just the interest and  
7 money. Once you've spent the money on this congestion  
8 management tools, it's a fund cost. And that is too much  
9 for consumers.

10 The last point on the transmission that I have --  
11 I sound almost like a broken record for all my career -- is  
12 the West wide long-term transmission strategy. That  
13 continues to be essential to California and actually  
14 probably most, more important to California than anyone in  
15 the West that I know of. And I did not change my mind just  
16 because I'm now in California. You heard me before.

17 The California ISO for the last number of years  
18 invested significant efforts in trying to get a meaningful  
19 regional process going. Knowing that there is a filing by  
20 Grid West with FERC under consideration, I will not get into  
21 too much of the details respecting the process, except to  
22 say that if the road we have been taking for the last five  
23 years does not produce results in the next few months, we  
24 will have to explore other avenues.

25 The last point I would like to bring to your

1 attention is the integrated planning and opportunities for  
2 improvement. With the industry restructuring and the  
3 unbundled, the unbundling of resources from transmission,  
4 somehow the integrated resources planning concept has been  
5 lost and needs to be revisited and reestablished in a new  
6 forum.

7           These are the two bookmarks, which is -- one of  
8 them is build and they will come, and the other end is wait  
9 until they come -- is satisfactory. We need really to find  
10 and to work on what is the proper midpoint.

11           In conclusion I want to quote two famous people.  
12 One of them is a French journalist from the 18th century, by  
13 the name of Joseph Josbel (phonetic). He said,  
14 "Statesmanship is the art of understanding and leading the  
15 masses. It's glory to lead them not to where they want to  
16 be but to where they ought to be."

17           Now in more recent times Jack Welch said, "Leaders  
18 are those who take the people to where they've never been  
19 before."

20           Chairman Wood, thank you for four years of great  
21 leadership.

22           (Applause.)

23           FERC CHAIRMAN WOOD: Thank you, Yakout. I'm  
24 sitting here struck, as I sit in a state where the  
25 Austrian-born movie star is the governor. And I sit there

1 and think the hardest job in America is one that is filled  
2 by an Egyptian-born Canadian here in California.

3 (Laughter.)

4 FERC CHAIRMAN WOOD: We are the world. All right.  
5 I thank you for teeing up some of the very crisp issues here  
6 very succinctly as the leader of the organization that has  
7 to really operationalize what all of us in the regulatory  
8 arena are trying to formulate here to further the public  
9 interest under our charges.

10 So with no further ado, why don't we start as we  
11 always do, in our infrastructure conferences, with Jeff  
12 Wright who is head of our Office of Energy Projects,  
13 Infrastructure Division, giving an overview of the energy  
14 issues facing the state and the region.

15 CURRENT INFRASTRUCTURE AND SUPPLY AND DEMAND

16 MR. WRIGHT: Thank you, Chairman Wood. Given I  
17 have about two minutes, according to the schedule, I'll try  
18 to be quick.

19 My purpose here today is to give a quick snapshot  
20 of California's infrastructure, primarily its electric  
21 infrastructure.

22 California's generation capacity has grown about  
23 16 percent since the year 2001. And the predominant growth  
24 has been in natural gas-fired capacity which now makes up 54  
25 percent of the fuel mix. The only other fuel source to show

1 any relative growth is renewables during that time which  
2 increased to six percent of the generation capacity from six  
3 percent of capacity to eight percent.

4 From January 2001 to April 2005 there's been a net  
5 increase of over 8,000 megawatts in generation capacity in  
6 California; 11,700 megawatts of in-state generation capacity  
7 has actually been added since 2001. Ninety-five percent of  
8 this new capacity is gas-fired. Retirements totaled 3,750  
9 megawatts of capacity between 2002 and the present, almost  
10 all of which was gas-fired. And I should note that  
11 California's neighbors in Nevada, Arizona, and Baja  
12 California added about 13,800 megawatts of capacity over the  
13 same period.

14 Looking ahead an additional 6,000 megawatts are  
15 expected to come online in California by December 2008.  
16 However, this will be offset by over 3,000 megawatts  
17 retirements resulting in a net addition of only 2900  
18 megawatts of capacity.

19 Outside of California, Arizona and Nevada are  
20 expected to add 1500 and 2300 megawatts respectively of  
21 capacity by 2007.

22 And another 900 megawatts is expected to be  
23 available in Utah by 2010.

24 Now of these total generation additions, in-state  
25 and out-of-state in the West, 83 percent will be gas-fired,

1 12 percent coal-fired, and five percent renewable. Coal-fired  
2 generation will be built in Arizona and Utah.

3 Taking a quick look at the age of California's  
4 generation fleet, we see that 17,300 megawatts of the  
5 generation capacity is 30 years or older. This represents  
6 26 percent of California's generation capacity. Ninety-five  
7 percent of these plans are gas-fired and represent almost  
8 half of California's gas-fired generation.

9 The CEC's integrated energy policy report, 2004  
10 update, noted that another 9,000 megawatts of capacity  
11 attributable to aging generation units are at a medium or  
12 high-risk of retirement by 2009 due to their low  
13 efficiencies and high operation and maintenance costs.

14 Even more ominous is that the 6000 megawatts of  
15 this capacity in the service areas of SoCal Edison and San  
16 Diego Gas and Electric, which will face severe energy  
17 shortages in the coming summers.

18 But before leaving generation, I'd like to point  
19 out that natural gas does account for and is expected to  
20 continue to be the fuel that generates the most power in  
21 California.

22 However, California cannot meet all its needs with  
23 in-state generation. In 2002 and 2003 over 20 percent of  
24 California's total power was generated outside of the state.  
25 And this does not include the coal-fired plants at

1 Intermountain and Mojave, which are physically outside of  
2 the state, but inside the L.A. DWP and Cal ISO control  
3 areas.

4           Given this level of imports, substantial in-state  
5 construction of generation capacity would appear to be  
6 needed to meet increasing demands while more transmission  
7 will be needed to allow imports to meet those needs.

8           Turning now to electric transmission, this map  
9 shows projects, including merchant transmission, that are  
10 greater than or equal to 230 kV and have a scheduled  
11 in-service date between now and the year 2014. The projects  
12 on the map represent a total of 856 miles of new  
13 transmission lines, greater than or equal to the current kV.  
14 This represents an increase in transmission mileage of less  
15 than five percent over the next ten years.

16           The WECC lists only 427 miles of new projects  
17 greater than or equal to 230 kilovolts. It would appear  
18 that for the load growth that California has seen more  
19 transmission in the state will be necessary to haul power,  
20 not only from new in-state generation, but to also  
21 accommodate a necessary increase in imports.

22           The completion of the upgrade of Path 15 December  
23 2004 has increased the summer operating transfer limit  
24 between Northern and Southern California from 3,950  
25 megawatts to 5400 megawatts, reducing congestion on this

1 path. However, upgrading Path 15 just changed the major  
2 north/south congestion path to Path 26.

3 A major Western transmission project is being  
4 considered that would deliver more power to California, the  
5 Frontier Project. This project contemplated by the Rocky  
6 Mountain Area Transmission Study contemplates building two  
7 500 kilovolt lines in various combinations that would total  
8 about 1300 miles, crossing Wyoming, Utah, Nevada, and  
9 California. The estimated cost is approximately \$3.3  
10 billion.

11 The Frontier Project can save California as much  
12 as 325 to \$400 million annually thorough access to winds and  
13 clean coal generation. The project could increase the  
14 transfer capability in California by 500 to 3,000 megawatts.  
15 Of course, complementary transmission improvements would  
16 have to be made in California to get this energy to the  
17 market.

18 Now looking at the coming summer, Southern  
19 California is expecting congestion problems in its Southern  
20 California import transmission area around the area south of  
21 Lugo, Path 26, and north of the Miguel Substation. Because  
22 imports are a major factor in meeting the demand of Southern  
23 California congestion has to be closely watched since it  
24 will limited imports into the region. Imports from one  
25 source will necessarily limit the ability to import from

1 another source.

2 This slide shows a seemingly unrelenting rise in  
3 summer peak loads. In every year from 2001 to projections  
4 for this summer, the peak load has increased. The 2004 line  
5 is not on the chart but the diamond you see there shows the  
6 all-time peak load that was set in September of 2004, which  
7 was not due to excessive heat. As we see even a normal  
8 summer this year is projected to set new highs. And it  
9 emphasizes the urgency again to seek a generation and/or  
10 transmission solution in order to satisfy California's  
11 energy demands.

12 This slide has a little deeper focus on the  
13 potential problem area for the summer, Southern California,  
14 namely south of Path 26. We see that SP26 has a strong  
15 dependence upon imports. That is without imports demand in  
16 SP26 will not be met. The chart shows the forecasted demand  
17 and the expected supply. What it does not show is the  
18 capacity requirement, which is demand plus the minimum  
19 operating reserve requirement. If there was a one-in-ten  
20 conditions of summer, that is a summer reasonably hot, the  
21 reserve margins would be 4.2 percent in July, a negative .7  
22 percent in August and 2.1 percent in September.

23 Switching the focus a bit to hydropower, this is  
24 an important component of California's generation both as  
25 native generation and as an import. From the Pacific

1 Northwest this winter we saw mixed hydro results since last  
2 year.

3 The Pacific Northwest saw relatively little snow  
4 this winter. The May snowpack for 2005 is below 70 percent  
5 of normal. And the April-to-September stream flow forecast  
6 for the Columbia River is roughly 70 percent of normal.

7 The Pacific Northwest is a region which is highly  
8 dependent upon hydropower. And hydro constitutes 80 percent  
9 of the generation capacity in Washington, Oregon, and Idaho.

10 California typically imports six to eight percent  
11 of its electricity from the Pacific Northwest. An  
12 increasingly native load and reduced stream flow will limit  
13 the amount of low-cost hydroelectric generation available  
14 from the Pacific Northwest.

15 On the other hand, our good news, is California is  
16 actually awash with hydropower as warm rains and high  
17 temperatures are quickly depleting snowpack and normal hydro  
18 conditions are anticipated for the summer and fall.

19 The 2005 net monthly electric exports from the  
20 Pacific Northwest to California are expected to be between  
21 the 2004 and 2001 levels. I'd note that these are two of  
22 the driest years in the last 45 years. And basically 2005  
23 will make that three of the driest years in the past five  
24 years.

25 California can expect to receive between 65 to 75

1 percent of the amount of hydroelectric generation that it  
2 normally receives from the Pacific Northwest. And on a  
3 critical point if it's warmer than normal in the Pacific  
4 Northwest in June 2005 the Pacific Northwest is expected to  
5 utilize all of its resources to meet its native load.

6 Dry weather is not the only threat to hydro  
7 imports from the Pacific Northwest. The upward trend of the  
8 solid red line indicates energy demand in the northwest,  
9 while the downward trend, the solid blue line, shows that  
10 there is a correlating decrease in the amount of power  
11 available for export to California. This implies that, as  
12 power available for export from the Northwest to California  
13 decreases, California again must either contemplate building  
14 more in-state generation or through added infrastructure  
15 receive a greater amount of imports from the desert,  
16 southwest.

17 Changing gears and taking a look at natural gas's  
18 role in the energy picture, between 1993 and 2005 gas demand  
19 increased by 26 percent, a rate of about two percent per  
20 year. The increased demand was fueled primarily by the  
21 electric generation sector.

22 Electric generation demand for natural gas  
23 increased by 68 percent over this time or a growth rate of  
24 4.4 percent per year. The industrial sector's gas demand  
25 increased by 30 percent or 2.2 percent per year. The

1 electric generation sector's demand now accounts for 31  
2 percent of the total demand for gas in California. And the  
3 electric generation sector's demand will continue to  
4 increase. In order to fuel the demand for new generation  
5 around an additional one-half bcf per day of gas will be  
6 needed for the new plants expected to come online.

7 Now this slide gives you several comparative  
8 statistics on natural gas. But of note here California gas  
9 consumption constitutes 11 percent of the total U.S. gas  
10 consumption but contributes only two percent of the nation's  
11 production, meaning that obviously the vast source of  
12 California's gas comes from out of state.

13 Also 15 percent of the United States imports from  
14 Canada go to California, while 20 percent of U.S. exports to  
15 Mexico leaves the U.S. from the State of California.

16 Taking a look at California's source of natural  
17 gas you see that California is dependent upon pipeline  
18 capacity originating in Canada, the Rockies, and the  
19 Southwest.

20 California has 8.3 billion cubic feet per day of  
21 interstate pipeline capacity that delivers gas to its  
22 borders.

23 However, due to increases in natural gas  
24 requirements in California, as well as in surrounding  
25 states, this capacity may not be adequate to serve

1 California's future natural gas needs. California can  
2 receive 6.8 billion cubic feet per day from the interstate  
3 pipelines with an additional one-half bcf per day from in-state  
4 production.

5 The receiving capacity is below the 8.3 bcf of  
6 interstate pipeline delivery capacity. But currently  
7 California can meet demands that are in excess of its  
8 receipt capacity by utilizing in-state storage.

9 The trend in gas imports from Canada and exports  
10 to Mexico does not bode well for California's gas supply.  
11 Canadian imports to the U.S. as a whole have declined as the  
12 western Canadian sedimentary basins matures and production  
13 flattens. Also a more robust Canadian economy is keeping  
14 more Canadian production at home.

15 On the southern border, notably in Baja  
16 California, Mexican gas consumption is increasing in part  
17 due to new electric generation which can benefit the United  
18 States, specifically California. Hopefully, when Mexican  
19 LNG comes online significant volumes may be exported to be  
20 U.S. and find its way to California. And without going into  
21 any of the merits LNG may help California.

22 A maximum of about six bcf per day may be  
23 available to California from planned LNG import terminals to  
24 be located in California and Baja California. And these  
25 volumes could be used to offset declining Canadian imports

1 as well as declining U.S. production.

2 And I would note, number one, the Baja, the Semper  
3 Shell project, is actually under construction. And, number  
4 two, the offshore terminal, Chevron/Texaco's terminal  
5 offshore Mexico, has gotten all its necessary permits and is  
6 prepared to begin construction.

7 In sum, California continues to grow and therefore  
8 requires more power. In order to meet its power needs a  
9 combination of conservation, demand-side management, in-state  
10 generation, as well as increased transmission to  
11 relieve congestion and to permit increased imports will be  
12 necessary.

13 It would be particularly important to receive  
14 increased imports from Arizona, Nevada, and Baja California  
15 and from more distant states via projects such as the  
16 Frontier Project as hydropower imports from the Northwest  
17 looked more problematic every year. Also with the  
18 continuing bias towards gas-fired generation, California  
19 would be well served to embrace new sources of gas, like  
20 LNG, to meet its rising electricity demands.

21 That concludes my remarks. Thank you.

22 FERC CHAIRMAN WOOD: Jeff, thanks. Before you  
23 step away, the Commissioners and Yakout, any questions for  
24 Jeff on that? We'll just have those available during the  
25 day, and we'll use this information back and forth. Great.

1           Jeff, thank you very much.

2           Now as our final of the opening panels here we  
3           have a presentation from Jim Detmers, the VP of Grid  
4           Operations at the Cal ISO. And Jim is going to talk about  
5           the outlook for this year and next, as well as talk about  
6           some of the Cal ISO grid operations issues that he's seeing  
7           that are germane to what we're talking about today. So  
8           welcome, Jim. Good to see you.

9           GRID OPERATIONS AND TRANSMISSION EXPANSION PLANNING

10           MR. DETMERS: Thank you very much, Chairman and  
11           Presidents, Commissioners, and all. Thank you very much for  
12           allowing me to come up and talk. I am suffering from a  
13           little bit of allergies and hay fever and the like that  
14           happens out in the Folsom area. Hopefully, that doesn't  
15           affect our new CEO and the new boss. And hopefully it  
16           doesn't interrupt the supply chain, because I now know where  
17           the supply has to come from. So hopefully I'll be able to  
18           meet her soon and we'll be able to carry on with keeping the  
19           lights on for this summer.

20           I appreciate the comments, Chairman Wood, with  
21           your three Rs. And as I was driving in this morning, I also  
22           had three Rs. And this is the last day of school for my  
23           children. And so they were all interested in making sure  
24           that they had met their reading, writing, and arithmetic.

25           But my three Rs come in three different factions

1 here. One of those is, as you all know, that I'll always  
2 say reliability. I talk about that in actually the two  
3 forms. There is grid reliability and that is the  
4 responsibility of the California ISO. And there is service  
5 reliability and that is making sure that there is sufficient  
6 resources to be able to supply whatever the demand is on the  
7 system. That's one of the Rs that is on my list.

8 The second of those is risk management. And as I  
9 take a look at what we've done entering into this summer, I  
10 think there has been an enormous effort to make sure that we  
11 are dealing with the financial side of risk. Have we done  
12 enough to make sure that we're protecting customers from  
13 blackouts and the risk of blackouts? I still think there's  
14 a tremendous amount of work that needs to be done that comes  
15 in the form of infrastructure. It comes in the form of  
16 being prepared.

17 And that goes to my third point of being  
18 responsive. As we all know, going back through the energy  
19 crisis, one of the failures, as I looked back, was a lack of  
20 responsiveness that comes in the form of what was happening  
21 in the industry. It comes in the form of the state's  
22 response. And I believe it comes in the form of the FERC  
23 response as well. And I don't think that that's something  
24 that's unknown. But responsiveness is definitely something  
25 that we have to take a look at, especially with the

1 conditions getting tighter.

2 I think there has been an enormous effort  
3 undertaken to make sure that we're prepared for this coming  
4 summer. And so I think we have to take a look, looking at  
5 the grades of how we've actually done. And I think that's  
6 really what this comes back down to is have we made the  
7 grade. Have we made the grade as an industry? Have we made  
8 the grade -- when I talk about that we hopefully are all  
9 looking for straight As, or what-have-you, as my children  
10 like to indicate.

11 Have we made the grade as the State, and the PUC,  
12 and the CDC, and others? Have we made the grade as well on  
13 the FERC side? Have we made the grade as the ISO? I don't  
14 think we have the answers as to whether or not we're going  
15 to be able to see our report cards here, not at this time.  
16 I think the report card is actually going to show up, at  
17 least with regard to some of these grades, at the end of  
18 this summer or sometime during this summer. I think it's a  
19 little bit early to tell whether or not we've made passing  
20 grades, as well.

21 But as far as effort, individual effort, I would  
22 definitely have to say I have seen that improve. And so  
23 with that good improvement, I will have to give that a much  
24 better than a passing grade.

25 As far as teamwork as an industry and organization

1 as an industry, I think there's a lot of work that does need  
2 to be done on that front. So I wanted to start off with  
3 that, because that's really what this all comes back down to  
4 is we have to deliver results. Effort will not mean  
5 anything unless we can actually get to the results that we  
6 need to get to. And so I'm going to give you a -- are we up  
7 there -- a brief presentation.

8 Thank you very much, Jeff, for stealing most of my  
9 thunder. I appreciate that when I can always get up in  
10 front of a crew and someone else talks about Path 26 and  
11 Path 15 before I do. And so when others are actually seeing  
12 that and speaking to that, that means that we are out there  
13 on the education front. People are learning. The industry  
14 is learning, and we are moving forward.

15 Are we moving fast enough? That's the question.  
16 Are we moving fast enough to keep pace with the growing  
17 demand, not only for this summer or 2006, but to be able to  
18 keep the lights on in the long term and make sure that we  
19 can do that at reasonable prices, something that will keep  
20 California, as well as the United States, in the world  
21 market. And I think we definitely have some challenges on  
22 that front with all of our eggs in the natural gas basket at  
23 this point in time.

24 What are we seeing for the summer of 2005? Load  
25 is growing. We see that. How it's growing, where it's

1 growing is significantly different than what we've seen in  
2 the past. We are seeing a tremendous amount of growth come  
3 on, three to four percent, just within the California ISO.

4 Just outside of California in Southern Nevada, in  
5 the Palm Springs area they're still seeing load growth in  
6 some places in excess of eight and nine percent, sometimes  
7 ten percent, just outside of California. That is  
8 tremendous. Most of these areas that are now growing are  
9 very intense of air-conditioning demand.

10 But what we don't have in the way of being able to  
11 respond to this demand, which is only there roughly for one  
12 to five percent of the time out of the year, we have no  
13 control over that air-conditioning demand. The industry has  
14 not moved on that. So demand response is definitely one of  
15 the components that we need to look at as a solution and we  
16 need to get on with that. We need to make it happen.

17 I think you've all seen this before about where  
18 we've been. The unique factors that are included in this  
19 show the reduction in 2000 and 2001. What was that  
20 reduction? That was discretionary load. That was load  
21 coming off with the threats of blackouts. That wasn't just  
22 a matter of how much blackouts that we were actually  
23 implementing. That says that we had at least eight to ten  
24 percent of demand that is actually discretionary out there  
25 on this system. We need to be able to tap that, but that's

1 not the only thing. And we need to move forward with that.

2 Our generation picture and the previous slide did  
3 indicate this. We do have diversity, but probably not  
4 enough, especially when natural gas is setting the price of  
5 electricity and electricity is setting the price of natural  
6 gas. Both of those two things are impacting each other.

7 I don't think that there is an unlimited supply of  
8 electricity. I know that for a fact. And I know there's  
9 not an infinite supply of natural gas, as well. So how did  
10 we get to this condition of the extremely tight supplies?  
11 It really comes back down to some basic facts. And that is  
12 we are retiring very close to what we are growing in the way  
13 of new generation.

14 The fleet inside of California that the ISO  
15 manages is very old. And it will be retiring, as Jeff  
16 indicated in the last presentation. It will be retiring.  
17 We cannot expect to continue that course to hold these 40  
18 and 50-year-old generations.

19 Talking about children, as well I always like  
20 talking about the 40 and 50-year-olds. And I'm not talking  
21 about the people I'm talking about generating facilities,  
22 not the 40-year-old generation, because I have to include  
23 myself now in that the equation. And that just happened  
24 last year, by the way, again.

25 But, anyway, this is a troubling state that we are

1 in right now. We are in a state where investment is not  
2 being made. We do not have clear signals. We do not have a  
3 clear structure in place so that investment can come and  
4 invest in the new generation, new transmission, the new  
5 demand-side programs, all of those things that we're saying  
6 that we have to do.

7 So are we meeting the grade? I think we are  
8 falling a little bit short here at this point.

9 No, I'm not going to back up. Imports, yes, we  
10 are dependent on imports. Luckily for this coming summer we  
11 did what all good engineering firms can do. We increased  
12 capacity using remedial action schemes. We increased  
13 capacity where possible throughout the southern portion of  
14 the system. And we will be stressing that system to be able  
15 to hit those peak demands. It will be stressed.

16 If anybody doesn't think that it gets hot in  
17 summer, you have to take that back. It doesn't rain in  
18 Southern California. Well, that song is now gone, as well,  
19 because they had 30 inches of rain in Southern California.

20 Is the only concern just a heat wave coming on for  
21 Southern California? No. The 30 inches of rain actually  
22 has increased the growth under most of the right-of-ways  
23 throughout Southern California, almost in excess of three  
24 feet of growth that, should we have fires, could present  
25 some problems for us. That will impact our ability of

1 bringing in the power across those congested interfaces, and  
2 it will stress it even more.

3 You've all seen this. And is the capacity enough?  
4 Well, I think this talks for itself. If you take a look at  
5 some of the Eastern markets and what is happening, they are  
6 also coming down in the way of very large margins, getting  
7 closer and closer.

8 The margins as far as resources, transmission, and  
9 any demand-side programs is not sufficient. And it's not  
10 here in California.

11 This is the bottom line. There is no excuse for  
12 this. We have -- we left the energy crisis in 2000 and  
13 2001. It's 2005, and we still have not figured out. We  
14 need to enter into a summer of operation with more than a  
15 409-megawatt margin for a one and two condition. That's  
16 unacceptable. It's unacceptable on all fronts. And we need  
17 to -- there's no reason for it. There's no excuse for it.  
18 The industry needs to step forward and solve this problem.

19 We thought we had a confidence problem or a crisis  
20 of confidence coming out of the energy crisis. Well, I'm  
21 questioning that right now before we actually enter into  
22 this summer or you can look forward into the summer of 2005.

23 The summer of 2006, potentially as much as 1700  
24 megawatts of new generation should be added. However,  
25 there's at least an equal amount that could be retired, if

1 not more. We're still working on the resource adequacy  
2 process, awaiting a decision on that front.

3 And at the ISO, as we get more nervous, that's  
4 when you'll hear, as Yakout indicated, we need to explore  
5 capacity products, a capacity auction, and capacity  
6 requirements. All of those need to be in play. We should  
7 not tease, threaten. We need to work together as a team.  
8 So have we made the grade as working together as a team?  
9 We'll find out.

10 The import picture for 2006, we did increase  
11 capacity for 2005, Path 26, we increased it over 400  
12 megawatts. South of Lugo, same thing, 400 to 600. The  
13 Miguel congestion point, that was increased another 400  
14 megawatts or so. And these are all rough figures. Total  
15 simultaneous import into Southern California was also  
16 increased about 500 megawatts.

17 We are, in effect, taking out the margins of this  
18 system to be able to operate, to be able to keep the lights  
19 on, and keep that supply running. Will we be able to  
20 squeeze out any more for next year? The answer is no.  
21 That's done. So if we are expecting to get more imports  
22 into Southern California next year, that will not happen.  
23 New generation, whatever the generation is that's required  
24 to get these margins back up must be built. And it must be  
25 built between now and next summer. And we need to have that

1 focus right now to make those decisions.

2 I wanted to touch just briefly on the indicators  
3 that should make this move, something that does have a  
4 return. It has a bottom line. As Yakout indicated total  
5 congestion cost about a billion dollars. It was actually in  
6 excess of a billion dollars last year. And it's increasing.  
7 That doesn't take into account the interzonal congestion  
8 coming on the interzonal interfaces on our tie points. This  
9 is only the congestion within California, within the  
10 California ISO control area.

11 Reliability must run, 550 million. Transmission  
12 has to be there for that. Transmission has to be there for  
13 congestion, as well. Is transmission the only solution?  
14 No. Transmission, resources, demand side, and a very  
15 effective market structure. All of that needs to be in  
16 place.

17 And I already talked about the demand-side  
18 programs. I can't say enough about this. But we have to  
19 figure out ways of opening this market. This market is not  
20 open today. And there needs to be incentives. There needs  
21 to be things done to help us fix this one-to-five-percent  
22 problem that were dealing with over these summer months. We  
23 only peaked -- we broke the record seven times last year.  
24 Seven new peaks were generated.

25 If I had a thousand megawatts a week we could have

1 easily accomplished those peaks without any sweating and  
2 without any nervousness in the ISO control room.

3           Going into this summer we should have adequate  
4 resources to meet the demand for a normal condition.  
5 However, if things are adverse, we do not have enough and we  
6 will have to get into the interruptible programs, the other  
7 adverse mitigation steps that we'll have to take.

8           There's many other dynamic factors included in  
9 what we are assessing as we go forward. Our supplies from  
10 the Northwest with the drought condition that's continuing,  
11 this is the fourth or fifth year of drought conditions  
12 occurring in the Northwest. That will have impact on  
13 California. And we are dependent on that.

14           We are also dependent on conservation. If we are  
15 all not coming together with the conservation message the  
16 general public is not going to respond. We all have to be  
17 talking about making sure that demand side and conservation  
18 is there.

19           Again, the industry, if it wants to return a good  
20 report card at the end of this summer, or next summer, or  
21 anything going forward, or it actually wants to graduate and  
22 leave school, and actually go out there and get into the  
23 real world, it has to get active. And it has to start to  
24 focus on 2006 and beyond.

25           And I think lastly -- and this isn't just directed

1 at FERC, but it's also at all the regulators, FERC and the  
2 PUC and all -- we need to provide some principles and  
3 certainty as to what this state of the markets is. And that  
4 will take cooperation of the ISO and the industry. But we  
5 really have to put some principles in places that can guide  
6 the industry. And I don't think we've yet identified with  
7 those principles are in the vision of the future.

8 And so I'm encouraged that we've got new people  
9 onboard at the ISO and throughout the industry, and I think  
10 we can do it. And we just have to put our nose to the  
11 grindstone and start working on this.

12 So with that I'll close the presentation and open  
13 it up for questions.

14 FERC CHAIRMAN WOOD: Jim, on the  
15 second-to-the-last slide you had, could you go -- is it --  
16 can you go into that, or not?

17 MR. DETMERS: Yes.

18 FERC CHAIRMAN WOOD: The second paragraph,  
19 "Physically install capacity, but not contractual  
20 arrangements." Walk me through what that means.

21 MR. DETMERS: What I'm saying there and as most of  
22 you know that have been involved in entering into this  
23 summer operation, every year we do a summer assessment where  
24 the engineers, both of the IOUs, the ISOs, the Energy  
25 Commission this year, the PUC, all got together and they

1 took a look at the physical connection to the system and  
2 made general assumptions on with the import picture is  
3 looking like, to look at the physical portion of the system.

4 What we do not have the capability of looking at  
5 today, and we attempted to do that through a summer  
6 simulation, but I have less confidence in that today than  
7 what I did yesterday based on what these suppliers, as well  
8 as load-serving entities had done in that simulation. But I  
9 have no way of looking at what all of the contractual or  
10 financial obligations are until I get to the day-ahead  
11 market the day before I actually operate.

12 And so since I don't have that until the day  
13 before that's not enough time to react or do something. We  
14 need to have that well in advance of the actual summer of  
15 operation to be able to demonstrate what is actually  
16 committed to serving California load.

17 FERC CHAIRMAN WOOD: Do some of the other ISO RTOs  
18 in the country get that information, or is that a fault  
19 we've got everywhere?

20 MR. DETMERS: I think that's a general fault  
21 across. The eastern interconnection and the other ISOs are  
22 much more dense packed, and there's more openness to the  
23 flows -- or less -- less dependency on the import flows are.  
24 And so given those conditions throughout and the difference  
25 in ours, ours has just come to light sooner than where they

1 are.

2 FERC CHAIRMAN WOOD: On the last slide with regard  
3 to the vision thing, what -- our Commission has done a  
4 number of orders on market design in the past four years,  
5 five years actually. What is it, I mean, what is it, from  
6 your perspective as a grid operator, what principles have  
7 not been laid out on the table? I don't really know that on  
8 some of these things we're in any disagreement with the  
9 state on really the market redesign issues. I know there  
10 are some skittishnesses still about the exact role and  
11 contours of mitigation which I think as a resource adequacy  
12 picture becomes a lot crisper and clearer of the concomitant  
13 mitigation regime that would work, but yet continue to be  
14 pro investment would become clear. But what, from your  
15 perspective, as you put that slide together, were you  
16 thinking is absent? And be brutal and honest in this stuff,  
17 because we need to know, because we always think we're being  
18 so clear; and then you talk to people who are really your  
19 friends and they come say that's a muddled piece of mush.

20 I mean what are you really trying to say here kind  
21 of shocked, but tell me.

22 MR. DETMERS: Yeah. What I'm talking about here  
23 is to get back down to some of the basics. I think SMD, all  
24 of the approaches that we've taken, I think they're great  
25 ideas, but they might have been put out too far, too far in

1 advance of what was realistically achievable.

2 I think we need to look at what are the principles  
3 that we need to step into as we go forward, maybe an  
4 objective one to two years out.

5 FERC CHAIRMAN WOOD: Something prior to MRTU going

6 --

7 MR. DETMERS: Prior to MRTU, yeah.

8 FERC CHAIRMAN WOOD: So basically it's that  
9 timeframe --

10 MR. DETMERS: And --

11 FERC CHAIRMAN WOOD: -- that we're --

12 MR. DETMERS: Well, as well as MRTU, --

13 FERC CHAIRMAN WOOD: Yeah.

14 MR. DETMERS: -- and be realistic about that as  
15 well. So we need to be honest and realistic about what can  
16 be achieved and make sure that we set those stakes and  
17 achieve those stakes.

18 Capacity is definitely one of the things that has  
19 to be defined. We have no capacity products on the books in  
20 the West as we speak. We need to have the products defined.  
21 We need to have the obligations of the capacity identified.  
22 And we need to have -- if there is a residual market  
23 mechanism that's put into place that also has to be defined  
24 realistically and implemented expeditiously.

25 So some of these things need to be enacted

1 quickly, but instead of just putting the stake out ten years  
2 out into our future, we also have to look at the one year to  
3 five years to so on and make those decisions that is  
4 actually going to deliver what we need.

5 FERC CHAIRMAN WOOD: Is the stakeholder process at  
6 the ISO sufficient to be and inquisitive enough to generate  
7 consensus behind those short- to medium-range principles?

8 MR. DETMERS: Yeah, today it's not in that shape.  
9 But we've taken on an initiative with Yakout's direction as  
10 one of his four top principles that we need to look at of  
11 reformulating what goes into our stakeholder process to make  
12 sure that we can get that back on its feet.

13 It was definitely thrown, thrown off the road  
14 going through the energy crisis and everything since the  
15 energy crisis. A part of doing that requires closure of the  
16 past in order to get everyone back to the table again. We  
17 still haven't closed the past.

18 And that goes back to one of your points, one of  
19 your Rs as well that needs to fit in. If we're going to  
20 rebuild and restructure and set this industry on its feet on  
21 solid ground, we really need to close the past and get to  
22 that as soon as possible.

23 CAISO PRESIDENT MANSOUR: Chairman, maybe I can  
24 add to, you know, some of the confusion that we see today,  
25 where people really need some guidance or at least the

1 principles are clearer.

2 Over the last two months I've been talking to just  
3 about everybody I can put my hands on or can agree to talk  
4 to me, whether the IOUs, the generators, the serving  
5 entities, the municipalities, and the agencies, and so on.

6 You go back to pre-crisis, the ISO function has a  
7 major component of it that is running a major market. The  
8 balancing market was a major market. It was about 30  
9 percent or so. And the ISO function was accepted as it has  
10 reliability and it has a market component. So that's how  
11 people perceive the ISO. That's part of their functions.

12 After the crisis we depended more on bilateral,  
13 the majority of it, and the ISO market shrunk to about below  
14 five percent. And we basically were expecting people to go  
15 on contract, longterm, bilateral.

16 So when you get to -- they said, okay, now that  
17 solves part of the problem. Now you get to the longterm,  
18 now contractual -- contracts for capacity. The load-serving  
19 entities will tell you, well, how can I go for 20 years when  
20 I don't know the division that's for retail access. How can  
21 I commit for 20 years of not knowing whether that's going to  
22 be my load or not, especially after they got out of really  
23 some financial difficulties.

24 So they are very nervous about getting into  
25 longterm contracts. So they go shortterm. Now the

1 generators will tell you, well, how can I build iron or put  
2 iron in the ground not knowing what my future is and how  
3 could I get financing. So I'm not going to be able to get  
4 enough financing if I don't have that longterm contracts.

5 Now to increase things further in difficulty, you  
6 get to the must-offer situation, which we are depending on  
7 even now, before even the beginning of the summer, we have  
8 seen days of underscheduling and not enough bidding in the  
9 market, even a slow market, where the ISO had to go to the  
10 must-offer. So it's one of those things they say, please,  
11 don't lift it now.

12 But at the same time having it in, there is  
13 reliance from the load-serving entities on the fact that  
14 there is a must-offer situation. So the lights are not  
15 going to turn off. The generators are, especially the new  
16 generators, they say, I'm losing my shirt because no one is  
17 contracting with me and taking it for granted.

18 And when you get in the circle you almost want to  
19 break it somewhere, where you say that is the break point.  
20 I'm still to find it.

21 So you could see the vision of what is the future  
22 of direct access, what is the role of the ISO, how much of  
23 the ISO market is actually market and the rest is  
24 contractual, what's the combination. All of those things  
25 are kind of details in division that the market is waiting

1 for to make the right investment.

2 CPUC COMMISSIONER GRUENEICH: I guess I have  
3 somewhere between a comment and a question. Maybe it was  
4 you, Pat, who said that I can rely upon being a new  
5 commissioner for about a year to ask questions. So I'm  
6 still going to be doing it. Which is that our governor sent  
7 a letter to President Peevey -- was it -- last year, the  
8 year -- on the need to really move ahead with resource  
9 adequacy.

10 And while I haven't been involved in any of the  
11 workshops and hearings day to day, I'm aware that here under  
12 the sponsorship of the PUC we've had a whole number of  
13 workshops on trying to deal with this issue.

14 And I'm just concerned that the -- not have a  
15 process is sort of -- fails to be coordinated if we're now  
16 going to be starting a process on resource adequacy at the  
17 ISO. And I am fully ready to accept that I don't know the  
18 details of it, but I wanted to say as a PUC commissioner I  
19 see a great need if we're going to sort of move the process  
20 and the stakeholder input from something that was under the  
21 PUC's overview to something now under the ISO, that we not  
22 cause a great deal of frustration to the stakeholders of  
23 instead of we're realistically moving into sort of the next  
24 stage, what we're really doing is bureaucratic turf fighting  
25 and just having, you know, everybody have to go through the

1 process again.

2 Now I've gotten to know Yakout fairly well over  
3 the next -- over the last few months. And I think we can  
4 avoid that, but I think that it's going to be extremely  
5 important that we show coordination among the agencies and  
6 we show that we are not simply going to be repeating  
7 elements that we've already done.

8 And I had a chance to talk with Joe Desmond  
9 earlier this week. And I think it will be very important to  
10 really give sort of the report card of what have we  
11 accomplished over the last year; and that what are the very  
12 precise remaining actions so that there is some certainty  
13 and belief by stakeholders that this is really moving us  
14 forward just as fast as we can.

15 The second element I wanted to just point out is  
16 that wearing my Commissioner stake -- my Commissioner hat  
17 now, I think that from the Commission's viewpoint we're  
18 going to really want to be conscious of are we doing what we  
19 can to divide -- to design systems that will minimize  
20 stranded costs, that I recognize that it is a very real  
21 issue, that we're not able to sit here today and say what's  
22 going to be the future of the core/noncore market in  
23 California. There is some uncertainty.

24 One of the risks that we may well face is that  
25 there are going to be some stranded costs. But especially

1 as I said, wearing my role as a commissioner, looking at  
2 ratepayer impacts, I see that we're going to want to be  
3 centrally involved in thinking through how we can minimize  
4 that risk.

5 MR. DETMERS: I would have to agree with you,  
6 Commissioner Grueneich, on your first point and your second  
7 point. We do not want to travel the road already traveled  
8 here. And I don't think we're saying that at all.

9 This is just to take it the next step, to make  
10 sure that we can have this completion.

11 And, again, there is basically three components.  
12 One is the obligations that we've been working on in  
13 resource adequacy. Then how do we actually accomplish that  
14 mechanism-wise and product-wise. Those are the additional  
15 elements that we still need to move forward on.

16 In the workshops it was very, very clear that we  
17 needed to move forward on those other elements. And so what  
18 we're doing as the ISO is volunteering and stepping up to  
19 that request out of the workshops. We plan on continuing  
20 that coordination. We've been successful to this point. We  
21 can't let that stop. In fact, we need to actually expedite  
22 moving forward all together, as well.

23 We do need to design, on your second point,  
24 systems to minimize stranded costs. I think we first have  
25 out know whether we're in a position where that's even at

1 risk. I think one of the facts that we have in front of us  
2 with a fully-tapped transmission system, if that's the  
3 stranded cost that we're talking about, I don't think that's  
4 even a condition.

5 If we're talking about stranded cost into new  
6 generation, then we have to make those decisions of how does  
7 that actually function with investment into new generation,  
8 especially given the conditions. And I think we've learned  
9 enough.

10 And we have to acknowledge what we've learned  
11 about stranded costs through our previous experience as well  
12 as where we are now in this market. And there is a lot to  
13 learn.

14 FERC COMMISSIONER BROWNELL: I have a couple of  
15 questions. You talk about certainty, and I'd like to drill  
16 down a little more on that with a specific eye towards some  
17 of the things we've heard regarding imports and people's  
18 reluctance to come to this market.

19 What are the very shortterm, this-summer kinds of  
20 things we need to do to address people's unwillingness to  
21 come? There was an article in the Vancouver paper about, I  
22 think, a pretty major player being unwilling to participate  
23 in the market.

24 Have you modeled that? What is the impact if  
25 people really decide not to come and is there anything that

1 we can be doing either individually or collectively to bring  
2 some certainty to the rules that would make this more of an  
3 attractive market, particularly for the next couple of  
4 years?

5 MR. DETMERS: Should we have the shortages,  
6 depending on where the price goes during the shortages both  
7 inside of California and outside of California, I think will  
8 bring the -- the money will drive where the supply goes.

9 However, there are entities in the Northwest that  
10 have indicated that they do not want to do business with  
11 California. And those entities need to be dealt with --

12 (Laughter.)

13 FERC COMMISSIONER BROWNELL: I think that's what  
14 they're afraid of, Jim.

15 MR. DETMERS: Should I be clear here? Anyway, --  
16 I didn't realize I was being like Letterman up here, or  
17 something.

18 Anyway, no, when I speak to that there's two sides  
19 to this. We have to have definitely the buyers engaged in  
20 this to the fullest extent required. Now most of the buyers  
21 throughout California have indicated they're fully  
22 resourced.

23 We just completed the summer simulation, and I  
24 don't have confirmation of that. And so, in fact, many of  
25 the buying sides, not all, so I don't want to just

1       broadbrush everyone, many of the buying sides here within  
2       California have met their obligations, but others have not.

3               Both that side as well as the supply side, to and  
4       including those suppliers to our Northwest that we need to  
5       rely on, some of those were transmitting in excess of a  
6       thousand megawatts each into California last summer. That  
7       is in our physical assessments, not in any financial  
8       assessments as we go forward.

9               California is dependent on those imports, very  
10       dependent this summer, in particular. And so we need to sit  
11       down with those people and work out the issues, and not just  
12       sit back and expect them to come to the market.

13               There has to be steps taken right now to work out  
14       those issues. And so hopefully over the next week the ISO  
15       will be engaged with those buyers and sellers that haven't  
16       met or are not indicating that they are going to be  
17       participating in our markets.

18               FERC COMMISSIONER BROWNELL: Well, candidly, I  
19       hope in your role, as the independent overseer and manager  
20       of the grid that, one, you're not going to let the buyers  
21       tell the story of being fully resourced when they're not. I  
22       mean maybe we need, you know, kind of a little report card  
23       on them. And the public perhaps needs to know who's  
24       fulfilling those responsibilities and who isn't.

25               To the extent that there are shortterm rule

1 changes, we talked about this a couple weeks ago, that we're  
2 prepared to respond quickly in the event that that's needed.

3 So if there are some shortterm fixes, we need to  
4 know that soon. Keep us posted on the conversation next  
5 week. We'll get some folks here. Maybe they could come.  
6 This is not a conversation we ought to be having in August  
7 or September.

8 MR. DETMERS: I agree.

9 FERC COMMISSIONER BROWNELL: A couple of other  
10 questions and maybe, Yakout, you want to address this. The  
11 RMR addiction is just that. It's an addiction, and I'm not  
12 sure how we can wean people from that.

13 And I really -- underscheduling was a huge  
14 problem, when we look back on the market disaster of a  
15 couple of years ago. And do we have sufficient penalties in  
16 place for the underschedulers? Because there were a couple  
17 of chronic underschedules. It wasn't a mistake in any sense  
18 of the word. How can we disincent them from engaging in  
19 that kind of behavior?

20 MR. DETMERS (speaking away from the microphone):  
21 Well, you know what, I didn't -- you are right. My hands --  
22 part of the problem.

23 (Laughter.)

24 CAISO PRESIDENT MANSOUR: That's okay. How many  
25 I'm going to lose, yeah.

1           Right to the point, first, the underscheduling,  
2           it's kind of -- when you say balance a schedule, it's quite  
3           something that you have to qualify.

4           In the day-ahead, the entities give you a balanced  
5           schedule between supply and demand based on their forecast.

6           Now when you come to realtime, our forecast  
7           usually is fairly accurate. And the forecast on the other  
8           end is on the low side, the conservative side.

9           So even though the day-ahead gives you the balance  
10          based on the schedule within the realtime. There are days  
11          here in the summer, a couple of weeks ago, we were ten  
12          percent underschedule, I believe. Is that correct? Okay.  
13          So we would have to go to about 4,000 megawatt from  
14          must-offer.

15          We're going to get to the point where maybe we may  
16          have to go to evaluating whether the schedule is balanced or  
17          not would be based on the ISO forecast, not the entities'  
18          forecast. And if you ask why, well, we'll just show you the  
19          record.

20          The record shows that the ISO forecast has been  
21          very accurate in the day-ahead, while the entities do not --  
22          are not as such. So we would have a case that should meet  
23          our forecast, not yours.

24          So that's one avenue. We hope that we don't go  
25          that way, but that is one possible thing that we'll go to.

1           The other more addiction is -- I would, and I'm  
2 not -- I would never blame anything before me. I'm at the  
3 ISO today, and I will say we'll take part of the  
4 responsibility of the situation of that amount as the ISO.

5           And that's when Mr. Perez is going to talk about  
6 transmission planning, we have to step forward and say:  
7 Here are the transmission plans that the ISO sees that will  
8 remove congestion and remove the need -- or reduce the need  
9 for the RMR every year, in a published plan; and expect the  
10 transmission orders to come forward and say: Here is my  
11 plan to meet it and, if not, we're going to find someone  
12 else who will do it. But we have to take a proactive  
13 approach in dealing with RMR, a responsibility for the ISO  
14 and not just to leave it, because we could -- frankly, even  
15 they themselves don't have all the data to go by.

16           So that's why I'm saying we will take  
17 responsibility and we'll make sure that it gets resolved.

18           FERC COMMISSIONER BROWNELL: Maybe we ought to  
19 also publish the list of people who just don't forecast very  
20 well. That would be an interesting thing to share with  
21 people.

22           CAISO PRESIDENT MANSOUR: Now that's a real mark  
23 on the one, again.

24           (Laughter.)

25           FERC COMMISSIONER BROWNELL: Just one quick

1 observation about the stakeholder process. I think that it  
2 hasn't worked as you would like it to work and it's going to  
3 take some time to get it back on track.

4 One of the observations -- and, by the way, it's  
5 not unique to California. Everybody at various moments is  
6 having a challenge with the stakeholders' process. And one  
7 of the challenges is it takes a long time to get through the  
8 stakeholders' process. And the more dense and complex the  
9 issues, the longer it takes.

10 Given the short timeframe that we have here, I  
11 think like any business, we need to look at different tools.  
12 And we may need to look at ways that we can expedite the  
13 stakeholder process on some critical shortterm issues.

14 And I'm thinking of the response actually of the  
15 state commissioners, the RSE and SPP, who actually put some  
16 models on the table for pricing and didn't wait for the  
17 stakeholder process. They were pretty inclusive, but they  
18 put some models on the table, decided on one, and presented  
19 that to the board.

20 So rather than wait for the models to emerge  
21 slowly and painfully, we might want to have various people  
22 just put some models for solutions on the table and start  
23 the discussion there.

24 Ground-up building is important, but I don't think  
25 there's time in some of these issues to do that kind of

1 ground-up. So that's just different tools. And  
2 stakeholders' process, I think, need to be more flexible  
3 than perhaps they have been. They become bureaucratic  
4 institutions really fast. It's amazing. But, anyway, so  
5 that's just an observation.

6 MR. DETMERS: Yeah. Thank you, Nora. And so I'll  
7 take that as the challenge for the industry, that the  
8 industry needs to come up with some of those solutions to  
9 help us out. To think that we have the only solution either  
10 within this framework or at the ISO, we need the industry to  
11 be engaged, to come up with those solutions and to make  
12 those complete proposals for the industry. So, again, thank  
13 you.

14 FERC CHAIRMAN WOOD: Any more questions or  
15 comments for Jim?

16 Jim, the last years I've known you, you've done a  
17 lot and you've handled it in a very professional manner and  
18 kept, kept the lights on. And you haven't changed a bit.  
19 So keep up go good work.

20 MR. DETMERS: Thank you very much.

21 And I did want to close in one comment. Since  
22 this is the last day of school, we need to put everyone into  
23 summer school here. Sorry about that. But everyone's now  
24 enrolled into summer school, since we don't have the grades  
25 met yet, so. Thank you.

1 CPUC COMMISSIONER GRUENEICH: And is it recess  
2 time now?

3 (Laughter.)

4 FERC CHAIRMAN WOOD: And our recess will be  
5 six-minutes long, folks. So go to the lockers, to the  
6 bathroom and back here in six minutes. And if the next  
7 panel could come forward, please.

8 (Recess taken from 10:59 a.m. to 11:10 a.m.)

9 FERC CHAIRMAN WOOD: Take your seats, please.  
10 While everybody's taking a seat, I will like to reintroduce  
11 Jamie Simler, who's head of our Western Division Region for  
12 Regulation at the FERC. And Jamie will introduce the  
13 panelists for the morning panel.

14 Jamie.

15 SUPPLY AND DEMAND SIDE: INVESTMENT AND INFRASTRUCTURE

16 MS. SIMLER: Right. Thank you.

17 This -- actually our first panel of the day is  
18 going to be looking at supply, investment climate, credit  
19 issues, a whole host of things as to what we need in  
20 California to get investment made.

21 And our panel is going to start with Steven Stoft,  
22 who is going to sort of set the background, if you will, for  
23 capacity markets, resource adequacy. And from there we're  
24 going to invite each panel to give three-minute remarks.  
25 And then we'll open it up to Q&A from our Commissioner,

1 staff, and the audience.

2 So with that, we can get started with Mr. Steven  
3 Stoft. Thank you.

4 MR. STOFT: Someone put my talk on a computer  
5 here, and then during the break they took the computer away.  
6 And I'm not sure I plugged the cable into my computer, but  
7 I'm not seeing it on the screen. Does anyone know how to  
8 handle this? If not, I'll talk without my slides.

9 CPUC PRESIDENT PEEVEY: Go to the next.

10 MS. SIMLER: Oh, we could do that, but Mr. Stoft  
11 was going to give about a 15-minute presentation, kind of  
12 setting the whole framework, so I'd like it for him if we  
13 can wait one minute to see if we can get a slide. If not,  
14 you may have to proceed.

15 MR. STOFT: Okay. Well, does anybody know where  
16 that computer went?

17 Oh, the projector is off. That probably explains  
18 why we're not seeing it.

19 FERC CHAIRMAN WOOD: Can we get the projector  
20 turned on, up there in the back?

21 Okay, he says a couple -- one minute.

22 (Pause in the proceedings to set up the  
23 projector.)

24 MR. STOFT: Well, maybe I should begin. Is there  
25 an opinion on that? Well, no, we don't have everyone here

1           anyway.

2                   CPUC COMMISSIONER GRUENEICH: I'm here.

3                   MR. STOFT: That's mine. They took to that one  
4 and turned off the projector, so.

5                   MS. SIMLER: The man in the booth is -- so maybe  
6 you can start, and then we'll just --

7                   MR. STOFT: I'll just do a -- yeah. I had a  
8 couple of nice graphs here that are going to be hard to  
9 explain without the pictures, but I'll just start and do my  
10 best here.

11                   First of all, I'm an independent consultant. I'm  
12 helping the PUC. And the first thing I should say is that  
13 all these opinions are mine and not attributable to the PUC  
14 or anyone else. In fact, it's quite possible that none of  
15 them coincide with the PUC, so just take this as my own  
16 experience.

17                   I have been working on revenue adequacy for the  
18 last four or five years. When I first wrote about it in my  
19 book -- in fact, the central section of that book was about  
20 revenue adequacy -- no one wanted to listen because we were  
21 having too much generation built and no one thought it could  
22 possibly be a problem. So I'm quite pleased that now people  
23 recognize that it is and will pay attention. And I spent  
24 the last year working in New England on it.

25                   The problem that we face is that the market does

1 not send a signal for adequacy. The market is an energy  
2 market. It is not a reliability market. Adequacy is  
3 equivalent to reliability. If the market could do adequacy,  
4 it could do reliability. And we know it can't, because it  
5 has absolutely no information about what anyone is going to  
6 pay for that.

7 So we have to have administrative inputs that  
8 determine adequacy and use a market to buy the resources,  
9 but the input has to come from the administrators on this  
10 part of the market.

11 I'm an economist. I love markets. I love to have  
12 them work, but they can't do magic. So that's the root of  
13 the problem.

14 The next thing to understand is what is missing  
15 from this market that needs to be replaced. And there's  
16 three payments that come out of a market: The payment of  
17 variable cost. This was on the nice graph. It had good  
18 colors, too.

19 The variable costs are covered. They cover the  
20 fuels costs. Then we have what we normally term  
21 info-marginal rents in economics. That's the money that the  
22 nuclear unit makes when the peaker sets the price, for  
23 instance. The peaker will set a higher price than the  
24 variable cost to the nuclear unit. They will make money and  
25 cover their fixed costs.

1           But then there's a final slice of the equation  
2           which has problems, and that is often called scarcity rent.  
3           And that's the prices which are above the variable cost of a  
4           peaker. And this is the piece that you have to keep in  
5           mind. This is the piece that drives this whole discussion.

6           It's when prices are high enough that a peaker can  
7           cover its fixed cost. That part of the revenue stream is  
8           not controlled properly by the market because when the price  
9           goes above the marginal cost of a peaker, we don't -- the  
10          market doesn't really know where to set it.

11          There's sometimes a little window of opportunity  
12          where there's a little demand-side action, but there's very  
13          little of that. We don't know how to set the price up  
14          there, so we have various methods of doing it, which are  
15          good and useful, but it turns out that that piece of  
16          scarcity rents needs in California to be around \$3.6  
17          billion.

18          You can get that number yourself by multiplying  
19          the cost of a peaker, which I take PJM's number which is  
20          quite a bit lower than New England's, to be cautious,  
21          \$72,000 a megawatt year, multiply it by the amount of  
22          capacity we'd need, about 50,000 megawatts. That amount of  
23          money is in -- should be in the scarcity rents when we have  
24          just the right amount of resources. That \$4 billion --  
25          \$3.6-billion-a-year slice is not well controlled by the

1 market. And in all the Eastern markets they've calculated  
2 it in, it's too low.

3 It's too low by more than half. In New England it  
4 looked like it was about a quarter. In PJM it looks like  
5 it's about a third. In California, the price cap is lower  
6 than back East. It could be even less than that.

7 Now that's the amount of money -- it's not the  
8 amount of money that the market pays all the time, but  
9 that's how much it would pay if we had the right amount of  
10 generation.

11 Now if it's paying a third of what is needed, when  
12 we have the right amount of generation, do you think  
13 investors want to build the right amount of generation and  
14 cover a third of their fixed costs? No. And that's the  
15 problem we're facing, is replacing roughly two-thirds of  
16 that four -- three and -- \$3.6 billion.

17 Interestingly, I've just come into the California  
18 situation. I've read all the literature I can. I found no  
19 mention of the fact that the goal was -- the projector's  
20 turned on. I think I'm --

21 FERC COMMISSIONER BROWNELL: There you go.

22 MR. STOFT: Oh, okay. Wonderful. Hang on just a  
23 second. We're almost there. There. Okay.

24 Here's the slide.

25 FERC COMMISSIONER BROWNELL: Not everybody can see

1 the slides. Are there copies of this anywhere?

2 MR. STOFT: No.

3 FERC COMMISSIONER BROWNELL: Okay.

4 MR. STOFT: I'm sorry.

5 FERC COMMISSIONER BROWNELL: If anybody else has  
6 copies, it would be nice to have them.

7 MR. STOFT: There are simply no copies. I can  
8 give you one.

9 Okay. The top slice is the scarcity rents that  
10 I've just been talking about. There's three things you need  
11 to know about them, and they're shown in the diagram.

12 One is that these rents occur on peak. Until you  
13 run out of peakers you have competition, and the peakers  
14 keep the price down to the marginal cost of a peaker and  
15 they don't cover their fixed costs. These rents only occur  
16 on peak. That's the only part of our market that's messed  
17 up, is the on-peak part.

18 There's about \$3.6 billion. That's the second  
19 thing to know.

20 And they should go to all generators. Well, not  
21 quite. All generators that are there on peak. Now mostly  
22 generators show up on peak because we ask them all to, but  
23 some of them are clunkers and don't make it. They don't get  
24 paid by the energy market.

25 And when we replace the missing \$2 billion, they

1 shouldn't get that money either. They wouldn't have got it  
2 in a good energy market. They shouldn't get it in our  
3 replacement mechanism to handle adequacy, because this \$3  
4 billion, it does more than just pay the rent. It sends  
5 economic signals. You've got \$3 billion of price signals  
6 being sent for performance. If you take that away from the  
7 market, it doesn't work right. Those are crucial market  
8 signals; you don't want to kill them.

9 So those are the tasks that we have to accomplish.

10 Now "mitigation" is one of the terms used to  
11 explain why we don't have enough money there. It's really  
12 more fundamental, but I'll go with that.

13 There's two problems caused. One is that you're  
14 missing the two billion and the other one is you don't have  
15 the right incentives. That's just what I said on the  
16 previous slide, so we'll go on.

17 You've got two solutions. One is you've got to  
18 get load to pay more. They can pay it through higher price  
19 spikes, but that causes trouble. Through an ICAP market,  
20 through longterm contracts that are being pushed here, to  
21 energy options. There's a lot of possibilities. You can  
22 put it back different ways.

23 The other problem is inducing performance by the  
24 generators, getting those price signals right: Options help  
25 you; longterm contracts help you with that because they both

1 put pressure on peak times to perform; and capacity markets,  
2 if they're designed right, can do that. So there's  
3 different possibilities here.

4 A big problem is, and I'm going to be fair about  
5 this, we'll have the generator side later, load doesn't want  
6 to pay this money. That's where you're going to have  
7 trouble in the design. You haven't begun to face that yet.  
8 And that's where it gets difficult. I just went through  
9 this, was grilled on the witness stand. I know all about  
10 this.

11 You're going to have to require load to do this.  
12 That's why it's a revenue-adequacy requirement. And that  
13 takes penalties. Every ICAP market in the East has a  
14 penalty if you don't buy your ICAP. Any approach requires  
15 penalties, even the forward markets, the forward contract  
16 markets where it's never been mentioned, I've just got word  
17 from the people pushing that that they realize they need  
18 penalties too.

19 Okay. If you're going to do this you're going to  
20 have to prove you're right. People are not going to accept  
21 this if you don't and you're going to have to know you're  
22 right. And it's going to have to be politically acceptable.  
23 You're going to have to start thinking about that.

24 People don't like this, so let me get out of it.  
25 So I'm going to repeat what I said at the beginning: Do you

1 really need penalties? Do administrators have to step in?  
2 Can't the market just do it for us?

3 And the answer is no. And this is the one slide I  
4 want everybody to take home and sleep on, because everybody  
5 says they believe this and nobody does.

6 Adequacy and reliability are equivalent. If you  
7 got one right, you'd have the other right. There is no  
8 difference. If the market could solve the adequacy problem  
9 that would be proof it could solve the reliability problem  
10 and tell us how much reliability we really want. But how  
11 could a market do that? It has no information about my  
12 desire for reliability or yours.

13 Have you ever thought of putting a price on it and  
14 has anyone ever asked you to? And if you did put a price on  
15 it, who would you pay?

16 There is no market for reliability. No  
17 reliability transaction is ever made by the ISO. If you pay  
18 them more and say, I want more reliability, they can't do  
19 it. There's no market signal, period. None. The  
20 administrator has to intervene in this decision.

21 The energy market works pretty well. The  
22 reliability market is totally broken. So don't look for an  
23 easy way out here.

24 Sorry. I've been saying this for ten years. And  
25 no one -- everyone says they believe me, and then they all

1 try and find the easy way out.

2 Okay.

3 MR. FLORIO: The microphone.

4 MR. STOFT: Oh, sorry.

5 Okay. How do you tell the penalties are right?

6 There's many penalties -- there's many theories. The loads  
7 have a theory, and many of them: It should be less. And  
8 the generators have a theory: It should be more. And it  
9 will take many, many forms.

10 So the one thing I'd like to mention is the  
11 generators have a theory that capacity is a wonderful  
12 product and they know how much it's worth and how much they  
13 should be paid for it. This is nonsense.

14 (Laughter.)

15 MR. STOFT: No industry pays for capacity. You  
16 don't pay for bread factories, you don't pay for car  
17 factories. The consumer never pays for the factories. Why  
18 do we do it in electricity, because the demand side -- as  
19 Yakout pointed out, the demand side is broken. That causes  
20 the problem.

21 We pay because we have to make up what we didn't  
22 pay in the energy market because it was broken. Not because  
23 capacity has special properties and they deserve money,  
24 okay. So don't listen to that when they bring it up.

25 Okay. Economics has a pretty simple way to go

1 about this. If you have too little capacity, you pay too  
2 much. If you have too much capacity, you pay too little.  
3 That brings it into balance. That's what matters.

4 I'm not going to mention this anymore, but an  
5 important point is that if you do it smoothly, you'll get  
6 rid of the risk and you'll save consumers about half a  
7 billion dollars. You have a huge fringe benefit here if you  
8 pay attention to risk, so please do. But I won't tell you  
9 how now.

10 Okay. Now how do you get from penalties to  
11 installed capacity? Well, there's a missing link. You can  
12 say penalties, you can make penalties, but how do you know  
13 you have the right amount of installed capacity. You might  
14 have too many penalties, too few penalties. How do you  
15 figure that out?

16 Well, there's a standard way to work this problem.  
17 There's a curve, the fixed-cost recovery curve, that is  
18 there in every market. And people don't talk about it, but  
19 it's what runs the markets. That's in blue up here.

20 The fixed-cost recovery curve tells if you're low  
21 on capacity how much money they make. If you have too much  
22 capacity how much money they make. If you have the right  
23 amount of capacity, how much money do they make. This is  
24 the curve that is totally missing from all discussions in  
25 California at the present time. And it's the driving force.

1 It's how you get from penalties, which are necessary, to  
2 investors having the reassurance to actually invest.

3 They calculate how much fixed-cost recovery they  
4 will have in different market conditions and they look at  
5 that and they decide to invest or not. It's that blue curve  
6 they decide on. They don't call it that. They have their  
7 own ways of thinking about it, but that's the curve they  
8 use. And if we don't think about it, there's no way we get  
9 it right.

10 Now do other people think about this outside of  
11 California? You betcha. Okay. PJM breaks the curve into  
12 two parts. The fixed-cost recovery curve comes from the  
13 energy market and from their ICAP market, two pieces.

14 They look at both pieces and it looks like this.  
15 That's the energy part. And if you read that off, you'll  
16 find out that the energy part is only paying \$28,000 per  
17 megawatt year when they believe they need \$72,000 a megawatt  
18 year.

19 So that's their estimate there. They think  
20 they're paying about -- that's a little more than a third of  
21 what's needed there, okay. So they think about this curve.

22 The other part of the curve is their capacity  
23 market curve. You have to add to the first one to get the  
24 full fixed-cost recovery curve. They're trying out all  
25 kinds of curves. They do dynamics simulations. They think

1 a lot about this, okay. That's how they design their  
2 revenue-adequacy requirement.

3 This, the red line here is the one in New England.  
4 That's the sum of the two: Energy and capacity. The red  
5 line is the whole fixed-cost recovery as it changes from low  
6 capacity -- you see it's very high when capacity is low,  
7 very low when capacity is high. It's right in the middle.

8 We worry about the distribution of capacity levels  
9 because if there's a mistake, it gets very complicated. I  
10 won't explain it. It's a high curve. It pays plenty when  
11 we're short on capacity.

12 The judge asked everybody -- this is an exhibit 4.  
13 The judge, she asked, "Show us your fixed-cost recovery  
14 curves." And made all the people in the trial turn them in.  
15 Okay, it was our homework assignment. People think about  
16 this, even the judge, okay.

17 Okay. Any market has one of these. Top-down,  
18 bottom-up, longterm, options. They all have those. You've  
19 got to know what it is. Some of them, it's really easy to  
20 calculate.

21 The New England design makes it as easy as  
22 possible, because you actually just specify that curve and  
23 then you make sure it happens. Most of the other designs,  
24 you just do something else and you got to figure out what  
25 the heck's going to happen. It's a darn hard calculation.

1 No one has started the calculation. No one in California  
2 that I can tell has thought that they might need to start  
3 the calculation. Okay, they haven't thought about thinking  
4 about it.

5 Okay. Why think about these penalties early? Why  
6 not get your design, then think about the penalties later,  
7 because we don't like to think about penalties. Let's  
8 procrastinate. Okay. They're kind of nasty.

9 Okay. The trouble is that whichever path you go  
10 down, whichever approach you take, you might have different  
11 kinds of penalties required by that approach. You might  
12 have to have all hours' penalties and low. You might have  
13 to have few-hour penalties and real high. You might have to  
14 have seasonal ones if you do one design, or annual ones.  
15 That's makes a difference to your trading partners in the  
16 West.

17 You might have to impose them on the load and get  
18 the load, like with forward contracts, to penalize their  
19 suppliers to get them to behave. That's an indirect form.  
20 Pretty tricky.

21 You might not be able to calculate what the  
22 penalties are going to do, what fixed-costs recovery curve  
23 they're going to have, so how are you ever going to prove  
24 anybody got it right? You'd better think about this ahead  
25 of time, because this is the hard part.

1           Okay. Now we get to the suppliers, just to be  
2 even-handed. Okay. They don't like to perform. Of course  
3 the reason is money.

4           It turns out that if you pay for performance, like  
5 an energy market does, then the ones that don't perform  
6 don't get paid. That saves load money. Okay. We  
7 calculated it in New England. It saves them like ten  
8 percent of this all capacity market cost, something like  
9 that. That's why the suppliers don't like this, is because  
10 if the loads are paying less, they're getting less, okay.

11           So that's a little bit of a problem. That's been  
12 partly solved back East. They moved from ICAP. They used  
13 to just pay everybody. If they had a nameplate on their  
14 machine, that was good enough. If it said it was capacity,  
15 you paid them.

16           They went to UCAP. They said, no, if they're  
17 broken down, we won't pay them. Okay. That's performance  
18 based. It's a good step. They took that; they were on  
19 target. But it's not been good enough.

20           PJM is very upset that they're not getting the  
21 kind of machines built. It's not that they're broken down,  
22 but they're not getting the kind of machines in the market  
23 that they want. And they're going to a design where their  
24 revenue resource-adequacy market specifies this type of  
25 machine, that type of machine. It gets detailed, because

1 their incentives for performance were not right.

2 The ISO -- New England is also upset about that.

3 They didn't like the way people performed in the cold snap  
4 and the fact that they hadn't made the right investments.

5 In the West you can't sneak by with UCAP at all.

6 You're going to have to go beyond it, because you've got a  
7 lot more hydro, wind, and pollution limits. And in the East  
8 they can give a 90-percent UCAP to a wind farm that produces  
9 a 30 percent and nobody notices because it's so small,  
10 nobody's ever heard of it. Out here if you try that trick,  
11 there's going to be big trouble. UCAP is not going to hack  
12 it in the West. You've got too many nondispatchable  
13 resources, energy-limited resources.

14 People are thinking about this in California.

15 This is where I want to give them credit. They are thinking  
16 about that and they are worried about that, and that's  
17 absolutely right.

18 You can build in this pay for performance in  
19 different ways. When you move beyond UCAP you could do it  
20 with the option approach. You could do liquidated damages  
21 contracts. They both pay for performance. But the  
22 incentive is based on your price-capped energy market, which  
23 doesn't have as much incentive in it as it ought to have.  
24 It's had its -- it's been sort of defanged, and it doesn't  
25 put on the pressure that it should.

1           With the ICAP market you can actually put in a  
2 full pay-for-performance incentive and restore what is  
3 missing from the original energy market. But you have a lot  
4 of options. As long as you make a good stab at that, you'll  
5 probably be okay.

6           Okay. Market power is the big bugaboo out here,  
7 and we understand why. Good reason. There's two approaches  
8 to market power. Everybody wants -- no matter what you're  
9 designing in California, they think the main thing it should  
10 do is handle market power. And it's important to look at  
11 that. There's two approaches.

12           One is you can mitigate market power. That's the  
13 approach that I was thinking about mainly right now, because  
14 that's what they're used to. And they want to have this  
15 bid-in-the-day-ahead-market requirement that's a lot like  
16 what they have now. And they looked to the East and they  
17 say they all have requirements to bid day-ahead. It's been  
18 completely misinterpreted here.

19           They believe that gives the Eastern markets  
20 control, physical control over their units and they can get  
21 the one they want. It's not true. I talked to the market  
22 monitors back there just to doublecheck. And they assured  
23 me that you can trade -- you can sell your power out of  
24 those markets and nobody touches you, okay.

25           So what good does their capacity market do them if

1       you can't control the capacity? Well, it turns out you can  
2       control the capacity when it really matters. If you have an  
3       emergency, they can recall any of their capacity. New  
4       England has never done that, but they could if they needed  
5       to. But they don't go meddling on a day-by-day basis.

6                Okay. The other approach to market power is way  
7       nicer. Instead of waiting for the disease to develop and  
8       then curing it with some harsh medicine, okay, you prevent  
9       the disease. You can change the design so generators don't  
10      have market power.

11              Longterm contracts put them in a position where it  
12      is not profitable for them to withhold capacity. They don't  
13      have market power. They cannot profitably raise the price,  
14      so they don't do it.

15              So you don't have to mitigate them. You don't  
16      have to screw around with the market. That's the way to do  
17      it. Longterm contracts can do that and the ICAP design, the  
18      newest ICAP design does that beautifully. It's probably  
19      even stronger than longterm contracts. Look to that part of  
20      the mechanism for taking care of your market power.

21              Okay. Oh, darn, now the slide's not working  
22      again.

23              Okay. This is the grand finale, okay. I have to  
24      have some of these artworks on my slides here.

25              The conclusion is: Don't try to reinvent the car.

1 That's what's going on here. You don't have time. Just buy  
2 a car and reinvent the wheel. You're going to have to  
3 reinvent some things for the West.

4 They put a lot of work back East into developing  
5 these things. They made a lot of terrible mistakes for you.  
6 You can learn from them. They're pretty advanced. They  
7 don't have your whole answer.

8 Don't buy a car without an engine. I think I  
9 skipped that slide, but the engine is the sort of penalties  
10 that drives this thing and that people are trying to sell  
11 you schemes that sound like they don't have penalties, they  
12 don't have a driving force in them. Don't buy a scheme and  
13 think you're going to run without an engine.

14 A real question out here, which we don't have to  
15 face in the East, is what about the 20 percent of the  
16 capacity we're going to buy outside our market. Are we  
17 trying to make the whole West resource adequate? What are  
18 we doing outside?

19 In New England it's real clear. We're making a  
20 deal with New York. We buy some of their capacity, they buy  
21 some of ours. We all get the right amount. It's fair  
22 trade, and there's not much of it.

23 Out here it's huge, and we don't have any  
24 cooperative thing going. We don't have an ICAP market  
25 nextdoor that's going to do the same for us, so what are we

1           trying to do with that? You better think about that.

2           The final point that got discombobulated here is  
3           don't -- if you think you want to control your resource  
4           requirement every hour, the whole requirement, which is more  
5           than your load, just re-regulate the market. If you want a  
6           market, just set up an intervention for when there's an  
7           emergency. That's what you need. And then you have our  
8           other power market control mechanisms, but don't go messing  
9           with the market every hour of the day.

10          Okay, that's the end.

11          MS. SIMLER: Great. Thank you, Steve.

12          And now we're going to turn to Mike Florio of  
13          TURN, who I think I saw nodding in agreement on some points,  
14          so we'll wait and hear.

15          MR. FLORIO: Yes. Thank you very much for the  
16          invitation to speak here. I think I know all the folks on  
17          the dias except for Commissioner Kelliher. Pleased to meet  
18          you, sir.

19          TURN is the residential consumer advocate group in  
20          California. I'd like to start out with something that many  
21          of you probably would not expect to hear from me.

22          Now we've talked a lot today about what hasn't  
23          been done, what remains to be done. We're often critical of  
24          what hasn't been done or how things have been done, but I  
25          just want to take a step back and look at the big picture.

1           About three years ago this industry in this state  
2 was flat on its back. We were nowhere. And in those  
3 succeeding three years a lot of things have happened.

4           We've gotten our longterm planning process  
5 reinvigorated. We've got aggressive renewable energy and  
6 energy-efficiency programs going. And we've made a lot of  
7 progress on resource adequacy. We've got one more decision  
8 that has to get out the door, but I think we're almost  
9 there.

10           A lion's share of the credit for that goes to this  
11 Commission, the CPUC, with the leadership of President  
12 Peevey and the cooperation of the Energy Commission, the  
13 ISO, the FERC. But now --

14           CPUC COMMISSIONER KENNEDY: We don't like it.

15           (Laughter.)

16           MR. FLORIO: I think it's -- you know, we always  
17 focus on the things we disagree on and we don't pay much  
18 attention to the many, many things that we agree on. And a  
19 great deal, a great deal has been accomplished.

20           We still have more to do. We've got more hard  
21 work. But I didn't want to let this moment pass without  
22 giving some recognition to what has really been a  
23 significant body of work in the last three years, more than  
24 I thought was really possible.

25           Now the issue here is investment and how do we get

1       it. And I think actually we already know the answer to  
2       that. Longterm contracts with creditworthy load-serving  
3       entities will get new capacity built in this state.

4               Right now both PG&E and Edison are out with  
5       longterm RFOs for new capacity, new steel in the ground.  
6       And while there's a lot of work still to be done on those, I  
7       can say with some relief that there was a very robust  
8       response to those RFOs.

9               There are a lot of people out there willing to  
10      invest in new capacity in California if they can just get a  
11      contract that's sufficient to support the financing of their  
12      project.

13              So it's working. The resource-adequacy framework  
14      that we haven't even finished yet is having the desired  
15      effect. We have to have a framework where LSEs are incented  
16      and encouraged and allowed to enter into longterm contracts  
17      that can bring on the new supply, that can keep the existing  
18      supply that we need. There are a lot of barriers to that.

19              One of the problems that I've been kind of a  
20      broken record about is that the existing resource-adequacy  
21      model only looks one year in advance. That's not enough  
22      time to get resources built. We've got to get that  
23      demonstration of resource adequacy extended out to the  
24      three- to five-year range, so that if we don't have enough  
25      to go around new things can get built in time to meet the

1 load.

2 And there are also some tough questions that both  
3 the CPUC and the FERC will have to deal with in terms of  
4 allocation of costs and benefits of new capacity. If only  
5 one set of actors in the market, the IOUs, are investing in  
6 new capacity, then you've got to take a careful look at the  
7 costs and the benefits and make sure those are fairly  
8 allocated.

9 I think Edison will be presenting you with an  
10 application very soon that will raise those issues and that  
11 will be a very important proceeding.

12 Now what about shortterm capacity markets? I have  
13 to say I'm delighted to see Steve Stoft here. We've worked  
14 together off and on in the past. He's one of the smartest  
15 and at the same time most practical people I've seen  
16 working. And when you can get the theory and the practice  
17 both going, you've really got something.

18 He scared me for a minute with that 3.6 billion  
19 number until I realized in California we're already paying a  
20 lot of that 3.6 billion through the contracts that are  
21 already in place, because we -- if anything, we need to get  
22 rates down in this state, not raise them higher. But I  
23 think we can do that if we get the structure right.

24 How's my time, Jamie?

25 MS. SIMLER: I think you're pretty much up, Mike.

1 (Laughter.)

2 MR. FLORIO: Okay. Okay. Can I just close with I  
3 think the kind of shortterm capacity market that Dr. Stoft  
4 has described can be a useful part of a resource-adequacy  
5 solution. I think it may even be a necessary component. I  
6 don't think it's sufficient. I think we need that longterm  
7 requirement and enabling of load-serving entities to enter  
8 into the kind of contracts that we need to create a stable  
9 market both for consumers and for suppliers.

10 Thank you.

11 MS. SIMLER: And next we've got Gary Ackerman with  
12 the Western Power Trading Forum, who I hope will touch a  
13 little bit on the Western market issues that Steve raised  
14 and a little bit hopefully maybe about the credit issues  
15 that Mike raised.

16 MR. ACKERMAN: We'll try and grab everything.  
17 Steve's presentation was very broad, so I'll try and bring  
18 in as much as I can. A very interesting presentation.

19 Thank you, --

20 MS. SIMLER: In three minutes.

21 MR. ACKERMAN: -- Commissioners and Yakout. My  
22 name is Gary Ackerman. I'm Executive Director of the  
23 Western Power Trading Forum.

24 Today -- well, I guess if -- Detmers, I think, put  
25 it out to you very clearly that, and I quoted it:

1 Investment is not being made. And, you know, if that's the  
2 title of his speech, which it wasn't, but I'll give it that  
3 anyways, then mine is: We're not making the investment  
4 grade in California.

5 In reaching that title let's work on some of the  
6 items I'd like to bring to your attention here today, three  
7 issues:

8 What's the dollar value of investment needed to,  
9 you know, bring California up to snuff?

10 What are the views of competitive procurement in  
11 the state? And the Western Power Trading Forum represents  
12 both buyers and sellers, so we have a unique situation here  
13 of having to represent and wear both hats at times.

14 And what do we need to do and what can you do as  
15 commissioners in your respective commissions to bolster  
16 liquidity in our electric energy markets, because that's  
17 something that's something that's desperately missing.

18 I hope I'll have a moment if not during my talk  
19 later during Q&A to talk about transition periods, because  
20 that's been brought up. And I think my warning here is  
21 beware of transition periods.

22 Joe Desmond testified at the Little Hoover  
23 Commission last week in Sacramento that California needs  
24 three and a half billion dollars of new transmission  
25 investment. And if you add to that the current short

1 positions of the large investor-owned utilities in  
2 California and, you know, reasonably price what that  
3 capacity would fetch, that would be another \$2 billion now  
4 and probably a billion dollars a year for the foreseeable  
5 future. So add it up.

6 The grand total of our infrastructure price tag in  
7 California is almost \$6 billion now and more down the road.  
8 You have to ask the question: Is that a large number?  
9 Well, when you don't have any of the money it's a mountain,  
10 not a hill.

11 It comes out to around \$400 per California  
12 household. So when you put it on that basis maybe it sounds  
13 modest. But whether the number is either large or modest,  
14 the critical question is: How will that money get here?  
15 Whose balance sheet will be pledged, the utilities or the  
16 merchants?

17 Now we, as an organization, believe that the least  
18 cost and the most effective way to develop our  
19 infrastructure in California is through competitive markets.  
20 And that means competitive markets for new resources,  
21 reliability services, and retail electric service. I bring  
22 to mind what Steve had said a few moments ago that markets  
23 can do some things, but not all things. So I'll have to  
24 reconsider that statement in light of his comment there.

25 But we have a shaky investment climate in

1 California and it's in desperate need of reforms, but we see  
2 those reforms forthcoming from many of the dockets that are  
3 before you now at both commissions. That is to say, both  
4 the FERC and the CPUC. There are signs of improvement, but  
5 the growth in the state's population and the economy are  
6 outstripping our ability to catch up.

7 We are cautiously optimistic that California  
8 markets will provide the revenue needed to reward those  
9 parties willing to take the risks. We support a market  
10 design to be implemented at the ISO in the year 2007. And  
11 we also support the PUC's efforts on procurement rules,  
12 longterm procurement rules, and resource-adequacy framework.  
13 Both of those partly in place and more to come down the  
14 road.

15 Mike said that we were only one decision away from  
16 wrapping up resource adequacy. I think we're many, many  
17 decisions away from wrapping up or getting to a suitable end  
18 point, and maybe that's just the sobering thought to  
19 consider.

20 But let's get to the point. Without an upside for  
21 investors there's no reason for them to come to California.  
22 If we are able to -- or if we are able to attract  
23 investment, then we can move beyond the old way of doing  
24 things, and I call that the expensive way. The expensive  
25 way, you know, has its proponents. You'll hear from them

1 today. You always hear from them.

2 Yet the proponents have no response to the  
3 evidence we have shown repeatedly, since 1988, that even  
4 with the price explosion during the energy crisis, the  
5 market price of energy and ancillary services would have  
6 saved consumers in this state \$34 billion.

7 You know you compare that \$6 billion investment to  
8 the savings that could have been had, and it looks fairly  
9 modest.

10 Competitive energy markets work when there is  
11 enough volume, or what we use, the term "liquidity." When  
12 there's many buyers and sellers to transact in an open and  
13 transparent platform. That is how consumers get price  
14 discovery at the lowest possible rates. But volumes in the  
15 West are only slowly growing, recovering from the steep  
16 decline in 2001.

17 We believe there are three things that both of  
18 your commissions can do or at least consider in terms of  
19 sustaining growth of liquidity in the energy markets without  
20 considering capacity markets, which will probably be a  
21 separate topic of today.

22 First we need longterm, multi-year transmission  
23 rights which are essential to hedge the uncertainty of  
24 delivery costs from the source to the load.

25 Now FERC just issued a white paper on longterm

1 transmission rights to discuss the relative merits of two  
2 competing systems. One being physical scheduling as opposed  
3 to utilizing a congestion-management scheme. Whereas the  
4 former provides stability and certainty, it does so at an  
5 enormous opportunity cost, because transmission sits idle  
6 and remains underutilized.

7 We need to squeeze more juice out of the  
8 transmission system. Therefore, we believe longterm  
9 transmission rights with a suitable congestion management is  
10 the best medicine to help this problem along.

11 Second, we need well-defined trading hubs. This  
12 is a small item that sometimes gets shoved aside. It was  
13 attempted by the ISO as a transition as well as in its  
14 market design. But, to be honest with you, I could not tell  
15 you what the trading hub price formula is going to be.

16 And, as a result, the traders out there can say,  
17 I'm not willing to sign any contract going out two years or  
18 more because I don't know how California's going to price at  
19 the hub. I don't even know what their hubs are.

20 Now that doesn't mean that we're not working and  
21 trying as hard as possible to get some answer to that, but  
22 we do need a speedy resolution there. Please pay attention  
23 to that because trading hubs are needed now for traders who  
24 want to do deals down the road. If you want to have  
25 longterm agreements, the only way you can do that is

1 sufficient transmission with longterm hedging instruments  
2 and also with hubs that are well defined and you know how  
3 the prices are going to be calculated.

4 Finally, we point to the regulatory overburden.  
5 It's been noted here in many of your opening comments. The  
6 must-offer obligation, the price caps, and other items like  
7 that. We simply observe the number of firms that are  
8 unwilling to trade in the West or severely limited their  
9 risk exposure if they do trade. They are keeping an eye on  
10 us, but standing in the wings waiting for a better day.

11 Regulatory risk simply dampens the volume. If  
12 more power were traded, then it staggers the imagination to  
13 think about how much lower average prices might be and  
14 uncertainty reduced.

15 The number of suppliers selling longterm,  
16 fixed-price energy contracts would go way up and the average  
17 price to consumers down.

18 Thank you for your time, and I look forward to  
19 answering your questions later.

20 MS. SIMLER: Thanks.

21 Brian Chin with Smith Barney Citigroup.

22 MR. CHIN: Hi. Thank you. And I want to express  
23 my appreciation for giving me the opportunity to speak. I'm  
24 the Energy Merchant Equity Analyst, so I cover the IPPs with  
25 Smith Barney. And my colleague Greg Gordon is the Electric

1 Utilities Analyst.

2 We both look at the California market. And as we  
3 followed California over the last few years, the first  
4 comment I'd make is that the regulatory environment is  
5 moving in the right direction. We've seen a number of  
6 initiatives. We've met with several of you many times to  
7 get a sense that we think and we think investors also  
8 believe that the regulatory environment is moving in the  
9 right direction, but here comes the big "but."

10 I think the sentiment on the street with the  
11 investors that we talk to on a regular basis as the movement  
12 is progressing too slowly.

13 It is my opinion that the lack of a definitive  
14 market structure here on the interplay of a lot of these  
15 issues has made it so that investors are having a tough time  
16 really swallowing what the situation will be, especially  
17 with the looming '06 and '07 crisis that we all pay  
18 attention to out of the CEC's forecasts.

19 I think that it creates a lack of certainty around  
20 the asset investment process. And now there's a little bit  
21 of frustration as to are our generation investments going to  
22 be rate-based, are they going to operate in a more  
23 market-defined environment? What are the various incentives  
24 that the IOUs have in order to contract with IPPs versus  
25 build it themselves? Is that a really fair and balanced

1 decision that they have?

2           These are all questions that come up in investor  
3 discussions that we have on a regular basis.

4           And there's also a perception that the pace of  
5 checking whether there's a lower-of-cost or market-type  
6 situation here slows down the process a little bit too much.

7           What we can say is that with the issue of capacity  
8 markets, there is a very active interest among a lot of  
9 investors over what's going on back East. We wrote a report  
10 on capacity markets in April on PJM, and we got a lot of  
11 interest out of it.

12           When you explain the logic of reducing volatility  
13 in the wholesale market through incentivizing generation  
14 reserves to be maintained, it clicks with a lot of  
15 investors. You have the perception, and my opinion is this  
16 as well, that when you have an increased amount of reserve  
17 margins that are incentivized to be in place you lower  
18 volatility and, correspondingly, lower the costs of capital.

19           And any time you look at any other heavy industry,  
20 heavy commodity-sensitive industry that requires a lot of  
21 capital, you tend to find that there is a need for low costs  
22 of capital for appropriate financing.

23           One of the opinions I have is that it's very  
24 difficult to implement this type of structure regardless of  
25 how necessary it is, unless you're at the mid-cycle of

1 expectations. So when you're looking at an oversupplied  
2 market, you're going to have a lot more political opposition  
3 that basically says we've got enough reserve margins here;  
4 we don't need this type of market structure.

5 When you are in a short situation, like what we're  
6 facing here in California, I think it's very politically  
7 difficult to argue for an additional rate increase on top of  
8 what will be very high power prices.

9 So I think California might be in a little bit of  
10 a bind here and I think there are a lot of investors who  
11 feel the same way, so I'm not sure what the solution is, but  
12 there is that perception out there.

13 In my mind I think a longer-term capacity market  
14 option makes sense. And I'm just echoing now the sentiment  
15 of a lot of other folks, a lot of the other speakers here.  
16 But when we looked at PJM's market, when we looked at the  
17 ICAP proposal, at least in my opinion I think some  
18 forward-auction process that allows for construction-build  
19 signals to be done with a sufficient amount of time just  
20 makes a lot of sense.

21 I think that the RMR solution does address some  
22 level of revenue certainty, but the problem is that you  
23 don't have any price transparency around that process and  
24 it's widely perceived among investors as a Band-Aid  
25 solution. And it just contributes to the lack of some sort

1 of market structure that can be counted on and relied upon  
2 and ultimately invested on.

3 So to summarize, I think there's a sentiment that  
4 we need to have a little bit faster pace in terms of a  
5 development of a market structure. California is moving in  
6 the right direction, but we do see that '06-'07 crisis  
7 looming. And I think there's a little bit of hesitancy from  
8 the investor base out there as to how that will impact your  
9 decisions in the next 12 months.

10 And we do think the capacity markets are the right  
11 way to go. It just makes a lot of sense with the various  
12 investors that we talked to, but I think California will be  
13 in a tough position given that they are generation short as  
14 opposed to having a few more years of luxury, like the  
15 Eastern RTOs.

16 And with that I'll stop and look forward to  
17 answering your questions and entering into a dialogue.

18 MS. SIMLER: Great. Thanks, Brian.

19 Next we have Steve Schleimer with Calpine.

20 MR. SCHLEIMER: Thank you. Again my name is Steve  
21 Schleimer, and I'm very pleased to be here before you this  
22 morning.

23 I actually do have copies of some of the materials  
24 I'll be using, which I'd like to bring up and hand to you  
25 all or...

1           (Handouts distributed to the Commissioners.)

2           MR. SCHLEIMER: Just to give you a little bit of  
3 background, Calpine is an independent power producer with  
4 about 30,000 megawatts in operation. In California we  
5 operate about 5200 megawatts, representing about close to  
6 ten percent of California's peak and representing over a \$5  
7 billion investment.

8           Calpine's Geysers Facility is the  
9 largest-producing geothermal facility in the world.

10          During the last shortage in California in 2000 and  
11 2001 two new Calpine power plants came online with about  
12 1100 megawatts in time for the 2001 summer peak. Without  
13 these units there almost certainly would have additional  
14 blackouts during that crisis.

15          Now it's 2005 and again the state is on the verge  
16 of significant shortages on its electrical grid, especially  
17 in Southern California, as it's been well documented by now.

18          And again Calpine is bringing on another two power  
19 plants, this time for about 1250 megawatts. These two  
20 plants actually, for those in the audience, the handouts and  
21 those who have seen me over the last couple of months know I  
22 don't go anywhere without pictures of Metcalf and Pastoria.

23          These two power plants that are coming online, the  
24 green one is the Metcalf Energy Center. It's in South San  
25 Jose and it's about 600 megawatts. It just went commercial

1 last week.

2 The one in blue is the Pastoria Energy Facility.  
3 The first part of that is online and commercial. The second  
4 part is entering commercial operation next month.

5 Even though Calpine currently has no capacity  
6 contracts associated with these facilities, these plants are  
7 being included in the ISO summer 2005 analysis. And without  
8 them we think that Southern California, without the Pastoria  
9 Facility, would be in far more serious trouble.

10 This panel is about how to provide signals for new  
11 investment. And in our opinion, it's really about one  
12 thing, about doing one thing, and that's providing assurance  
13 to investors that they have an opportunity to recover their  
14 investment. This could be done through the energy market.

15 As we heard about, you know, there's politically  
16 -- thorough a centralized capacity market, through bilateral  
17 contracting. It could be done through ISO RMR contracts.  
18 You know, it could even be done by ratebasing generation. I  
19 mean there's a lot of people who have different thoughts on  
20 how to solve this. But whatever your solution is or your  
21 religion is on, you know, how you want to approach it, if  
22 investors don't think they can get their money back, they're  
23 simply not going to invest.

24 So, you know, what is the fundamental problem that  
25 I think you need to fix? It's the -- I call it: The

1 why-the-buy-the-cow-when-you-get-the-milk-for-free problem.  
2 It's the MOO, it's the must-offer obligation taken together  
3 --

4 (Laughter.)

5 MR. SCHLEIMER: -- with the price caps -- the  
6 must-offer obligation, the MOO taken together with the price  
7 caps, gives load-serving entities currently a free-call  
8 option on generation capacity. Then, in addition, once the  
9 call -- once my capacity is called on, I have to provide my  
10 power at a mitigated rate.

11 Load-serving entities thus don't have an incentive  
12 in this structure to purchase capacity because they get it  
13 for free. And the price mitigation is they'll never really  
14 pay me the value of the service I'm providing anyway, even  
15 if it has to be provided in an emergency.

16 Basically what it means, and how it's being  
17 implemented now, is that load-serving entities can enter  
18 into what's called Firm LD contracts from some amorphous  
19 plant somewhere. And, you know, I brought a copy of the EI  
20 Master Agreement, which is one of the Firm LD contracts that  
21 folks talk about.

22 And, you know, so load-serving entities can enter  
23 into Firm LD contracts from some amorphous plant out there.  
24 And the reason why they can do that is because the  
25 load-serving entities nor the marketer, in my opinion,

1 really need to worry much about whether the power from this  
2 amorphous contract is deliverable or not, because when push  
3 comes to shove they know that as a result of to the  
4 must-offer obligation and the price caps they get at this  
5 for free. So they can buy this and they can get this and  
6 don't have to worry about whether the capacity's going to be  
7 there or not.

8 So, you know, the  
9 why-buy-the-cow-if-you-can-get-the-milk-for-free is a problem.  
10 Now what is the solution?

11 Over the longer term, as we heard about, it's implementation  
12 of the resource adequacy, derivation of a capacity market,  
13 definition of how retail markets are going to work.

14 The PUC has gone a long way in developing the  
15 longterm procurement policy, but I think we need to realize  
16 that it's going to take several years to get to the end  
17 state.

18 I think you're going to find the current  
19 mitigations, the must-offer, the price caps, and all the are  
20 going to be slowly phased out as you start to see these  
21 other mechanisms start to be phased in.

22 And so, you know, the question is, is what to do  
23 in the transition. And I think what we need to do in the  
24 transition is one of three things. And that is if a  
25 generator is counted on by the state, or the ISO, or a

1 load-serving entity for providing a capacity service and it  
2 doesn't have a contract, there's three things that need to  
3 get done.

4 One is the utility needs to enter into a contract  
5 or the load-serving entity needs to enter into a contract.

6 Now there are issues about cost allocation there,  
7 because load-serving entities and utilities say they've done  
8 their fair share, others haven't done their fair share in  
9 getting local capacity. And, you know, I think that's a  
10 somewhat valid argument. And so the PUC I think has to deal  
11 with the cost-allocation issue.

12 If that's not going to be done in a timely manner,  
13 I think the ISO can enter into contracts. Expand the  
14 definition of RMR to include units that are needed not only  
15 for local reliability but for system-wide reliability needs.

16 Three, if you don't have load-serving entities  
17 entering into contracts and you don't have the ISO entering  
18 into expanded RMR-like contracts, I think the FERC needs to  
19 think about approval of capacity-based payments for the  
20 capacity services that these generators, especially, you  
21 know, like the Pastoria Facility that are actually providing  
22 a capacity service, that there should be some kind of  
23 capacity-base payment for that.

24 And, you know, just I'll wrap up by saying, you  
25 know, what I don't think is acceptable is to have

1 load-serving entities, you know, continue to rely on the  
2 must-offer, you know, to basically get the free capacity and  
3 so that they don't have to end up, you know, buying the cow.

4 So I look forward to any questions or comments.  
5 Thank you.

6 MS. SIMLER: Thanks, Steve.

7 And now we'll hear from Pedro Pizarro,  
8 load-serving entity, SoCal Edison.

9 MR. PIZARRO: Load-serving entity and utility, the  
10 double whammy. Good afternoon and thank you, the  
11 Commissioners and the staff, for inviting me.

12 I am Pedro Pizarro. I'm Senior Vice President for  
13 Power Procurement at Southern California Edison.

14 And there has been a lot of discussion about both  
15 the end state and the transition. I'm going to focus on  
16 four messages today that are really around the transition to  
17 a longer-term framework.

18 First, as we heard from Yakout Mansour and others  
19 earlier, CEC and the ISO have all concluded that new  
20 capacity is needed, particularly in Southern California for  
21 2006 and beyond.

22 As Edison we continue to target filling our  
23 requirements for power through procurement; open fair,  
24 transparent competition. That's typically been from  
25 existing resources.

1           And, for example, we're going to be going back out  
2           to market probably in the next few weeks to launch an RFO  
3           for contracts under five years for our bundled customer  
4           needs. But we also recognize that our customers, along with  
5           all SB 15 customers, will be affected if there are  
6           insufficient resources to meet the needs of any one LSE.  
7           One, to connect the network. And, if anybody has  
8           deficiencies, the whole network is affected.

9           Second, as Yakout also said, we lack a market  
10          framework that will get the new generation developed without  
11          longterm contracts from load-serving entities. Under  
12          current market conditions, and I think, you know, we heard  
13          this from others, merchant generators and their banks  
14          typically will require longterm load-serving entity  
15          contracts to invest in new plants.

16          Now, moreover, while the PUC, as we've heard, is  
17          exploring establishing a capacity-making framework, this or  
18          any other longterm solution is going to take years to  
19          implement. Yet we need the capacity sooner than that. We  
20          need it now or certainly as early as next year.

21          It will take time to develop a market structure  
22          that can allocate costs fairly across all LSEs. They needed  
23          exists resources and incentivized development of new  
24          resources when they're needed.

25          So we at this point at Edison are very focused on

1       how we work during the transition period to make sure that  
2       the lights stay on for all customers, not only our own but  
3       everybody on the network.

4               A third point.  SCE, as Mike Florio alluded to, is  
5       willing to enter into longterm contracts provided that the  
6       cost and benefits of such contracts are allocated fairly to  
7       all SP15 customers who are benefitting from these.

8               Now to address the reliability concerns expressed  
9       by the CEC and the ISO, we issued an RFO for new generating  
10       resources in SP15 on April 22nd.  This RFO solicits offers  
11       for up to ten-year PPAs tied to specific new generating  
12       facilities that are deliverable to SP15.

13               Now such new plant contracts will likely carry  
14       higher costs than contracts with existing resources  
15       amortizing in this environment the investment costs over a  
16       ten-year contract.

17               Now it would not be fair for SCE's bundled service  
18       customers to be the only ones paying the higher costs for  
19       new plants needed to maintain reliability for the entire  
20       system.  All SP15 customers should bear their fair share of  
21       the costs and receive their fair share of the benefits.

22               Now exit fees for future departing load will not  
23       suffice in this case because they will still allow an uneven  
24       cost allocation between our current bundled customers versus  
25       the other LSEs' current customers.  We really worry about

1       how we make sure that the entire system is paying for the  
2       insurance needed.

3               Now our proposal is intended only as an interim  
4       approach until a market framework is finalized and  
5       implemented that can equitably allocate to all customers  
6       these costs for longterm system reliability and support  
7       developing the resources.

8               A fourth point. We will ask FERC to authorize  
9       through a FERC's jurisdictional charge recovery of the net  
10      costs of any longterm contracts signed out of this RFO from  
11      all SP15 customers. This will result in allocating the cost  
12      of bundled service, DA, community choice aggregation  
13      customers of the IOUs, and the customers of nonIOU  
14      participating transmission owners, nonPTO utilities, and  
15      other transmission users serving load and SP15.

16              With that in mind let me describe our next steps.

17              SCE is filing today an application with the CPUC  
18      requesting consideration of any contracts signed through  
19      this RFO process and requesting that the CPUC support at  
20      FERC SCE's proposal to allocate the incremental costs  
21      associated with the longterm contracts to all SP15  
22      customers.

23              Now SCE will also be requesting to the PUC that in  
24      the event that FERC for some reason does not authorize such  
25      recovery, a CPUC order allow upfront the allocation of the

1 net contract cost to all SP15 customers within the CPUC's  
2 jurisdiction.

3 Now SCE would expect, given the timing required,  
4 probably expect a decision from the CPUC by year end. And  
5 if the CPUC approves our request, we would then be in  
6 position to make a FERC filing in early 2006.

7 Although PUC jurisdictional cost allocation would  
8 not cover all SP15 customers and is, therefore, less fair to  
9 those paying, we are going through the CPUC process first  
10 for a couple of reasons.

11 First, we understand that with such a unique  
12 proposal and such a transitional proposal, FERC may well  
13 want to see state level endorsement of this transitional  
14 approach. And we think the way to support that would be the  
15 form of CPUC action before considering the proposal.

16 And so, again, we'd want to make sure that the  
17 CPUC agrees with the option we're teeing up. If they reject  
18 it, we will, of course, you know, abandon this proposal.  
19 But if the CPUC endorses it, then we'd be in position to  
20 demonstrate to FERC that there is a state need being met.

21 Now in addition we would rely on the CPUC level  
22 approval by the end of the year to make final commitments to  
23 generators offering to build new plants as early as summer  
24 2006. Otherwise, the longterm contracts would not be able  
25 to go into effect and the option for new 2006 resources

1 would not be viable.

2 We recognize that this proposal has elements that  
3 can and will be criticized. And, quite frankly, we're  
4 probably going to share some of this criticism. This is not  
5 a perfect approach by any means, but it is the best option  
6 that we could develop in short time to make sure that we at  
7 least are teeing up a real option for the Commission to  
8 consider, if indeed we are all concerned about reliability  
9 throughout SP15 as early as 2006.

10 Again, we don't view this as any template for the  
11 longterm. And we view this only as a transitional approach  
12 that can buy the state more time to develop a better  
13 longterm framework.

14 With that I'll stop and thank you again for the  
15 opportunity to speak today and address any questions later.

16 MS. SIMLER: Curtis Kebler.

17 MR. KEBLER: Commissioners and Mr. Mansour, good  
18 afternoon. My name is Curtis Kebler. I'm a Vice President  
19 in the U.S. Power Trading Group at Goldman Sachs. My  
20 responsibilities include monitoring and providing advice  
21 with respect to developments in power markets in California  
22 and the Western region.

23 As background, Goldman Sachs currently owns  
24 approximately 4300 megawatts of electric generation  
25 capacity, most of which is located in the Eastern U.S.

1 Goldman Sachs also recently announced the acquisition of  
2 Zilkha Renewable Energy, one of the nation's leading  
3 independent wind energy development companies.

4 In addition to the ownership of renewable and  
5 conventional electric generation resources, Goldman Sachs,  
6 among other things, also engages in trading and marketing of  
7 electricity and provides commodity risk management services.

8 With regard to who is building and what is the  
9 outlook over the rest of this decade, we anticipate that  
10 most of the new generation installed to serve the loads  
11 within the service territories of the investor-owned  
12 utilities will be built by independent power producers  
13 pursuant to longterm contracts with the utilities and  
14 possibly other market participants. Some new utility-owned  
15 generation is also expected to occur. Of these, Edison's  
16 Mountain View plant and San Diego's Palomar project.

17 The CPUC's adoption of a comprehensive set of  
18 procurement rules consistent with the requirements of AB 57  
19 have provided the utilities with a regulatory framework  
20 necessary to support longterm contracts.

21 Over the past year or so, the CPUC has authorized  
22 a total of approximately 4500 megawatts of new generation to  
23 come online in the 2006-to-2010 timeframe. That includes  
24 around 1200 megawatts or so for San Diego Gas & Electric and  
25 around 2200 megawatts that represents the RFO from PG&E.

1           In addition to that, Edison has indicated that it  
2           is going out with an RFO for 1500 megawatts. So there's  
3           roughly 6,000 megawatts of proposed projects that would  
4           result in longterm contracts through the balance of this  
5           decade.

6           And so that is a full pipeline of projects that  
7           just about meets the needs of the state over that timeframe.  
8           So the key, as we see it, is having those RFO processes go  
9           forward in a predictable and timely and stable way so that  
10          contracts can result from them and people can get on with  
11          building those new projects.

12          Turning to the issue of capacity markets. I think  
13          we have a bit of a different point of view from those you've  
14          heard from other panelists.

15          As Yakout mentioned earlier, you can think of this  
16          as two bookends. On the one bookend, you have an  
17          energy-only market and at the other bookend you've got a  
18          capacity market where essentially a hundred percent of your  
19          fixed costs are recovered through these capacity contracts.

20          Our sense is that there are significant benefits  
21          to the energy-only market that indicate that the option  
22          shouldn't be dismissed out of hand.

23          For example, we talk a lot about creating demand  
24          response and the reason Jim Detmers indicated we've got to  
25          get this market started, the reason that we don't have

1 demand response, of course, is because we don't have price  
2 signals to elicit demand response.

3 And so the first step that I think we need to take  
4 is consider moving to an environment in which we raise the  
5 offer caps to a level that would allow the realtime markets  
6 to clear freely based on supply and demand. And if we do  
7 that we will get forward contracting in the energy markets.

8 And those forward contracts over time will provide  
9 incentives for people to invest in new generation. So  
10 that's an important factor about the energy-only market.

11 The capacity market, as we heard from Mr. Stoft,  
12 is it's got a lot of interest in the East. That's the  
13 standard model used there. The complexity associated with  
14 those types of markets, though, can't be underestimated.

15 Anybody that's been involved in the California  
16 process and the whole short-run avoided cost debate  
17 involving payments to qualifying facilities, if you thought  
18 that was controversial, wait until we bring in cost-recovery  
19 curves from the different economists and we talk about  
20 penalties and all the other structures and administrative  
21 mechanism that go into creating that kind of a capacity  
22 market. It's a very considerable undertaking and puts the  
23 regulators right square in the middle of the market.

24 And our view is, is there is a way to create a  
25 structure where you can incentivize longterm contracts that

1 don't necessarily involve creation, creation of a capacity  
2 market.

3 Mr. Chin was referring to the views of Wall Street  
4 and the investment entities there. I think that certainly  
5 there is a desire to have the security that comes with those  
6 types of longterm contracts with a utility. It's also the  
7 case, however, that the financial institutions and other  
8 entities that have been involved in risk management are now  
9 entering the market and can perform the intermediary role  
10 that the utilities have done in the past.

11 So we've got the sort of commodity-risk-management  
12 side of Wall Street willing to step in and play an  
13 intermediary role and help finance some of these new  
14 projects.

15 Finally, just in terms of the climate going  
16 forward and what is needed to continue investment into new  
17 generation. Clearly the stable, predictable market  
18 structure is absolutely critical.

19 So we would just urge that the whole MRTU process  
20 continue to go forward; that we continue to go forward with  
21 resource adequacy; not take anything off the table at this  
22 point, but continue to work on that issue; put MRTU into  
23 place as soon as possible; and then create a longterm,  
24 durable resource-adequacy framework that meets the needs  
25 that we all recognize, but doesn't foreclose the things like

1 demand response and really allowing the demand side to be an  
2 equal player with the supply side as we go forward.

3 In just one example of this, the ISO's peak load  
4 last year was just about 45,600 megawatts. If you look at  
5 the last 2,000 megawatts of that and how long that load  
6 existed, it was probably on the order of a few dozen hours  
7 over the course of the year.

8 So if you create a structure where the demand side  
9 is competing to serve that last 2,000 megawatts of load,  
10 we'll bring down the cost of capacity in the long run. And  
11 you won't get those kinds of incentives if you create this  
12 capacity market. You bifurcate it from the energy market  
13 and you create these revenue streams where literally a  
14 hundred percent of fixed-cost recovery goes into a capacity  
15 market.

16 So those are my remarks and we look forward to any  
17 commentary afterwards. Thank you.

18 MS. SIMLER: Thanks, Curtis.

19 And our last panelist is Katie Kaplan with the  
20 Independent Energy Producers.

21 MS. KAPLAN: Thank you. Thank you for the  
22 opportunity to be here. My name's Katie Kaplan. I'm with  
23 the Independent Energy Producers Association, and we're  
24 pleased to present these comments today.

25 IEP represents about 25,000 megawatts of installed

1 capacity in California, enough energy to produce over 20  
2 million homes and businesses. And our members stand  
3 willing, ready, and able to add more efficient capacity to  
4 California when given the right regulatory environments and  
5 the right opportunities for longterm contracts, as we've  
6 heard today.

7 Unfortunately, one of the growing concerns that we  
8 see is in this transition period, and that is going to be  
9 the majority of my focus of my comments today.

10 As you heard earlier today, there are -- there's a  
11 great need for generation in Southern California. And  
12 currently IEP is aware of about 6,000 megawatts of installed  
13 generation capacity in Southern California that do not have  
14 any type of longterm contracts, nor do they have RMR  
15 contracts with the ISO, nor do they have any market  
16 opportunities to recover fixed costs through any type of  
17 market, because, as we've heard today, they're under the  
18 must-offer obligation.

19 This should be especially alarming to policymakers  
20 because the California ISO continues to report a reliance on  
21 these facilities, as we heard today, to meet what will be a  
22 peak load condition this summer. This gives a whole new  
23 meaning to a faith-based energy policy, since these units  
24 have no --

25 (Laughter.)

1           MS. KAPLAN: -- obligation to bid into California,  
2 nor do they have an obligation specifically to the  
3 California ISO. They can serve load in other parts of  
4 California.

5           It is important to point out, however, and I would  
6 definitely agree with Mr. Florio that, you know, we are on  
7 the right track. And all of you should be very proud of  
8 your collective staffs because they have been completely  
9 amazing over the last few months and actually over probably  
10 the last 18 to 24 months in working collectively with market  
11 participants and with each other, which is definitely a  
12 breath of fresh air for all of us that have been  
13 participating in this process for a long time.

14           So we definitely, you know, see things coming to  
15 fruition. And our -- our members are looking forward to the  
16 2007-2008 time period. Unfortunately, what happens today  
17 between now and 2007 or 2008 is what gives us great pause  
18 when we're trying to figure out whether we're going to make  
19 critical investment decisions.

20           These decisions that need to be made today will  
21 meet that the future demands in 2007 and 2008. We want to  
22 make sure there are people able to participate in the market  
23 in 2007 and 2008 to meet those obligations.

24           We -- that's why we need to address the transition  
25 issues and that's why we cannot continue to just ignore the

1 transition issues.

2 We need to keep our eye on the in-state. And we  
3 need to make sure that the transition will clearly facility  
4 the in-state. And it -- and we need to make sure that that  
5 in-state is clearly communicated to market participants and  
6 to the investment community.

7 California currently defines itself designing both  
8 longterm resource-adequacy requirements and spot markets and  
9 needing to address these interim issues. The convergence  
10 actually provides a unique opportunity to recognize the  
11 relationships between these two markets.

12 The key to designing these markets is to keep the  
13 investment risks and rewards properly aligned and the  
14 incentives clear to all market participants. The transition  
15 must facilitate the end goals.

16 There's a few keys that we see that will do that.  
17 One is action. We need regulatory stability and regulatory  
18 action. We need to make sure that this collective group  
19 here takes the good work that's already been done, sets a  
20 stake in the ground, sets a schedule and sticks to the  
21 schedule. And this is probably a date-certain specific  
22 schedule that you need to keep to.

23 We want to make sure that this collective  
24 regulatory commitment in implementing a proven market  
25 structure will allow for forward procurement standards all

1 the way to the realtime market decisions. And investors  
2 will see that the signs of stability and limitation of the  
3 transition.

4 The second is obviously the transition issues.  
5 And you heard a little bit from Steve and from Mr. Florio  
6 about it. But if you think RMR is an addiction, then the  
7 must-offer obligation is the enabler, and we are in this  
8 perpetual state of co-dependency.

9 And so -- and if we really want to address  
10 investment on a longterm basis you have got to address the  
11 issues with must-offer today. It is a crutch that must be  
12 eliminated. And we would suggest that this -- that the  
13 must-offer obligation be replaced with the Commission-imposed  
14 resource-adequacy requirement and availability  
15 obligation when resource adequacy is implemented June 1st,  
16 2006.

17 Relying on a set of resources to provide a  
18 reliability resource that everyone in this room will  
19 recognize is key to keeping the lights on and not  
20 compensating them for the service is capacity stealing and  
21 not -- should not be permitted to continue any longer.

22 California must look to new resources to meet its  
23 future needs, but those needs will only grow faster if the  
24 existing in-state generation is subject to a must-offer  
25 obligation and is subject to different types of -- different

1 types of operational criteria.

2 The must-offer obligation allows load-serving  
3 entities that are not fully resourced to hide behind and  
4 escape accountability. For each day the Commission allows  
5 the must-offer to continue is a signal sent to investors  
6 that California is no place to do business.

7 In closing, I think that it's important to note  
8 that one of the transitional mechanisms that can be  
9 approached by next summer, by June of 2006, is addressing  
10 some of the key excessive mitigation that the ISO has been  
11 allowed to employ through the market -- market power  
12 mitigations, including the addressing of the -- of the price  
13 cap.

14 In summary, IEP agree -- urges all parties to work  
15 together to capture this unique opportunity to modify both  
16 ISO and PUC practices. In the transition period, to  
17 facility and complement a swift evolution of the longterm  
18 market design, IEP recommends moving quickly to a tradable,  
19 flexible capacity market, a centralized capacity market, and  
20 to ensure that existing and new resources are valued for the  
21 reliability service they're actually providing today, and  
22 are dispatched responsibly.

23 Thank you, and we look forward to your questions.

24 FERC CHAIRMAN WOOD: So to take up on, I guess,  
25 that last challenge, would seem to be in varying levels

1 repeated everywhere: The June 1, '06 date is pretty much  
2 the shortterm key issue here, between now and then, and then  
3 from then and beyond; and then the implementation of the  
4 MRTU, which of that, I guess, would be folded into -- the  
5 resource adequacy would certainly be a precursor to that.

6 To be specific, and I heard from Katie here at the  
7 end, what needs to happen between now and 6-1-06, I just  
8 would like to kind of poll the group. We've kind of got a  
9 supplier, LSE/utility, consumer, investors, kind of a good  
10 panoply here. What do us up here need to do immediately?

11 And this is a question we -- I'd like to get some  
12 ideas now, but it's important enough where after you go back  
13 and think, and people in the audience who might have a  
14 different perspective, would just like to get that to our  
15 Commission and to President Peevey and his Commission, some  
16 really suggestions about that. Because I mean we've got a  
17 number of dockets that are moving. Quite frankly, we've,  
18 you know, let things kind of gel and develop here.

19 But if we're going to kind of get back at  
20 commission-level, driver-seat action again, I think I'd like  
21 to make really sure that we get a plan here that has input  
22 from everybody. And then y'all and we can figure out how we  
23 get all these things done and get it overwith.

24 But just big picture thoughts about two  
25 timeframes, now to 6-1-06, -- and then again task items,

1 particularly for the two Commissions, if the Energy  
2 Commission has some task items that they haven't already  
3 handled, you're all free to throw those in here. That's why  
4 John's -- John's here as well. And certainly with Yakout  
5 here as the operationalizer of all of this. You know, don't  
6 be shy about telling him what you need him to do.

7 But let's just kind of go down and we'll start,  
8 Katie, and go here to Mr. Stoft and run down. What are the  
9 items in timeframe one, which is now to next summer, and  
10 timeframe two, which is next summer onto the implementation  
11 of the new market design?

12 Let's not talk about the long, long frame, which  
13 is -- Curtis, I'm on the record as being kind of leaning  
14 toward option one as well. Maybe the free energy market --  
15 the problem there, though, is are going to have everybody  
16 sign in blood that when, you know, the politician start to  
17 how we won't re-intervene. I think that's when all the  
18 generators go, 'Yeah, that sounds great. No capacity  
19 market. No regulatory overheading, but we've been there  
20 before, particularly in ground zero. And we're not going to  
21 be fooled again.'

22 So mindful of that, that we are going to have some  
23 sort of transitional device in place that does account for  
24 the revenue adequacy and the resource adequacy, that looks a  
25 little more regulatory than us on the market side of the

1 fence would like, let's take that as the two timeframes:  
2 Shortterm, subsequent to 6-1-06 into the two years beyond.  
3 What do you think are the top action items? Katie.

4 MS. KAPLAN: The first one would be that there has  
5 to be some action to recognize the reliability services that  
6 the units that exist in California currently provide; and  
7 what that means is two things.

8 One, I think you need to put a stake in the ground  
9 that says must-offer is replaced by the resource-adequacy  
10 requirement on June 1st, 2006, period. That there is a huge  
11 amount of ambiguity in California right now when the  
12 must-offer obligation actually terminates. And so, you  
13 know, there are several different FERC Commission orders,  
14 there are several different PUC orders. It is completely  
15 ambiguous to many market participants.

16 And so as you are looking at that what you see is  
17 that everyone just says, oh, well, we can always rely on  
18 this. Or the ISO may say, oh, we may need it for another  
19 few summers. Or -- so why on Earth would any LSE sign any  
20 kind of contract if, as Steve said, you can get the milk for  
21 free? I mean it just doesn't make any sense. So --

22 FERC CHAIRMAN WOOD: So -- so the issues that were  
23 addressed by the MOO, which are: We want to have capacity  
24 available so there's not a temptation to do physical  
25 withholding, that's handled by the fact you've got a

1 resource-adequacy contract supplier on the hook?

2 MS. KAPLAN: Not -- not only that. I mean it's  
3 handled by that. It's handled by the rules that you guys  
4 have in place with regard to the market-based rates and  
5 tariffs. It's handled by the enforcement protocols that the  
6 ISO has in place.

7 We don't exist in the same market that we did, you  
8 know, when --

9 FERC CHAIRMAN WOOD: As more --

10 MS. KAPLAN: -- MOO was implemented. And so it's  
11 really critical that that statement is made on the record,  
12 an affirmative statement is made on the record that that  
13 will terminate that it must be replaced.

14 I don't think anyone on this panel, both Mr.  
15 Florio and Mr. Pizarro, would agree that the must-offer is  
16 in anyone's best interest. It's not transparent. There's a  
17 huge amount of procurement that's done in a black box  
18 methodology, thousands of megawatts. It's equivalent to how  
19 much money we spend on RMR. I mean it's close to a billion  
20 dollars if you add RMR and what we spend on must-offer.

21 So it's really critical that those procurement and  
22 the definition of what needs to be done and what needs to be  
23 procured is also very critical. So I would say, you know,  
24 that would be our -- our probably -- one of our top  
25 concerns. But, again, it's very important to recognize the

1 reliability service that units are providing today.

2 FERC CHAIRMAN WOOD: Okay, got it.

3 MR. KEBLER: I would say that the first thing is  
4 sort of in the now timeframe would be for the CPUC to, in  
5 its resource-adequacy decision, to adopt some type of -- not  
6 some type of -- adopt a specific capacity-only product that  
7 could be used as a substitute for the must-offer obligation.  
8 And the industry has been working, sellers and buyers have  
9 been working to craft language that defines what this  
10 capacity-only product looks like.

11 If the industry could get together, finalize what  
12 the terms and conditions of that product are, provide that  
13 to the PUC, the PUC could say: Yes, this is a product that  
14 satisfies resource adequacy. And that would count for  
15 transactions beginning in the '06 timeframe forward.

16 When you get to June of '06, the FERC could say at  
17 that time, if there is in fact a viable capacity product  
18 that can substitute for the must-offer obligation, the FERC  
19 at that time can replace the existing regulatory must-offer  
20 with a market-based must-offer.

21 And this capacity product that I'm talking about  
22 is one that's traded bilaterally. It's just defined by the  
23 parties and it's traded bilaterally. And then that  
24 continues through basically the MRTU timeframe and then  
25 we're on into the longer term.

1           And just a short reply, Chairman Wood, to the  
2           issue about price spikes and how you mitigate price  
3           volatility and protect consumers and so forth, it's called  
4           forward-hedging contracts. And at the time we had the  
5           energy crisis, the utilities were precluded from entering  
6           into those contracts.

7           We've got a completely different paradigm in place  
8           now, where they're not only encouraged to, they're mandated  
9           to enter into forward-hedging contracts. So this concern  
10          about price volatility in the spot market can be entirely  
11          mitigated through forward-hedging contracts.

12          FERC CHAIRMAN WOOD: Does the -- does the  
13          resource-adequacy program -- when you say replace this  
14          regulatory must-offer with a market must-offer, does the  
15          resource-adequacy program that is being discussed here in  
16          this state actually do that as part of the program or are  
17          you talking about an extra thing?

18          MR. KEBLER: No. We're -- that's -- this would be  
19          exactly as -- and this -- you know, there are many advocates  
20          of this very approach in the current resource-adequacy  
21          process. I think what we --

22          FERC CHAIRMAN WOOD: But it's still an open  
23          question?

24          MR. KEBLER: It -- well, it -- yeah, it's an open  
25          question in terms of what -- what satisfies an LSE's

1 resource-adequacy obligation, what product satisfies it.  
2 And we heard from Calpine saying we don't like the idea that  
3 LD contracts can be used to satisfy it.

4 At some point if it's decided that LD contracts  
5 should now count toward a resource-adequacy requirement,  
6 then you've got to have a replacement product in place that  
7 a load-serving entity can procure. And defining that  
8 product now and allowing parties to bilaterally transact  
9 that, -- and we've been in the market talking to sellers  
10 about this, so I think that there's an ability for that  
11 market to begin to take off.

12 The concern that we have about the longterm vision  
13 of capacity markets is this idea of a centralized market  
14 with all this administrative stuff, with these demand curves  
15 and cost-recovery curves and penalties, and all of that. We  
16 view that the capacity mechanism is really a transitional  
17 mechanism until we can get to a stable, longterm end state,  
18 which we would believe is an energy-only design.

19 FERC CHAIRMAN WOOD: Great. Pedro.

20 MR. PIZARRO: I'll actually start with the  
21 longterm, then go to the shortterm. I think, Chairman Wood,  
22 you made a very important comment, especially as you're  
23 thinking about energy markets, which is there is a political  
24 reality here of what will the public tolerate at the end of  
25 the day.

1           And if you go towards a longterm vision with  
2 energy markets requires, you know, even in spite of efforts  
3 to hedge volatility, you will have the potential for  
4 volatility and you also have the potential for reliability  
5 spikes. And one would need the political will to pass both  
6 of those through directly to end-users in order for the  
7 market to truly be workable. I'm not sure that that can  
8 work in the end, and that's one of the concerns I have.

9           Frankly, we're looking for reliability at a level  
10 that seems to demand some sort of more administratively set  
11 solution, because there are general benchmarks in  
12 reliability that a system seems to be demanding that may not  
13 work in a volatile environment. So that's the ten seconds  
14 on that.

15           I think in terms of the longterm vision, though,  
16 the comments that I heard President Peevey say and the ACR  
17 that he issued a few months ago on getting the Commission  
18 working on evaluating capacity market structures, as well as  
19 the idea that Yakout Mansour introduced today of a blue  
20 ribbon panel, it seems like that's efforts are converging to  
21 make sure that we take a detailed look not just at the  
22 30,000-foot level but at all of the devils and the details  
23 that must be gotten right in order to make sure that we have  
24 a market in the longterm that can allocate costs fairly,  
25 keep existing generation when needed, and develop new

1 generation when needed as well. And we cannot afford for  
2 California to be once again on the bleeding edge of  
3 experiments. We need to get this right.

4 Talking about the shortterm, a couple of  
5 transitional elements that I point to. First of all, we do  
6 need to address transition issues with existing resources.  
7 This way the must-offer obligation debates can end.

8 I think what I'd say is what we recognize today is  
9 that there is probably a lot that leaves something to be  
10 desired with the current must-offer.

11 I'd point to -- well, we heard from the ISO  
12 through Yakout. We can't do away with the must-offer  
13 framework without a replacement in place. And so I get  
14 really concerned when I hear comments about just lifting  
15 that off and doing away with it without having a ready  
16 replacement to step in its place and put --

17 FERC CHAIRMAN WOOD: What I heard Katie say was  
18 that the MOO would be replaced by the Commission-approved  
19 RAR on 6-1-06.

20 MR. PIZARRO: Well, again, we're still working  
21 through the details of what exactly the RAR is doing and its  
22 final decision, and to what extent the RAR really down in  
23 the devil in the details creates a structure that provides  
24 the resources that the ISO needs at its disposal.

25 I think there's still a lot of work that needs to

1 be done. I think to Gary Ackerman's point earlier, this may  
2 not be the final decision in RAR. There may be more work  
3 that needs to be done to get the operators comfortable, that  
4 the RAR framework actually gives them what they need to  
5 maintain the system.

6 The second, final transition element is what I  
7 mentioned earlier. Beyond looking at how we deal with  
8 existing resources, we need new capacity. And we're hearing  
9 from the ISO and the CEC we need it now, so we need some  
10 sort of Band-Aid solution and, hence, the proposal we're  
11 filing at the PUC today.

12 FERC CHAIRMAN WOOD: Now if we have time I'll ask  
13 you some questions about it.

14 Mr. Schleimer.

15 MR. SCHLEIMER: Thanks. I'll start -- I'll start  
16 with the interim. I think that if the resource-adequacy  
17 program is up and running in June 1st of '06, I still think  
18 that we're going to have a year or two or three of  
19 transitional issues beyond that, issues that start now and  
20 go years out. And that's because even if you put something  
21 in place by June 1st of '06, you're still going to have a  
22 lot of Firm LD contracts that have been signed that will  
23 carry over and be here till '07, '08, or '09, so you have to  
24 deal with the problem of how you deal with the Firm LD  
25 contracts.

1           I think what is needed between now and next  
2 summer, and it's actually needed this summer, is, as I  
3 mentioned earlier, you know, the ISO in their analysis of  
4 the summer peak has certainly our megawatts and, it sounds  
5 from what Ms. Kaplan said, thousands of other megawatts  
6 counted as meeting California's, Southern California's needs  
7 that has no capacity contract, no commitment to beyond and  
8 selling in the state or selling an MP -- SP15.

9           And I think what is needed is -- you know, that  
10 generation will be made to be there because of the  
11 must-offer, and we need a compensation mechanism for the  
12 capacity service that those generators are providing.  
13 That's this summer. And I think that that will continue for  
14 many years.

15           Because even in '06, if there's a resource-adequacy  
16 mechanism in place, if you have loads exactly equal  
17 -- exactly equaling resource in Southern California, for  
18 every Firm LD contract that doesn't have a generator backing  
19 it, it means there's a generator that doesn't have a  
20 contract. And so you're going to need to deal with this --  
21 this issue even then of generators that don't have  
22 contracts, capacity contracts that are needed for the  
23 reliability service. So I -- you know, I think that that's  
24 the transitional issue.

25           I think the longer-term issues, and others have

1 somewhat touched on this, is I think one of the key  
2 questions we need to answer longterm is the retail access  
3 issue and what the rules are for that.

4 As far as I can tell, there's a big hole in  
5 California's Resource Plan going out over the next three to  
6 five years. I don't have the information because I'm a  
7 market participant, so I don't know what it is. But my  
8 sense is that there are thousands of megawatts missing from  
9 the California Resource Plan because of the assumption that  
10 there is a certain amount of customers that are going to  
11 retail access. And at this point I don't think anyone's  
12 building for those customers.

13 I think it sounds like Edison is making a proposal  
14 that they will acquire for those customers as long as they  
15 can pass the costs along to everyone. But I think that's a  
16 real problem over the longer term. We need to figure out  
17 what, you know, what is the rules of the retail market. And  
18 that will, I think, help -- help solve this problem.

19 FERC CHAIRMAN WOOD: Mr. Chin.

20 MR. CHIN: Very quick. I'm not sure if this is a  
21 shortterm or a longterm, to be honest with you, but I think  
22 the immediate action that needs to be taken is you need to  
23 let the IOUs have an agnostic decisionmaking process with  
24 regards to either ratebasing generation build or contracting  
25 with the merchants.

1           Right now the perception at least with the folks  
2           that I talk to is that there -- there is an inherent  
3           dichotomy. If you are -- if you are an IOU, you may want to  
4           hold off contracting with a merchant as long as possible  
5           because you know that those -- that capacity will always be  
6           there and you can contract with them at a later date. But  
7           if you can ratebase it, well, hey, that's even better for  
8           you. You want to make that decision agnostic, so that way  
9           transactions are consummated and we can move forward in  
10          terms of getting contracts settled.

11          And then the longer-term issue, I'm just going to  
12          go ahead and echo Mr. Schleimer's comments. I think the  
13          stranded-cost allocation, which is a flipside of the same  
14          coin, I think that that very much needs to be addressed. It  
15          isn't very clear, I think, to the IOUs or the merchants just  
16          who is going to be paying for that and how, how do you  
17          allocate that. I'm not sure what the right answer is, but  
18          whatever decision you pick, stick with it.

19                 FERC CHAIRMAN WOOD: Gary.

20                 MR. ACKERMAN: I'm thinking about that last one.  
21                 I think we've just now gone from faith-based contracting to  
22                 agnostic contracting, so I'm trying to find out where in the  
23                 --

24                         (Laughter.)

25                 MR. ACKERMAN: -- bookends I belong. And I'm --

1           FERC CHAIRMAN WOOD: Write on it tonight.

2           MR. ACKERMAN: I will. Maybe I should just get on  
3 my knees here and give the rest of my speech, but here --

4           (Laughter.)

5           MR. ACKERMAN: It does have an oops kind of  
6 feeling.

7           Let me give you my laundry list then of check  
8 items for now till June 1 of '06, and they were alluded to  
9 in my other, earlier comments and also mentioned by other  
10 panelists: Relaxing system-wide mitigation measures. That  
11 is something that can be done between now and next June. We  
12 don't see any relaxation going on in terms of the soft cap  
13 or the hard cap.

14           Removal of the must-offer obligation or at least a  
15 target date for removal of the obligation.

16           Curtis mentioned the capacity product. I mean  
17 isn't it amazing? We don't have one here in California.  
18 Now we started that conversation on a stakeholder basis.  
19 And the Silicon Valley Manufacturing Group spearheaded all  
20 that, but it's languishing now and it has to be rekindled.  
21 And we have to pick it up again and complete it. And it has  
22 to be a product that's acceptable to the PUC for its  
23 resource-adequacy demonstration by the load-serving entities  
24 and it has to be acceptable to the ISO. We're nowhere near  
25 that, we're not even talking about that.

1           And, finally, on the shortterm horizon, as I  
2 mentioned in my comments, define trading hubs, either for an  
3 interim period that could take place now. And what I mean  
4 by defined is not only geographically defined, but also how  
5 the prices would be calculated. Otherwise we're, again,  
6 watching liquidity dry up and interest in our market  
7 languish.

8           Longterm. We have to move to a \$1,000-per-megawatt hour  
9 price cap when MRTU becomes effective. We  
10 have -- I mean there's no reason in the world why this grid  
11 in this part of the country should be any different than any  
12 of the other organized markets. That's one.

13           Two, we need a platform to trade that capacity  
14 product that we'll attempt to develop now and before June 1  
15 of next year.

16           And, as I mentioned in my comments, longterm  
17 multi-year CRRs, if you want to use the language of MRTU. I  
18 know that's going to be a tough challenge to take on now.  
19 We have so many other things going on now, but the  
20 marketplace is saying why should I be entering into longterm  
21 contracts if I can't hedge the cost of deliverability.

22           Let me conclude by saying transition periods. In  
23 seven years of doing this executive director shtick, I've  
24 never seen a problem like I've just gone through with my  
25 members on transition. It's the thing which we could never

1       come to an agreement on, and it's because loads  
2       predominantly saw it one way and generators saw it another  
3       way.

4               And, you know, there's this implication that if we  
5       just knew what the stakeholders want we could then provide  
6       you with the -- you know, the rules of the road and  
7       everybody would be fine but, you know, here's the problem.  
8       We have a 50-50 split on the contentious issues.

9               So how do you get through that one if you folks  
10       don't just take up the leadership and say, well, look, every  
11       -- every answer is going to have to either be a good answer  
12       or bad answer, but we have to get on with this thing. And  
13       we get stuck in the transition period.

14               It would not be fair to suggest that regulation is  
15       a series of transition periods, even though a sage once said  
16       all transition periods is that period of time between two  
17       other transition periods.

18               (Laughter.)

19               MR. FLORIO: I was that sage.

20               MR. ACKERMAN: You were?

21               (Laughter.)

22               MR. ACKERMAN: The day you become a sage is the  
23       day -- I don't know.

24               (Laughter.)

25               FERC CHAIRMAN WOOD: Thought we'd put y'all next

1 to each other.

2 MR. ACKERMAN: Yeah, you did and you wore a nice  
3 suit for the occasion.

4 So I don't want -- resource adequacy more than  
5 anything else I find that our regulatory model is becoming  
6 just a series of transition periods: Wrong thing.

7 We should have a very clear message of what the  
8 in-state is, much like was done in the longterm procurement  
9 order and other orders at FERC. We need that guidance. We  
10 need that -- we need the North Star so we know where we're  
11 directed. And I'm -- it's just my caution and my fear that  
12 we get bogged down in regulating transition periods instead  
13 of the in-state.

14 FERC CHAIRMAN WOOD: Mr. Florio.

15 MR. FLORIO: Yes. I was getting worried because  
16 Gary and I were agreeing too much. I mean I have been  
17 working on electricity issues for --

18 MR. ACKERMAN: A hundred years.

19 MR. FLORIO: -- 20- -- yeah, almost -- 27 years  
20 now, and we've always been in some kind of transition. And  
21 I'm confident we still will be if I ever lay down my sword,  
22 but for the immediate, I think we've got to get this last  
23 resource-adequacy decision out of the CPUC in good shape.

24 And once you have those requirements on  
25 load-serving entities to sign contracts, I think a lot of

1 these other issues go away. The argument that, well, LSEs  
2 won't sign contracts because there's a price cap, they're  
3 mandated to sign contracts. So I think that issue goes  
4 away.

5 And, you know, I'd like to see it further in  
6 advance than one year. But, you know, the first bite will  
7 at least get us through 2006.

8 I think that the Edison proposal, which I guess I  
9 could talk about because it hasn't been filed yet, is a very  
10 positive step that both Commissions really need to grapple  
11 with. I don't think we're going to get through this without  
12 something like that. In fact, it sounds vaguely like a  
13 proposal we made in last year's procurement proceedings.

14 So I think we've got to survive the transition and  
15 that means getting something built before the transition  
16 over. So I do think the Edison proposal is very important  
17 in that regard. And it's scary how much I've been agreeing  
18 with Edison lately also, but I think they're taking a very  
19 practical approach to this.

20 I also agree with what's been said, that the  
21 resource-adequacy decision has to be very clear about what  
22 qualifies and counts for purposes of resource adequacy going  
23 forward. And whether you call that defining the attributes  
24 of a capacity product or you just say, you know, you have to  
25 have a contract that meets these attributes, it could be

1 bundled, it can be unbundled, it can be whatever, but, you  
2 know, we need to know with great specificity what LSEs need  
3 to sign in order to meet their obligations.

4 The one place where I have to disagree a little  
5 bit with Ms. Kaplan is I think if resource adequacy works  
6 the way it should, I think we'll see both must-offer and RMR  
7 almost fading away. I'm a little uncomfortable with saying  
8 do away with them on 1-1-06, because it's -- you know, this  
9 is the first day of the rest of your life, but, you know, it  
10 might be a miserable life.

11 (Laughter.)

12 MR. FLORIO: I think that prudence dictates  
13 keeping those as little-used backstop mechanism until we get  
14 MRTU in place. We don't have the day-ahead market in the  
15 unit-commitment process of MRTU until February '07.

16 I know Katie's impatient, but I really don't see  
17 much need for RMR or must-offer if resource adequacy works  
18 correctly. The concern is we don't always get it right the  
19 first time. And I think that additional nine months of  
20 cushion could -- could come in very -- very handy. Although  
21 I'm not advocating that we rely on those things in the first  
22 instance, but only as a fallback backstop if they turn out  
23 to be needed.

24 Beyond that is beyond what I can think at this  
25 point, so I'll stop there.

1           FERC CHAIRMAN WOOD: Thanks, Mike.

2           Steve.

3           MR. STOFT: I don't know California details so I'm  
4 not going to talk about details of transition. But what is  
5 needed is not so much the elimination of patches like the  
6 must-offer. What is needed to being sending real investment  
7 signals as soon as possible.

8           One way to do that is to allow market power by  
9 taking away must-offer. That's probably not the best way to  
10 send the signals we need.

11          Another way is to send shortage energy pricing.  
12 And you could do that by having shortage pricing for more  
13 hours or to a higher cap. That's useful.

14          The other way to send investment signals is  
15 through your standard revenue -- I mean resource-adequacy  
16 requirements which require either longterm contracts or  
17 capacity contracts.

18          If you're going to send signals with those, my  
19 guess is -- missed a step. Just because you get people to  
20 sign contracts doesn't mean you're sending signals. You've  
21 got to get them to sign contracts that they don't want to  
22 sign, then they're going to be paying more than they want to  
23 pay, then they're sending to signals.

24          This is the deal: If you put a requirement that  
25 you send -- signed 30 gigawatts of contracts in a market

1 that has 34 gigawatts, nobody has to pay extra for those  
2 contracts because you've been too soft on them. Or if they  
3 have to sign contracts that provide that only for three  
4 hours, they only have to pay extra for three hours.

5 You have to figure out how many -- how much of a  
6 contract has to be signed, how many megawatts have to be  
7 signed so that if you're short on capacity you're pushing  
8 those people to sign contracts they can't get their hands on  
9 very easily. Then they have to pay extra, then the  
10 investors get extra.

11 There's got to be some pain there to get that  
12 money out to investors. And if you don't work that problem  
13 of what's the penalty if you don't do it, how much are we  
14 requiring and get the pain calibrated correctly, you will  
15 not be sending any reasonable signals.

16 So the first thing to do is start thinking about  
17 exactly what you want to require as soon as possible for  
18 people to buy, what's the penalty for not doing it so that  
19 if the market is short, you cause them pain, and they sign  
20 expensive contracts, and if it's long, they don't. And they  
21 don't send any extra money out there. Then you'll get the  
22 signals right.

23 If you just go blindly in and say, 'We're going to  
24 require some longterm contracts,' and if they sign longterm  
25 contracts, fine, you'll never get the right signal. Start

1 sending those investment signals as soon as possible. The  
2 sooner market sees you are serious about sending the right  
3 signals, the sooner they're going to start building plants.  
4 But don't take away the Band-Aids until you start getting  
5 some real investment signals in there.

6 FERC CHAIRMAN WOOD: All right, Steve.

7 For anyone else that would like to answer that  
8 question but didn't get asked to answer the question, we'll  
9 announce the docket or some filing later that we'll get, and  
10 perhaps the CPUC would do that, or we'll just collect it and  
11 copy it for everybody, but we'll find an expeditious way to  
12 handle that.

13 Other Commissioners and Yakout. President Peevey.

14 CPUC PRESIDENT PEEVEY: I just wanted to ask Pedro  
15 Pizarro a question.

16 In the case of your Tehachapi Transmission Line  
17 filing, as I understand it, Edison wanted to socialize the  
18 cost right beyond its own bundled ratepayers directly into a  
19 broader group, correct?

20 MR. PIZARRO: Yes.

21 CPUC PRESIDENT PEEVEY: And that's what you're  
22 going to now propose, to -- in a filing you're about ready  
23 to make here also?

24 MR. PIZARRO: But in this case it would be  
25 socializing the cost of trans- -- of generation resources --

1 CPUC PRESIDENT PEEVEY: I -- I --

2 MR. PIZARRO: -- as opposed to the trunkline --

3 CPUC PRESIDENT PEEVEY: I understand. That's what  
4 I thought you had said. I just wanted to be sure.

5 I wanted to ask you this question, and this is an  
6 equity question, and I -- and Mr. Florio could comment on it  
7 too, perhaps.

8 This Commission and FERC did something that was  
9 unusual: We approved a Mountain View project for you 30  
10 years, in effect, guaranteed recovery. Very attractive. We  
11 did it -- I can't speak for FERC. We did it because we  
12 thought the savings that was AES' loss should be the  
13 ratepayers' gain.

14 Pastoria, the one -- this beautiful plant we saw  
15 the pictures of, was -- construction began before Mountain  
16 View. It's a little different status.

17 My question is: Is Edison -- and I'd like to see  
18 TURN, too -- would you be willing to socialize the benefits  
19 of Mountain View all that you want to socialize the cost to?

20 CPUC PRESIDENT PEEVEY: You know, actually, why, I  
21 expected the opposite question from players and from -- in  
22 the market who might be asking is Edison looking to  
23 socialize the cost of Mountain View or, for that matter,  
24 should San Diego be looking to socialize the cost of Otay or  
25 Palomar or, you know, any other plants that are already in

1 -- in the -- on track.

2 Let me start by saying we -- we would rather not  
3 put out this kind of proposal. We would rather not be  
4 looking for the socializing of costs. But faced with the  
5 continued instability in terms of the retail markets, and  
6 other folks have pointed to that question, and faced with  
7 the fact that the CEC and the ISO have taken -- I think of  
8 their assessment as a census.

9 They've gone out, they've counted all the load and  
10 they've counted all the physical resources. And even with  
11 Mountain View on that assessment and with Otay and Palomar  
12 and Pastoria, they're still coming up short across the  
13 system.

14 So we're not trying to engineer something here  
15 that's an all-encompassing framework. All we're saying is  
16 even with the efforts of the Commission in approving the  
17 various utility projects, even with the efforts of not only  
18 Calpine but other generators who had merchant plant built,  
19 probably financed before the full impact of the energy  
20 crisis hit, even with all of these efforts across the  
21 market, we're still coming up short.

22 What we're trying to do is propose some option for  
23 the Commission to consider and approve or reject that allows  
24 us to take the next necessary step. And we think that it is  
25 probably prudent to limit this sort of unique approach to

1 small -- the smallest crunch necessary.

2 CPUC PRESIDENT PEEVEY: So you wouldn't want to  
3 see this extended, the --

4 MR. PIZARRO: No, but what --

5 CPUC PRESIDENT PEEVEY: -- flipside to Mountain  
6 View?

7 MR. PIZARRO: No, but -- no, but --

8 CPUC PRESIDENT PEEVEY: I assume that's what  
9 you're saying.

10 MR. PIZARRO: That's right. But the --

11 CPUC PRESIDENT PEEVEY: That's what I figured.

12 Mr. Pizarro, your equity --

13 MR. PIZARRO: That's right. Of course the other  
14 --

15 CPUC PRESIDENT PEEVEY: -- concern in this regard

16 --

17 MR. PIZARRO: -- is that -- if San Diego or  
18 another load-serving entity, the Commission decided that  
19 another load-serving entity should be stepping into those  
20 same shoes, we would also support that.

21 This is not -- Edison is not the only entity out  
22 there that can do this. We'd rather not have it on our  
23 balance sheet.

24 CPUC PRESIDENT PEEVEY: Okay.

25 MR. PIZARRO: We would equally somebody else doing

1 it.

2 CPUC PRESIDENT PEEVEY: You know the term "DOA"?

3 (Laughter.)

4 MR. PIZARRO: I do. Let us know now and we'll  
5 stop.

6 MR. FLORIO: Well, I hope "DOA" doesn't mean what  
7 I think it does, because it means we won't get the  
8 generation we need. But I think one thing that we -- hasn't  
9 been mentioned yet in this proposal is that there is a  
10 socializing of the benefits in the sense that resource-adequacy  
11 credit goes to everybody who pays.

12 So it's not, you know, Edison gets the benefits  
13 and everybody else pays. The benefits in terms of meeting  
14 the obligation would be socialized as well.

15 But now I think in the current environment, I  
16 don't know what else gets -- gets the generation we need in  
17 the shortterm. This isn't anybody's first choice, but it's  
18 -- it's something to get us through.

19 And, you know, to the extent that, you know, the  
20 problem is uncertainty about the future of the retail  
21 market, I have a solution to that problem, but I promise not  
22 to talk about it.

23 CPUC COMMISSIONER GRUENEICH: November.

24 CPUC PRESIDENT PEEVEY: What number is that on the  
25 initiative ballot?

1           MR. FLORIO: I don't think we've gotten a number  
2 yet.

3           CPUC COMMISSIONER GRUENEICH: Do we have time?

4           FERC CHAIRMAN WOOD: Yes.

5           CPUC COMMISSIONER GRUENEICH: I continue to remain  
6 intrigued about throughout all the discussion is still many  
7 people made the statement of demand response is a key  
8 element, because we're sitting here talking about sort of  
9 carrying on -- this is my worry -- what has been a problem  
10 throughout the country, a problem in California of how do  
11 you bring the demand side into full competition with the  
12 supply side because we all know unless and until we do that  
13 we overpay on the supply side. And especially when we're  
14 talking about, you know, what -- some people said 15 hours a  
15 year.

16           And so I'd like to echo Chairman Wood's question,  
17 and not everybody needs to respond given the timeframe, but  
18 if we're trying to get together a more integrated approach  
19 on this, in addition to your recommendations of what we  
20 would do by June of 2006 on the resource-adequacy side, can  
21 I hear, you know, two or three ideas of what we need to do  
22 on the demand-response side?

23           MR. PIZARRO: Well, I'll jump in here real  
24 quickly. I think Edison has proposed a number of the  
25 demand-response programs, as you know, including our AC

1       Cycling Program. So we do think that those are an important  
2 part, an important piece of the puzzle.

3               One of the comments I made to Jim Detmers was that  
4 when he showed the numbers charts for the summer, those  
5 numbers, I believe, exclude demand response and  
6 interruptables from them. And that's something that we need  
7 to always remember that we're paying for these programs and  
8 they are the top of the energy-loading order. So we really  
9 do need to count on them and view them as a resource to be  
10 turned to.

11              So, you know, we continue to pursuant demand  
12 response as aggressively as we can. And, you know, I  
13 believe that our programs that we've proposed address what  
14 we view as the maximum, you know, capturable potential  
15 that's out there. We'll keep on working on those.

16              CPUC COMMISSIONER GRUENEICH: Not to prolong this  
17 but to hone in a little bit more, I mean is there something  
18 more specific that we collectively -- everybody involved in  
19 this, we, the CPUC, need to do to make reliance on the  
20 demand-response programs more of a reality in terms of what  
21 we're planning on or in terms of our whole system?

22              MR. PIZARRO: I guess I would focus on the reality  
23 part. I do think it is important that as we set targets for  
24 demand response we are really taking a hard look at how much  
25 do we really think is capturable realistic and build that

1       into the planning, because while we don't want to undercut  
2       the demand-response programs, we also don't want to set  
3       expectations that are out of line with what we can really  
4       get at.

5               And so I guess to answer your question, just  
6       continuing the sort of hard looks that the Commission has  
7       been taking at the programs and doing due diligence on them  
8       and really, you know, kicking the tires as you approve or  
9       reject programs is what needs to continue.

10              MR. FLORIO: Yes. I think the first thing, and  
11       Pedro already mentioned it, but I think it bears repeating,  
12       if we're going to rely on demand response we have to  
13       acknowledge it in presentations like we had today. And  
14       consistently it's ignored. And the signal that sends to me  
15       is nobody really believes this.

16              You know we talk about it, we say it's important,  
17       but when we do an analysis we ignore it. And what that says  
18       to me is I'm paying, you know, hundreds of millions of  
19       dollars for interruptible discounts, but we're never going  
20       to see the benefit of that because we're planning as if load  
21       wasn't interruptible, and that's a problem. That's a big  
22       problem.

23              I think we have things like AC cycling that are  
24       proven effective programs that are not being exploited to  
25       the -- to the full degree they could be. Edison is the best

1 in that regard, but PG&E doesn't even have such a program.  
2 And I'm -- I'm much more comfortable, and maybe it's my ISO  
3 background showing through with dispatchable type programs  
4 than I am, you know, guessing at what somebody's price  
5 response is going to be.

6 I'm just not that confident that the price  
7 elasticity is really going to be there in a way that does  
8 anything more than charge customers a lot of money. And I  
9 would rather see the types of things like interruptible and  
10 AC cycling that we know work.

11 CPUC PRESIDENT PEEVEY: Well, on that point,  
12 though, I mean just to be very clear here. We've approved  
13 for Edison and PG&E a 20-20 program again this year. There  
14 was a gap of a couple of years. It's back again. We know  
15 what we achieved in 2001 and 2002 with that 20-20 program.  
16 One-third of residential customers in the Edison service  
17 territory met that test. Another third didn't get to the  
18 20, but they got above zero and all that.

19 So that's a measurable -- you know, we know within  
20 a very narrow band, I think, what that will do this year.  
21 And yet it's not in the ISO number, the interruptible is not  
22 in the ISO number. And there are other demand-response  
23 programs that's not in the ISO number, I agree with him  
24 entirely.

25 On top of that also not in the ISO number is

1       there's a significant megawatt sitting in DWP. That's Los  
2       Angeles DWP. They don't want to have anything to do with  
3       the ISO for reasons that are, you know, regrettable and we  
4       can't deal with here, but it's sitting there.

5               So I always have this problem with the portrayal  
6       of Southern California in the manner that it's done, because  
7       I do think that it overstates the acuity of the problem and  
8       understates the potential to deal with it that we know how  
9       to -- that we know how to do here in California.

10              FERC CHAIRMAN WOOD:   Yakout.

11              CAISO PRESIDENT MANSOUR:  I want to make two  
12       points. One of them is a clarification and the other one is  
13       caution.

14              The clarification is for the purpose of the  
15       simulation that the ISO is conducting and we should have the  
16       report out very soon. This is on the hot summer day  
17       simulation. We will not be counting on anything as a matter  
18       of course if it is not scheduled in the simulation. So  
19       we're only going to count the ones that are scheduled --  
20       those also that are scheduled by the scheduling coordinator.

21              So this is just to expose the issue and keep us as  
22       much as possible away from having to use must-offers and so  
23       on. So that's just for clarification.

24              The second point is load displacement. And,  
25       again, it can come in different ways. Interruptible load is

1 a good thing in theory. And, you know, in theory, theory  
2 and practice are similar. In practice they are not.

3 The interruptible load is something you can rely  
4 on to some extent. It has operational difficulties. It is  
5 not that convenient for the large amount. And usually when  
6 you put an offer for interruptible load you get offers from  
7 those that are easiest to interrupt. Those also happen to  
8 be exactly the ones that we rely on in emergencies.

9 Now if we're going to count on load interruption  
10 of that type as a matter of course for normal planning, our  
11 cushion for emergencies is less and less and less. So as  
12 much as I expect as much as we can use it, but you don't  
13 want to get to the point where every time you have a problem  
14 you could just kind of cut half of the load. You're almost  
15 like, I don't want to say, like almost a Third World  
16 performance. It's just -- that's not what it is.

17 So if we have to, we have to. But there's no  
18 substitute for additional resource, and this is why we kind  
19 of say, yes, we respect the load interruption, but don't  
20 just push it beyond the envelope where the operators will  
21 have a very difficult times with it, especially where it  
22 comes in an excessive amount.

23 FERC CHAIRMAN WOOD: We are over time. Let me  
24 tell you what's driving -- a former CPUC President, Don  
25 Vile, recently passed away and his memorial service is this

1 afternoon, I believe, at 4:00 across the Bay.

2 CPUC PRESIDENT PEEVEY: 5:00.

3 FERC CHAIRMAN WOOD: At 5:00 across the Bay, so  
4 that's what's driving our time line.

5 So if you all could kindly please get a little bit  
6 of nourishment if you so choose, and why don't we reconvene  
7 here at 45 past the hour to do our afternoon panel. Thank  
8 you.

9 (Luncheon recess taken from 1:05 p.m. to 1:58  
10 p.m.)

11 FERC CHAIRMAN WOOD: I'd like to welcome everybody  
12 back. And if you will go ahead and grab a seat and pipe on  
13 down, we'll get started with the afternoon panel.

14 So, Jamie.

15 TRANSMISSION

16 MS. SIMLER: Okay. Our afternoon panel is on  
17 transmission. Kind of the general theme is who's building  
18 and why, what are the obstacles, who's putting up the money.

19 We're going to start this panel with three  
20 approximately five-minute presentations or so by the staff  
21 of -- staffs of the Cal ISO, the CEC, and the CPUC to kind  
22 of put the framework for their roles in getting transmission  
23 investment. And then we'll proceed with our panelists, who  
24 have been asked to give three-minute comments, and then  
25 we'll have Q&A. Thank you.

1           And with that I guess we're going to start with  
2           Armie Perez from the Cal ISO.

3           MR. PEREZ: Good afternoon, Chairman Wood,  
4           President Peevey, Commissioners, Mr. Mansour, sir.

5           (Laughter.)

6           MR. PEREZ: I've been asked to tell you the role  
7           of the ISO in transmission planning. I will try to do that  
8           in the five or six minutes given to me.

9           Basically the PTOs at the present time submit bulk  
10          power plans on a yearly basis to us. The plans are created  
11          through an open stakeholder process, which is administered  
12          by the ISO.

13          The ISO reviews the projects that are being  
14          submitted on four bases: Determination of whether the  
15          project is really needed, what alternatives were considered  
16          to the project, the cost of the alternatives, and whether  
17          the solution is effective in trying to solve the problem  
18          that has been created. And then projects are either  
19          approved or denied.

20          After all of the bulk power programs are put to  
21          bed, then we do a separate control area to make sure that  
22          everything seems -- fits seamlessly together between the  
23          three PTOs.

24          Projects are approved by the California ISO, must  
25          go then into the CPUC and for a Certificate of Public

1 Convenience and Necessity. And we will support the project  
2 through the CPUC process.

3 Some of the other little items that we do is  
4 something called RMR, which I think you heard a lot of it  
5 today. We review generator intake connection studies that  
6 are done by the PTOs. And we're very active in  
7 transmission, regional transmission studies.

8 Regarding regional transmission studies, we have  
9 basically four different subgroups: NTAC which deals mostly  
10 between California and the Northwest entities and within the  
11 Northwest itself. RMATs which deals mostly with Wyoming,  
12 the Montana-Utah area. STB which is extremely active. One  
13 deals between California, Arizona, and Nevada. I keep  
14 looking back. And SWD which deals between Arizona and parts  
15 of Colorado.

16 We have been in a need for quite a while to  
17 develop a methodology for new transmission analysis, and we  
18 have done that. It's called TEAM for -- TEAM, Transmission  
19 Expansion Aisles Methodology. It is based on a production  
20 cost simulation and it takes into account stuff like market  
21 power issues. We do analysis studies for different  
22 scenarios and it's based on a complete and full detail work  
23 about the CCC network.

24 This methodology has been submitted to the CPUC  
25 for consideration and it's expected that all the projects of

1 the ISO will do -- or studies presented to the ISO for  
2 approval will be using this methodology.

3 This methodology was very actively used in the STB  
4 process, which has resulted in the recommendation to improve  
5 several 500 kV lines in California and Arizona, and also the  
6 recommendation of a brand new 500 kV from the Phoenix area  
7 to the Palm Springs area with an operating date of 2009.  
8 And this project is now in front of the CPUC.

9 So you can see the ISO grant planning process is  
10 working well in some areas. The reliability of the grid is  
11 being maintained and it's improving in some areas where  
12 economic -- but -- it's being maintained and improving in  
13 some areas where economic analysis is being used to  
14 determine economic opportunities to reduce ratepayer costs.

15 The big question is even though the process is  
16 improving, do we need more improvement? And the answer to  
17 that is absolutely a yes.

18 Reliability and economics go hand-in-hand, as Mr.  
19 Mansour mentioned to you this morning. And he will shoot me  
20 if I try to make that separation from now on, which I will  
21 not. But we need to build a grid that is both reliable and  
22 efficient. We need to move the power from the generators to  
23 the loads.

24 As we mentioned several times today, we have over  
25 close to a billion dollars worth of expenditures this -- in

1 2004 related to RMR congestion and congestion costs. There  
2 are a lot of fixes that can be done that are very  
3 inexpensive and have a very fast pay back.

4 For example, we put a new transformer at Mira Loma  
5 Substation. The payback for that was 16 months. We did a  
6 reconductor in a Mira Loma transmission line. Payback was  
7 five months. There are lots of projects like this that  
8 needs to be done but are now being proposed.

9 So what are we doing for additional work? We are  
10 concentrating in the generation side, the locational  
11 generation side. We're going to increase our efforts to try  
12 to identify longterm locational generation capacity needs  
13 and transmission projects to eliminate those needs and to  
14 make sure that the proper incentive exists for generators to  
15 look at optimal locations within those pockets.

16 One of the problems we have had is a project I  
17 think that needs to be addressed by FERC at some time in  
18 time, is if we're going to have generation be truly  
19 competitive with transmission it has to be located in the  
20 right areas. But right now there's no methodology available  
21 to make a locational payment to a generator that can be  
22 recovered by the utilities.

23 The transmission side. The ISO recognizes the  
24 PTOs don't have all the information they need to do proper  
25 planning, and sometimes we do. We recognize it is a

1 collaborative process between the PTOs and the ISOs, but we  
2 need to build a straight infrastructure and we need to  
3 reduce RMR costs and congestion costs, so we plan to do the  
4 following things.

5 First, we will be publishing an annual  
6 comprehensive longterm transmission plan. Second, projects  
7 proposed by the PTOs will be evaluated rigorously against  
8 the published plan. Any projects that appear in the ISO  
9 plan but are not included in any of the PTOs plan will be  
10 offered back to the PTOs for a right of first refusal. If  
11 they do not want to or decide not to build a project, they  
12 will be offered to a third party.

13 And next year's plan will have a target reduction  
14 cost on a yearly basis until the overall cost is down to a  
15 reasonable level.

16 That's the end.

17 MS. SIMLER: Comments, questions. Anybody have  
18 questions for Armie or do you want to hold to the end?

19 Okay, great.

20 All right. Next up is Sean Gallagher subbing in  
21 for Tom Flynn at the CPUC.

22 MR. GALLAGHER: Good afternoon. I'm Sean  
23 Gallagher. I'm the Director of the Commission's Energy  
24 Division. I'm pinch-hitting for Tom Flynn of our staff who  
25 wasn't able to make it this afternoon.

1           I want to talk a little bit about the CPUC's role  
2           in transmission expansion and permitting. And, as Armie  
3           mentioned, much of the responsibility for transmission  
4           planning falls on the shoulders of the ISO and the  
5           transmission owners, but the PUC is also proactive on  
6           transmission.

7           We don't just wait around here for a utility  
8           proposal to fall on our doorstep. In recognition of the  
9           need for timely additions to new infrastructure in  
10          California, we try to be quite active.

11          For example, our staff participates in  
12          transmission planning forums and working groups, some of  
13          which Armie mentioned, STEP, for example. There's also a  
14          working group looking at San Francisco transmission issues  
15          that are staff participates in. There is a working group  
16          down in Imperial Valley looking at transmission issues that  
17          are staff participates in. And this gives us sort of a  
18          heads-up and a head-start when planning and when projects do  
19          come into us. We're aware of the issues that are involved  
20          in getting projects built in those areas.

21          The PUC since 2001 has had an ongoing proceeding  
22          into investigating transmission constraints in California  
23          and getting projects moving to resolve those constraints.  
24          That proceeding has resulted in a number of projects. I  
25          believe Jefferson-Martin is one of them.

1           We have a rulemaking on transmission streamlining  
2           which I believe Armie mentioned. The TEAM methodology that  
3           the ISO has developed has been submitted in that proceeding.  
4           And the point of that proceeding really is to try to enable  
5           the PUC to make better and quicker work of the work that the  
6           ISO does in determining the need for transmission lines so  
7           that we can more expeditiously process transmission siting  
8           applications when they arrive here.

9           We have also been very aggressive on renewables.  
10          Many of you are aware of the work the PUC has done in  
11          promoting and facilitating renewable transmission in the  
12          Tehachapi area. And the PUC is involved of course in  
13          longterm procurement. The PUC is responsible for reviewing  
14          and approving utilities' longterm procurement plans.

15          One of the elements of those procurement plans is  
16          for the utilities to identify transmission upgrades to us  
17          and -- transmission upgrades and additions that are  
18          necessary to support the resource plans.

19          We of course also coordinate with the ISO on their  
20          longterm grid planning and with the CEC in their planning  
21          efforts. And one of the -- one of the ways that we attempt  
22          to do that is through this transmission streamlining  
23          rulemaking that we have.

24          One of the things that we've done on the renewable  
25          front is there is a Tehachapi study group which is

1 aggressively trying to push the process forward to ensure  
2 that all the planning gets done in a coordinated fashion so  
3 that projects can be brought to the Commission in a timely  
4 and coordinated basis, and avoid permitting issues, CEQA  
5 issues like piecemealing, and get those projects built in a  
6 way that will really bring that generation online out there  
7 in a timely way.

8           There are a number of projects under study that we  
9 have here that are projects that have not been proposed to  
10 the PUC for approval but, rather, are in the sort of study  
11 process. These include three or four Tehachapi projects.  
12 There is a Salton Sea geothermal line that we're taking a  
13 look at and there is also a substation out in the Delta that  
14 we're looking at.

15           On the permitting front, electrical corporations  
16 in California are required to obtain a permit from the PUC  
17 in order to build transmission. And of late we have  
18 approved a number of important transmission projects. They  
19 include the San Diego Mission Miguel Project that will be  
20 online in a temporary manager this summer. I believe that's  
21 supposed to come on July 4th or July 1st. That'll increase  
22 the import capacity in the SP15 area, and that was one of  
23 the things that Jim Detmers mentioned earlier.

24           We've approved the Edison Viejo Project. We've  
25 approved the PG&E Jefferson-Martin Project, which will

1 significantly improve reliability on the San Francisco  
2 Peninsula.

3 There are also a number of very large transmission  
4 projects that are in front of us now. We've got the Otay  
5 Mesa 230 kV Project that will interconnect the new Otay Mesa  
6 Generating Facility with the San Diego load area.

7 There is the Devers-Palo Verde II line that --  
8 that Armie mentioned a few minutes ago.

9 There are the first two phases of the Tehachapi.  
10 We call them now Antelope-Pardee and Antelope-Tehachapi.  
11 The schedule on the -- what used to be called Antelope I are  
12 now called Antelope-Pardee is that the draft EIR will be out  
13 this fall. And on the second part of that, we now call  
14 Antelope Tehachapi Vincent, we're looking for Edison to  
15 complete its necessary preliminary filings this summer or  
16 this fall.

17 And then there's a number of smaller projects that  
18 are in as well I won't bore you with. And that's the end.

19 MS. SIMLER: Thanks, Sean.

20 And now we're going to hear from Don Kondoleon  
21 from the Energy Commission.

22 MR. KONDOLEON: Good afternoon. I'm Don  
23 Kondoleon. I'm the Transmission Program Manager with the  
24 California Energy Commission. I want to thank you for  
25 inviting the Energy Commission to participate in this panel.

1           I want to speak a little bit about the  
2 Commission's Integrated Energy Policy Report.

3           Legislation was enacted in 2002 that requires the  
4 Energy Commission to prepare an Integrated Energy Policy  
5 Report, now dubbed the "Energy Report," every two years with  
6 annual updates. The initial report was to be completed by  
7 November 1 of 2003.

8           Now with regard to transmission. The Energy  
9 Report includes an assessment of California and western  
10 regional electricity and transmission capacity and use. In  
11 conducting this assessment, staff was to ensure that  
12 decisionmakers have the qualitative and quantitative  
13 information to make informed decisions that are  
14 understandable to the public to ensure that stakeholder  
15 involvement is effective, appropriate, and timely; to ensure  
16 that the transmission effort integrated with work in other  
17 project areas; and to provide a complete report for the IEPR  
18 Committee to develop the Energy Report.

19           Now for the 2005 Energy Report, staff will focus  
20 on four areas for its transmission assessment. The first  
21 area includes an overview of California's transmission  
22 system status that includes an examination of local are able  
23 to concerns; an examination of congestion concerns,  
24 particularly those in Southern California; and the ability  
25 to connect renewable resources.

1           The second area is an assessment of nearterm and  
2 longterm transmission projects and paths that includes  
3 intrastate projects, such as the San Diego Gas & Electric  
4 500-kV interconnect and the Transbay Cable; interstate  
5 projects, such as the Devers-Palo Verde II Project; and  
6 renewable projects, such as the Tehachapi upgrades and the  
7 Imperial Irrigation District Green Path Initiative.

8           Area 3 is an examination of the impact of  
9 transmission on renewable development. And that includes  
10 identifying renewable operational system integration issues  
11 and developing recommendations for the mitigation of those  
12 issues. Now this is an important area because of the fact  
13 that 4,000 megawatts of wind potential exist in the  
14 Tehachapi region, yet interconnection of this large quantity  
15 of intermittent resources causes some concerns to the system  
16 operators and planners.

17           The fourth area that will be undertaken is an  
18 identification of corridors to meet longterm needs, and that  
19 includes examination in the San Diego-Imperial Valley area  
20 and the area north of Tehachapi.

21           Now staff's transmission assessment will be  
22 derived from information provided by not only the California  
23 Invested-Owned Utilities and the California Independent  
24 System Operator but also from the California municipal  
25 utilities, federal power marketers, and out-of-state

1 parties. In addition, supplemental information has been  
2 provided through the four transmission workshops that have  
3 been held throughout the process. These workshops typically  
4 include panel discussions in order to allow for greater  
5 participation by all stakeholders.

6 The results of this year's assessment will be  
7 documented in staff's Transmission Report that will be  
8 released in mid-July 2005 and be subject of a workshop at  
9 the end of July.

10 Now as a result of legislation enacted in 2004 the  
11 Energy Commission is now required to prepare a Strategic  
12 Transmission Investment Plan that will be prepared in  
13 concert with the Biennial Energy Report. Staff's  
14 Transmission Report will provide the foundation for the  
15 development of the Strategic Plan.

16 It's the goal of the plan to ensure that the  
17 investment community has the transparency and certainty it  
18 needs to stimulate investment in transmission. The 2005  
19 Energy Report and Strategic Transmission Investment Plan are  
20 scheduled for completion by November 1 of 2005.

21 Now all of the notices, reports, presentation,  
22 comments from the staff's activities in developing the  
23 reports from 2003 to 2005 are available on the Energy  
24 Commission website at [energy.ca.gov](http://energy.ca.gov).

25 And that concludes my presentation.

1 MS. SIMLER: Great. Thanks, Don.

2 With that background information of the three  
3 entities responsible for transmission, if you will, in  
4 California, we'll start with our panelists. And we'll start  
5 with Dave Parquet of Babcock and Brown.

6 MR. PARQUET: Commissioners, thank you. Nice  
7 seeing many of you again. I appreciate the opportunity to  
8 make some comments.

9 As Jamie indicated, my name is Dave -- David  
10 Parquet. I'm Vice President at Babcock and Brown. And  
11 Babcock and Brown is an investment bank financial advisor  
12 and infrastructure-development and investment company.

13 We participated in many billions of dollars of  
14 energy projects, including, just by way of example, a very  
15 similar project to one I'm going to discuss right now, and  
16 that's a project that interconnects the island of New  
17 Zealand with -- or Tasmania with the mainland in Australia.

18 I'm going to talk about -- I'm going to address  
19 many of the points in the agenda by providing a specific  
20 commentary on an example of a project that we are  
21 implementing right now. It's a transmission project that  
22 we're developing in the San Francisco Bay Area in concert  
23 with the City of Pittsburg. The name of the project is the  
24 Transbay Cable Project. It is a 55-mile, underwater, high  
25 voltage, direct-current transmission line which will connect

1       Pittsburg to San Francisco.

2               Why high voltage direct current? Because HVDC can  
3 address issues in ways that AC cannot. And this particular  
4 problem that we are attempting to solve is a unique one that  
5 HVDC is specifically attuned to.

6               We feel the project will fill the longterm load-serving  
7 needs of San Francisco and while so-called  
8 completing the Bay Area transmission loop, it will  
9 inherently provide greater security and reliability for the  
10 transmission system.

11              Finally, we feel it has significantly less  
12 environmental impacts than other longterm alternatives that  
13 are presently being considered. That's very important in a  
14 heavily populated area like the Bay Area.

15              As to the approval status of the project, there  
16 are two: The Cal ISO in concert with the San Francisco  
17 Stakeholder Study Group, which was a body formed by the ISO  
18 in 1999 to address just these types of problems in San  
19 Francisco, is reviewing the reliability features and  
20 cost-effectiveness features of our project precedent to a need  
21 determination.

22              Our analysis indicates, in deference to Yakout,  
23 that it's an economically viable reliability project. And  
24 the reason is, is that we feel that the benefits exceed its  
25 cost subject to the efforts now underway at the ISO to

1 confirm them, because it will relieve congestion from the  
2 East Bay and also it will reduce losses because the power no  
3 longer has to go around the bottom of the Bay and up San  
4 Francisco Peninsula. It can shortcut directly to the load.

5 FERC is also now considering a letter agreement  
6 that we had proposed which defines certain rate principles.  
7 If these two approvals are obtained in July, as anticipated,  
8 the project is expected to be in service in late 2008.

9 Addressing some of the points in the agenda. This  
10 project is made possible by a cooperative effort among  
11 Babcock and Brown; the City of Pittsburg -- that's  
12 Pittsburg, California for those of you that aren't familiar  
13 with the Bay Area; and its municipal utility, Pittsburg  
14 Power Company.

15 Pittsburg is a site of an important East Bay  
16 substation which has access to significant transmission.  
17 Also located nearby are several large merchant power plants  
18 and several small power plants. And Pittsburg has  
19 undertaken successful partnerships with private parties in  
20 the past. We saw a lot of benefits in creating this  
21 public-private partnership with Pittsburg as a vehicle to solve  
22 the  
23 San Francisco infrastructure problem.

24 This partnership has allowed the project to  
25 proceed to this point. The structure is very much like the

1 Path 15 upgrade project, but in our case a city municipal  
2 entity as opposed to a federal entity will own and control  
3 the assets. And B&B, the private entity, will provide the  
4 development funding and the financing and take the cost  
5 risk.

6 But as in Path 15, all transmission rights will  
7 alternatively be turned over to the ISO for their control.  
8 And this vehicle allows to abridge a critical gap in the  
9 present infrastructure in San Francisco.

10 We need the active assistance of regulators like  
11 yourselves who want to help meet electric infrastructure  
12 needs in California in the coming decades. Locating any  
13 project of this magnitude in a heavily populated area like  
14 the San Francisco Bay Area is extremely challenging.  
15 Logistical, permitting, technology, environmental justice,  
16 political and other issues are very, very demanding.

17 We at B&B conceived the idea of this project,  
18 developed it, implemented it -- are now implementing it with  
19 our partners in Pittsburg totally at our risk. It bears  
20 indicating that if this project is not energized, regardless  
21 of approvals, ratepayers will not see one single dime of  
22 cost.

23 We urge all policymakers from various agencies to  
24 encourage vehicles like ours, a public-private partnership,  
25 and like the Path 15 project, for transmission development.

1 Such partnerships can solve difficult transmission problems,  
2 as was seen on Path 15 and we hope we will see on ours.  
3 Such partnership can get needed facilities constructed.  
4 They shift risk away from ratepayers and toward the private  
5 party.

6 Private parties are willing to take those risks  
7 provided they are compensated for them. While still  
8 preserving, at least in many of the structures that we've  
9 noticed, regulatory oversight to assure prudently-incurred  
10 costs. That is part of our project as well.

11 It is paramount that regulatory agencies work  
12 together and avoid turf battles that have bedeviled projects  
13 in the past, usually over jurisdictional issues.

14 From a transmission-development business point of  
15 view, a few additional comments from this private party. We  
16 need a predictable process, where new ideas are respected as  
17 just as viable as those of the local utility.

18 You heard Armie mention a little bit about that in  
19 his -- in his talk about the process if the IOU didn't  
20 decide to do it, then it would be reverted to private  
21 parties, for example. Why not do that first, or allow new  
22 ideas to be respected status quo with the utilities' ideas?

23 We are grateful, grateful that that is occurring  
24 right now on the ISOs' evaluation process. We are being  
25 evaluated right next to the other proposed alternatives that

1 are on the table, but we need to understand the risks.  
2 Where there is an expectation of a return commensurate with  
3 the risk and the process, the result will be we'll all get  
4 more critically-needed infrastructure developed in  
5 California and the West, because private -- there are  
6 private parties out there who are willing to take this risk,  
7 invest their funds, totally at risk to their success,  
8 provided there is a process that makes sense.

9 So far we have been treated very, very nicely in  
10 the Bay Area with the ISO's process and we look forward to  
11 its successful conclusion. Thank you.

12 MS. SIMLER: Great. Thanks.

13 Steve Metague with PG&E.

14 MR. METAGUE: Thank you, Jamie.

15 I'm Steve Metague with Pacific Gas & Electric and  
16 I'm pleased to be here with you this afternoon. PG&E  
17 supports and appreciates this open opportunity and exchange  
18 of information. And I'm sure it's to the benefit of our  
19 customers and all energy consumers in California as we work  
20 together to solve some of these tough problems we've been  
21 hearing about today.

22 I'm -- in my brief remarks I'm going to summarize  
23 some recent things that PG&E has been doing to expand the  
24 electric transmission infrastructure in California. I'll  
25 have some remarks about planning and siting, and some

1 recommendations on some nearterm steps in those areas, as  
2 well as ratemaking. And I'll have some recommendations for  
3 ratemaking for transmission as well.

4 First let me summarize with the recent activities  
5 of PG&E. In the last five years we have doubled our  
6 expenditures in transmission, electric transmission compared  
7 to the previous five years. We're currently spending about  
8 \$400 million a year on transmission improvements.

9 Some of the recent major upgrades in the Northern  
10 California area include the Trivalley Project, the  
11 Jefferson-Martin Upgrade, the Northeast San Jose Project.  
12 Many of these projects and others were on the map that Jim  
13 Wright shared with you this morning.

14 In addition, in December of last year, the Path 15  
15 Project became operational. And that was a partnership  
16 between PG&E, the TransElect Company as well as Western Area  
17 Power Administration.

18 Let me turn now to siting and planning issues.  
19 PG&E is pleased that the energy organizations within the  
20 state of California seem to be cooperating and working  
21 better than ever together. The Energy Action Plan was  
22 certainly a good signal of movement in that direction.

23 More recently, the CPUC in a transmission OIR  
24 proceeding recognized the need that -- or the requirement  
25 that transmission-need determinations be done only once.

1 And PG&E absolutely supports that and believes those need  
2 determinations should be done at the California ISO.

3 I'd also like to mention that PG&E is heartened by  
4 the recommendation of Armie Perez just moments ago. He  
5 alluded to information that the utilities need in order to  
6 make good transmission-planning decisions. And I think what  
7 he is proposing has some promise in that area. Most  
8 specifically, PG&E has been haunted by the concern that  
9 upgrades to the transmission systems may not deliver  
10 reductions in RMR. We're very, very interested in that  
11 occurring. And we have had discussions with the ISO and it  
12 seems like they are listening. So we really appreciate that  
13 recommendation this morning.

14 Relative to our ratemaking, I just have a couple  
15 of very brief remarks. Despite the fact the investment I  
16 alluded to earlier in PG&E's service area has been at  
17 unprecedented levels, it's become clear from this morning's  
18 discussion and from earlier documents that still more is  
19 needed. And PG&E would like to propose that the FERC  
20 consider three specific actions in the ratemaking arena.

21 One of them is that -- it would be helpful to  
22 revise the current abandoned-plant treatment, particularly  
23 for projects that receive ISO or RTO approval.

24 I would also suggest that improvements in allowing  
25 the utilities to opt for a more rapid depreciation life of

1 assets rather than the 40 to 50 years that transmission  
2 assets current receive in traditional ratemaking. And I  
3 believe it's also appropriate to provide enhanced rates of  
4 return at least on incremental assets and perhaps only as a  
5 transitional make sure, but to do that now, to make sure  
6 that the needed infrastructure in California is brought  
7 forward.

8 In summary, I think the State is moving in the  
9 right direction. We look forward to the coordination and  
10 improvement on need determinations that come to bear in the  
11 siting process at the Public Utilities Commission. We're  
12 pleased by the ISO's proposal. That may be very helpful, I  
13 believe, in the area of RMR reduction. And I'm hoping that  
14 the FERC will consider our remarks in the, as I understand  
15 it, soon-to-be-released incentives proposal policy statement  
16 that may be coming out in June, this month.

17 So with that I'll thank you and be ready for  
18 questions or comments as we proceed.

19 MS. SIMLER: Thanks, Steve.

20 Chris.

21 MR. LESLIE: Thank you. Chairman Wood, President  
22 Peevey, Commissioners, Mr. Mansour, good afternoon. My name  
23 is Chris Leslie. I'm an Executive Director with Macquarie  
24 Securities in New York.

25 I'd just like to apologize in advance, though I do

1 have to leave just before three o'clock, so I'll give you  
2 that warning.

3 Just to introduce Macquarie to the broader  
4 audience today, we're an Australian-headquartered investment  
5 bank. We have about 20 billion U.S. dollars under  
6 management in the ownership of infrastructure around the  
7 world, including electricity transmission systems: The  
8 AltaLink System in Alberta, the Michigan Electric Transco  
9 System in Michigan, both which also involve TransElect.

10 Importantly, in the California context, we were  
11 the financial advisor to TransElect on the Path 15 Project.  
12 And we were also an early-seed investor in that project.  
13 More broadly in California, we're also building the SR125  
14 toll road in San Diego.

15 So with that backdrop I guess our presentation  
16 today is that of an investor in infrastructure. And having  
17 the experience from Path 15 and I think one of the messages  
18 we'd like to convey is that really at this moment in time  
19 there's unprecedented appetite amongst the investment  
20 community, and we could call them the independent financial  
21 investor community as distinct from the utilities, shall we  
22 say, for large, well structured transactions in the  
23 transmission sector.

24 Don't let anybody tell you that there's no money  
25 sort of on the independent side because there -- the world

1 is awash with it, essentially.

2 Both for system transactions, which we've seen a  
3 couple of on a national basis, but I think due to some  
4 impediments at a structural level, we don't actually expect  
5 to see system transactions in the near future. And  
6 certainly in California we wouldn't expect broad-base  
7 divestment of utility assets any time soon. But I think  
8 there's certainly a role for the independent investors to  
9 play both at the project level, such as the Path 15 Project,  
10 and the Bay Area Project that Babcock's pursuing.

11 And I'd also echo David's comments that the  
12 private sector is very willing to put a lot of money at risk  
13 and to insulate ratepayers from that risk provided there is  
14 the corresponding regulatory certainty. And there's nothing  
15 worse than uncertainty.

16 We're a global investor, and there are plenty of  
17 projects in the world. This is not any kind of threat to  
18 California, but if California doesn't appear to be a  
19 suitable place to invest, then -- then the money will go  
20 elsewhere. However, I think there are very encouraging  
21 signs. And I think the fact that we have the CPUC and the  
22 FERC on the same panel is very encouraging for California.

23 I think the -- the other role that the independent  
24 financial players can play together with independent  
25 companies is on more of a regional basis.

1           So whereas the utilities inevitably have a  
2 confined geographic footprint within which they work, the  
3 independent players may be able to participate to solve some  
4 of the more regional issues. And I think historically  
5 California has played a leadership role in deregulation of  
6 electricity. Obviously the experiment wasn't a particularly  
7 happy one, but the world certainly took notice.

8           And I think if you look at the world's  
9 deregulation of electricity, they took the lead from  
10 California. So I think it's now time for California to --  
11 to take the lead again. And I think the Commission here in  
12 California can certainly take a role in spearheading  
13 regional coordination of transmission and take a leadership  
14 position in that regard.

15           I think there are obviously large dollars to be  
16 spent. And we heard this morning in the context of  
17 obviously the resource -- the resource side of the equation  
18 that, as I think Bill Hogan of the Kennedy School said:  
19 Market participants cannot solve the problem of market  
20 design. And that's something that we would -- we would echo  
21 here.

22           Certainly it's difficult for the individual  
23 participants at a local level to solve, for example, the  
24 market design in California. I think it's doubly difficult  
25 for local market participants to solve regional problems.

1           And so we'd encourage the Commissions both at the  
2           -- the federal and the state levels to cooperate to provide  
3           a framework for regional solutions that -- that allow a high  
4           degree of certainty for independent investors. And in the  
5           event that that transpires, then I would say that there is  
6           certainly a considerable amount of financial resources  
7           available to implement those projects on a regional basis.

8           Thank you.

9           MS. SIMLER: Thanks, Chris.

10          Picking up on your theme of sort of regional  
11          cooperation, we've got Jerry Smith from the Arizona  
12          Corporation Commission.

13          MR. SMITH: Good afternoon, Chairman Woods,  
14          President, Commissioners, and Mr. Mansour.

15          I suppose the question might be why is Arizona  
16          sitting here before you today. And I think there are a  
17          probably a couple of reason.

18          One reason I think we have been asked to be a part  
19          of this panel is our state does have some resources that  
20          could be of shortterm value and importance to California,  
21          provided there is transmission in place to deliver it.

22          Secondly, our state has been very active and  
23          effective in getting infrastructure constructed in our state  
24          over the last few years. We're one of the states that could  
25          be guilty of the paradigm of build it and they will come

1 regarding generation plants.

2 We do have some natural gas fired plants sitting  
3 ready to deliver and unable to reach market effectively  
4 during the most needed period of time for those deliveries.

5 Secondly, we have been very successful in getting  
6 transmission infrastructure constructed to meet the needs of  
7 the state of Arizona, but we are recognizing that the  
8 wholesale market needs may not being effectively attended  
9 to, as we look at how do we deliver from the plants that are  
10 being constructed to the larger market.

11 I suppose much of what I heard today would be  
12 quite similar to being on the deck of the Titanic, listen to  
13 a debate of who paid what price for what ticket. It's my  
14 sense from the comments we've heard today that the source of  
15 the demise and the crisis, both from 2000 to 2001 and that  
16 pending over the next couple of years, is one of lack of  
17 infrastructure, both generation and transmission.

18 Arizona is not that much different than California  
19 in terms of its load growth and the challenges. We also  
20 have reliability, must-run regions in our state. And we  
21 have been working hard to arrange ways of building ourself  
22 out of an excessive dependence on local generation to  
23 resolve those transmission-delivery issues.

24 And I would suggest that any resource-adequacy  
25 plan that commits to a resource-procurement process that

1 does not demonstrate deliverability may also be equally  
2 flawed.

3 I would suggest that the experience we've had in  
4 Arizona is one that we realize that the market can be  
5 successful, most successful when the reliability and  
6 adequacy interests of the system aligns with the commercial  
7 interest of the market. And, in fact, one of the  
8 fundamental challenges that the industry's been facing  
9 during restructuring is that these two components have been  
10 in a tug-of-war to establish which of those principles would  
11 be overriding and adhered to.

12 And I would suggest to you that they need to be  
13 both be complementary for there to be success. And we have  
14 experienced that in large scale at the Palo Verde Hub, which  
15 sits on the seam between Arizona and California, with major  
16 generation, new generation interconnected via trunklines.  
17 And I realize trunklines is a hot topic in California right  
18 now, but what we have found is while those trunklines have  
19 done an effective job of addressing the commercial interest  
20 of the plants and the market, it has left us exposed with  
21 some reliability concerns and risk.

22 And, in fact, we've had outages over the last two  
23 summers that have underscored the appropriateness of there  
24 being concern about the reliability of a large hub with  
25 trunkline connections of power plants.

1           As a result, the Arizona Commission is looking  
2           towards evolving to a different hub configuration by  
3           encouraging future transmission line interconnections to be  
4           with the power plants rather than with the common bus at the  
5           hub. This will reinforce reliable service while still  
6           achieving the commercial interest of having a tariff-free  
7           transmission zone at the hub.

8           I would suggest maybe that some of that same  
9           concept might be of use and value in California as you're  
10          looking at locations where you choose to interconnect large  
11          numbers or large quantity of megawatts. Otherwise you may  
12          find yourself as Arizona is, the loss of one major  
13          switchyard could result in interruption in service of  
14          multiple generators in excess of what the reserve  
15          requirement is for the West as a whole.

16          I think I will reserve the rest of the time for  
17          questions and allow the other panelists to make their  
18          points. Thank you.

19          MS. SIMLER: Thanks, Jerry.

20          Brian Silverstein with the Bonneville Power  
21          Administration.

22          MR. SILVERSTEIN: Commissioners, thank you very  
23          much for the opportunity to participate on the panel. My  
24          name is Brian Silverstein. I'm the Vice President of  
25          Operations and Planning at Bonneville in Vancouver,

1 Washington.

2           Since we came to the turn in the millennium it had  
3 been nearly 15 years since Bonneville built a major  
4 transmission line. And we were spurred into action by a  
5 combination of the energy crisis in the West and the  
6 exposure that we felt we were facing for catastrophic  
7 failures on our system without making a transmission  
8 investment.

9           So in 2001 we put together an infrastructure  
10 program in cooperation with the various stakeholders in the  
11 region. And I'd like to share just three things with you in  
12 my comments today: What we accomplished, how we did it, and  
13 a suggestion on what we can do to make the process better in  
14 the future for building transmission.

15           So basically the outcome was over the last four  
16 years, we invested about \$1 billion in transmission. Half  
17 of that money is in six major projects. That's six out of  
18 the 20 that we identified. We built 160 miles of 500-kV  
19 transmission. We modernized a 3100-megawatt DC terminal in  
20 Oregon that links up to our counterpart in the City of Los  
21 Angeles. And also many local support projects as well.

22           And the hot issue for us today in the transmission  
23 arena is interconnecting various wind projects that are  
24 scrambling to come online by the deadline of December 31st  
25 to receive their production tax credit. And we expect to

1 have several hundred megawatts of new wind projects online  
2 by the end of the year in the Northwest.

3 So how did we do this? It was -- basically could  
4 not have been done without an open process, a stakeholder  
5 process to examine the transmission needs and put the plan  
6 together. So everyone was at the table. We reviewed the  
7 needs, we looked at the alternatives. We developed the  
8 business case.

9 And this is really important, because now that  
10 those projects are completed, we have to pay the piper. And  
11 we are just completing our rate case now, which we settled  
12 for a 12-and-a-half percent increase in transmission rates.  
13 And we have the support of the customers -- and I should  
14 probably stop the conversation at that since we'll be filing  
15 before FERC shortly.

16 The investment was done by a combination of  
17 borrowing from the United States Treasury, as Bonneville  
18 does, as well as third-party financing for a major  
19 transmission line which will be completed this fall.

20 I think another important aspect that allowed us  
21 to succeed is we gave full consideration to nonwires  
22 alternatives, such as demand response and distributed  
23 generation, which is backed up by several pilot programs  
24 demonstrating the feasibility of those measures.

25 So here's my suggestion. And I think this builds

1 on something that Jerry just mentioned a couple of minutes  
2 ago, that a resource-adequacy plan isn't complete unless  
3 there's a delivery -- delivery adequacy component.

4 I think what we need to do is establish a link  
5 between resource and transmission adequacy. And I did not  
6 say "re-establish," because I don't think it was ever there  
7 before. While utilities may have done integrated resource  
8 planning with some consideration of transmission, I don't  
9 think it was ever institutionalized on a regional basis.  
10 And certainly functional separation over the last eight  
11 years has made it much more challenging to do integrated  
12 planning.

13 So I think the challenge is it goes more than just  
14 planning. I think we have to look at the transmission-request  
15 process, particularly as it's carried out under the  
16 Open Access Tariff. And those things are done  
17 independently, resource planning and -- and transmission  
18 planning are really done independently. We need to find a  
19 way to synchronize them.

20 So I'm not saying that we need a single integrated  
21 plan where there's one all-knowing entity that makes the  
22 decision, but we need to bring those two back together. So  
23 if I think of resource planning as a cycle that takes a  
24 couple years from the IRP development, the RFOs, and,  
25 finally, the selection. That may take a couple years. And

1       then it's -- after the purchases are made, I think we need  
2       to have a transmission request and planning process that  
3       moves in parallel with the resource-development process.

4               And that would then allow us to understand the  
5       full costs of developing the transmission to deliver  
6       resources that are identified in the resource plan.

7               So what we need to do is we need to build the  
8       institutions to do this not just at a state level but at a  
9       regional level and for the western interconnection, WECC-wide.

10              And why do I think this is really important? This  
11       is the only way we can get the information we need to do  
12       transmission planning. I think this is the only way we can  
13       ensure a least cost plan and ensures that the transmission  
14       will be available at the time that the resources are  
15       developed, so you don't have new resources that are stranded  
16       due to lack of transmission.

17              And, finally, by doing this integrated plan I  
18       think we can allow appropriate and timely consideration of  
19       demand response and distributed resources as part of  
20       developing the integrated plan.

21              I think the challenges in putting this together  
22       are really twofold. One is getting the institutional  
23       structure together on a larger-than-a-statewide basis and a  
24       region-wide and West-wide basis.

25              And the second is how do we integrate this with

1 the first-come, first-served request process that we worked  
2 through today, particularly in a region like the Northwest  
3 where those requests might have to go to two or three  
4 utilities to move a resource to the purchaser.

5 So I think there are some challenges, but I think  
6 this can be linked into some of the ideas that are being  
7 developed in the state of California.

8 Thank you.

9 MS. SIMLER: Thank you.

10 Jim.

11 MR. AVERY: Good afternoon. My name is Jim Avery.  
12 I am the Senior Vice President of Electric Operations for  
13 San Diego Gas & Electric. And I'd like to thank you for  
14 this opportunity to present some views.

15 I have to admit I agree with just about everything  
16 you've heard here today. And it's very refreshing.

17 Let me start by saying a couple of key facts.  
18 Transmission represents roughly five percent of the rates  
19 our customers pay. Yet if we look at the cost of congestion  
20 or if we look at the cost of these RMR type contracts that  
21 we pay to to support the deficiencies in the transmission  
22 infrastructure, that's another ten percent of our retail  
23 rates.

24 So there's a significant opportunity to make  
25 transmission investments in San Diego that would mitigate

1 those costs.

2 When I look at the FERC and I look at the CPUC and  
3 I ask myself, What are the things that we need to be able to  
4 make those investments, the list is relatively short and  
5 it's relatively easy to go through.

6 We need clear and concise policy, for any form of  
7 ambiguity on transmission policy either at the state level  
8 or at the federal level has a very chilling effect on the  
9 ability and just the interest in making investments in  
10 transmission.

11 Licensing. The determination of need in  
12 California right now is made by a multiple agencies. We  
13 need to be able to have a one-shop stop, a one-stop-shopping  
14 area where we can go in, have a determination of need made,  
15 and have all agencies both state and federal agencies accept  
16 and acknowledge that.

17 If I look at the licensing process right now, even  
18 under the best of circumstances it takes two years to  
19 license a transmission project. If I look at a more  
20 realistic process, one that might involve new rights-of-way,  
21 or may involve going through service territories beyond our  
22 geographic region, that process goes from two years, to  
23 three years, to four years, and perhaps even five years.

24 We need to be able to cut that back to 12. If we  
25 look at the infrastructure that exists today -- I mean you

1 heard in Arizona there are thousands of megawatts sitting  
2 idle. And here in California that we're all worried about  
3 keeping the lights on this summer. Yet if we had the  
4 ability to permit infrastructure more quickly, we could  
5 respond to these opportunities and save our customers tens  
6 to hundreds of millions of dollars.

7 The environmental siting route-selection process.  
8 Before a utility can file a CPCN for transmission, it must  
9 go through a process where we do an environmental scan  
10 first. We submit the CPCN and then, all over again, the  
11 State conducts an environmental process. We need to  
12 consolidate this and do it together. And we need to be able  
13 to pursue that environmental scanning in parallel with the  
14 determination of need.

15 Next, we believe there still needs to be a federal  
16 backstop. We can't just rely upon what we have in ability  
17 to just look at one state, because transmission quite often  
18 goes beyond the borders of a state or it goes beyond the  
19 jurisdiction of individual state agencies. So we need the  
20 ability to have the federal backstop.

21 If I look at San Diego, we have roughly 200 miles  
22 of border separating us from our neighboring counties. Out  
23 of those 200 miles of border, special interests -- and of  
24 those special interests are made up of State forest land,  
25 national forest land, made up of wilderness land, made up of

1 Indian reservations, encompasses 186 miles of those 200  
2 miles.

3 That basically leaves an opportunity if we need to  
4 construct transmission a 14-mile window to look at, unless  
5 we have the ability to have a federal backstop to look at  
6 federal lands. We need that.

7 Collaboration; it's paramount. We cannot do  
8 anything without collaboration, which we have here today  
9 with the FERC and the CPUC. But that collaboration has to  
10 go way beyond FERC. It has to go to the DOE, it has to go  
11 through the Department of Interior, it has to go to the  
12 State forests, everywhere. It can't just be within a small  
13 group. Because I'll tell you the number one thing that  
14 kills transmission is NIMBY issues. Nobody wants to have  
15 this is in their backyard.

16 And, to be very honest, if a project doesn't  
17 specifically benefit a geographic region, that region will  
18 do nothing to support you in building transmission. And  
19 that puts all of the burden back on you to basically  
20 override those decisions.

21 And everybody knows as soon as you do that  
22 politics play into the equation. So we have to find ways to  
23 get everyone to collaborate and look for the opportunities  
24 to pursue this.

25 I have sitting before you, and we have copies for

1 anyone in the audience who would like this, a summary of  
2 these comments. And plus I want to just talk very, very  
3 briefly about three major transmission projects we've  
4 pursued.

5 Five years ago we started the Valley Rainbow  
6 Project. I'm sure all of you have heard this term. It was  
7 a \$350 million, \$340 million transmission link that would  
8 link San Diego to Southern California Edison's 500-kV grid.  
9 Project, the ISO determined very quickly it was needed.

10 If the project were authorized to go into place in  
11 2004, as originally requested, it would save in its first  
12 two years of operation, in release of congestion and  
13 reduction in RMR costs alone, \$191 million dollars for a  
14 \$341 million project. And those numbers climb every --  
15 every year thereafter.

16 Another project. You heard Sean Gallagher talk a  
17 little bit about the Miguel Mission project. This is a  
18 project where we identified it in 2001. The Commission gave  
19 us authorization to construct in 2004. We had hoped we'd  
20 have it in service in 2004.

21 We did go back after we got authorization. And I  
22 will tell you the Commission under President Peevey's  
23 leadership was very quick to respond to some very innovative  
24 changes we made to the project. We -- and I can announce  
25 today -- actually as of yesterday -- we energized the 69-kV

1 line at 230 kV. That project will save us, if I look at  
2 releasing congestion and reduction in RMR-related costs and  
3 a reduction in premiums paid to these RMR generators, \$50  
4 million dollars in the first year. The cost to advance that  
5 project by over 12 months was \$3 million. So there are  
6 significant opportunities.

7 The last project I want to just highlight is we  
8 are pursuing right now the start of a new 500-kV link out of  
9 San Diego, once again. I will tell you if we do not have  
10 the ability to get collaboration among all state agencies  
11 and federal agencies, this project is doomed. But with this  
12 project we will be able to achieve a goal of 20 percent in  
13 renewables, because this project takes us right through the  
14 Imperial Valley area where we can tap into hundreds of  
15 megawatts and perhaps as much as a thousand megawatts we can  
16 bring into San Diego. Without the project we have no hope  
17 of achieving those goals.

18 Thank you.

19 MS. SIMLER: Thanks, Jim.

20 And our last panelist for the day is Nancy Day,  
21 Board of Directors of the Los Angeles Economic Development  
22 Corporation.

23 MS. DAY: It's really a great pleasure to have the  
24 opportunity to address you here today. And I am the  
25 beneficiary of being the clean-up batter, because everybody

1 who has preceded me has given you lots of information that's  
2 actionable. And I'm going to be a historian.

3 Coming up here, I pulled out a report that was  
4 prepared in April of 1992 under the leadership of Governor  
5 Pete Wilson. And he had pulled together an esteemed blue  
6 ribbon panel to look at what was -- look at what we could do  
7 to correct the malaise that was afflicting California in  
8 1992.

9 The report starts out by describing "A biting  
10 economic wind is blowing in California. It brings with it a  
11 feeling of personal threat, broken promises, and a sense of  
12 crisis. The economy is stagnating while the government  
13 appears immobilized."

14 Among the many problems this panel described as  
15 afflicting California, they noted "A permitting-and-regulatory  
16 quagmire that overwhelms small and medium-sized  
17 business managers and, in some cases, causes projects to  
18 take longer to get started than it took the United States to  
19 win World War II."

20 Mr. Geesman, in your opening remarks you  
21 identified institutional inertia as a problem. Mr. Avery  
22 and I did not rehearse our comments here today. In fact,  
23 it's my --

24 MR. AVERY: I looked over your shoulder.

25 (Laughter.)

1 MS. DAY: -- esteem pleasure to meet him.

2 But I want to say to you that the road to hell is  
3 paved with good intentions. And that if you keep doing the  
4 same things expecting different results, you are truly going  
5 to be disappointed.

6 You have so many opportunities to continue to  
7 demonstrate the stellar leadership you have brought to bear  
8 on these problems to date. But I want to suggest to you  
9 that I want you to behave in a more revolutionary fashion.

10 I want you to be as agitated as consumers will be  
11 when they look to point the finger at someone for their  
12 failure to plan and act. Don't let that someone be you.

13 We can't afford to let our load growth, our  
14 retirement continue to outstrip our production of energy and  
15 our ability to deliver it to those who are relying on us to  
16 do it.

17 And someone, I think on this panel, said just a  
18 few minutes ago, "Don't look to the market participants to  
19 solve the problem. Consult with them, invite their input,  
20 elicit their suggestions, but ultimately you are the  
21 decisionmakers."

22 Pat, I know you don't have much time, but before  
23 you get on that bus back to Texas, do me the personal favor  
24 of gathering up what needs to be done in one year's time and  
25 commit to a timetable with pinpointed accountability as to

1       who is going to do it.

2               Thank you.

3               CPUC CHAIRMAN WOOD: Was that rehearsed?

4               MS. DAY: Merry Christmas.

5               MS. SIMLER: Thanks a lot.

6               CPUC CHAIRMAN WOOD: Let's make it a happy 4th of  
7 July. Let's do it sooner than Christmas. Thank you.

8                               OPPORTUNITY FOR PUBLIC COMMENT

9               We have had the requests of two members of the  
10 public of the audience that would like to speak. And I  
11 think before we jump into questions with this panel, why  
12 don't we invite Lynn Brown. Lynn still here?

13                       (No audible response.)

14               FERC CHAIRMAN WOOD: If not, she may be outside  
15 and we'll ask again.

16                       And Robert Sarvey (phonetic)?

17                       (No audible response.)

18               FERC CHAIRMAN WOOD: He might have left. Well, if  
19 they're back we'll get them before we close out today.

20                       But, Commissioners, Yakout, questions for our  
21 panel members here, comments?

22                       Dian.

23               CPUC COMMISSIONER GRUENEICH: I won't be shy. It  
24 really is for Armie and Don Kondoleon. It seemed to me that  
25 one could envision considerable overlap, duplication, and

1 possible inconsistent results between what I heard of what  
2 the ISO is doing on its transmission planning of basically  
3 developing a transmission needs assessment, is the way I  
4 think of it with regard to the ISO area, and then the very  
5 -- the multiple, it sounds like, various reports and studies  
6 that the CEC is doing on transmission planning.

7 And I'm wondering if underneath this what's really  
8 happening is the two of you are buddies and were working  
9 together. But would it also be plausible to perhaps to do  
10 it jointly and maybe you all already are doing it and you  
11 just post it on each other's websites. Because, again, I'm  
12 sort of thinking about what the stakeholders this morning  
13 with the resource adequacy of it doesn't -- we want to  
14 present our resource-adequacy effort as something other than  
15 we spent a year here at the PUC doing and now Yakout's going  
16 to very ably -- and I think we'll be able to say how there  
17 is a credible next step in that process.

18 And so I wanted to raise the same sort of issue  
19 with regard to the transmission-planning efforts of your two  
20 organizations.

21 MR. PEREZ: Well, you're either a mindreader or  
22 you were behind us, because right after lunch the first  
23 thing I did is went to him and said, "You know what we're  
24 going to do, and what I want to do is within the next couple  
25 of weeks get together with you and see how we integrate

1 these two pieces together."

2 CPUC COMMISSIONER GRUENEICH: Again, as the new  
3 Commissioner I'll just say it sounded like there was a lot  
4 of --

5 MR. PEREZ: I think you're a mindreader.

6 CPUC COMMISSIONER GRUENEICH: -- duplication.

7 FERC COMMISSIONER BROWNELL: Chris, and maybe,  
8 David, you're involved in a lot of projects in other parts  
9 of the world. We tend to be a tad parochial here in  
10 thinking that we're the first to do anything.

11 What lessons can you share with us about your  
12 experiences in other places, particularly where they seem to  
13 actually be building transmission?

14 MR. PARQUET: I'm not specifically familiar with  
15 all the other things we're doing around the world. Although  
16 I will say that we are examining the acquisition of  
17 transmission systems and looking at the structure that is  
18 there on the ground today.

19 Also looking at, and having participated in this  
20 line I mentioned between Australia and Tasmania, I think  
21 that many of the issues we're dealing with here occur down  
22 in the Australian area. Maybe you can comment on that,  
23 Chris. But from what I can tell there are issues of -- one  
24 point that I left out, because I was already speaking long  
25 enough, there are two ways to get rate recovery on an

1 independent, newly-developed line. One is cost-based rates.  
2 The other one is market-based rates. And I think the same  
3 issues of who is going to pay for the -- for the ultimate  
4 project is a similar one.

5 For example, the -- just to pick on some -- a  
6 project we're not involved with, the Neptune Project in --  
7 that connects New Jersey with Long Island. That project is  
8 -- started out as market-based rates in the sense that I  
9 would consider it market-based rates. And that is  
10 independent parties, generators, so to speak.

11 Large power marketers were involved in that,  
12 willing to take a position in the price difference. In the  
13 end, the Long Island Power Authority basically purchased,  
14 similar to a power purchase agreement.

15 I've seen the same type of process happen with  
16 either market-based rates -- rates or power purchase  
17 agreements, let's say, down in the Australian area. I see  
18 people dealing with that issue. And that's a tough one  
19 across -- especially if you go across state borders.

20 MR. LESLIE: Okay. And as advertised, I do have  
21 to leave to get on a plane, but that's okay.

22 I think one point of distinction that bears noting  
23 is that many of the so-called successful market designs  
24 around the world, and I know President Peevey is familiar  
25 with the state of Victoria in Australia, is that they were

1       born out of government privatization, which is obviously not  
2       the case in the United States.

3               And so while we can say that Victoria works and  
4       the UK works, they had the luxury of being able to stand  
5       back, in some cases, take note of what happened in  
6       California, and design their markets appropriately.

7               I think the challenge --

8               FERC COMMISSIONER BROWNELL: And by that there is  
9       structural separation of both of those.

10              MR. LESLIE: Yeah, there's structural separation  
11      of transmission. Here I guess we have the challenge of  
12      shareholders of the incumbent utilities, together with a  
13      diverse range, obviously, of municipal and not-for-profit  
14      agencies as well. And so the problem is inherently more  
15      complicated here.

16              And whilst it's convenient to say why don't we  
17      just do what happened in the UK, I'm not sure that it  
18      necessarily is practical. And so the challenge here is in  
19      some sense is to have -- or one of the preconditions is to  
20      have the political will and the courage to move forward with  
21      these market-design reforms while at the same time  
22      respecting the fiduciary obligations of the utilities to  
23      their shareholders.

24              I think in many cases you may be moving -- or  
25      asking the utilities to do things that they have a fiduciary

1 responsibility not to do. And so in that sense you're --  
2 you're setting up a tension which never really existed in  
3 some of these foreign markets.

4 What I would say, though, is even turning  
5 attention to the United States, is that there has been --  
6 there are successful models. And it's true even in the  
7 foreign markets that nothing is perfect. And you're never  
8 going to get a perfect solution out of the box.

9 We heard earlier about being in perpetual  
10 transition, and I think every market is in perpetual  
11 transition. And we shouldn't be afraid of transition, and  
12 it's necessary to sort of jump in, take some lessons from  
13 the Northeast, take some lessons from PJM.

14 The car has been invented, has got -- has got an  
15 engine. Maybe you need a new steering wheel, but kind of --  
16 it's not the whole box and dice that needs to be reinvented.

17 So I think, you know, the lights are on around the  
18 world. Take comfort from the fact that -- that these  
19 systems are basically working and don't be shy about taking  
20 a few apparently courageous decisions, because they might  
21 not be as courageous as you might expect.

22 And then -- excuse me again -- at the risk of  
23 sounding like a heretic, I think from the investor's point  
24 of view, and maybe taking my economics background from --  
25 from a market point of view, the sort of the full profit

1 regional model that the FERC had originally promoted, which  
2 obviously encountered a lot of resistance, still sort of  
3 resonates in the eyes of investors as being a sensible  
4 solution. However, I think the political realities make  
5 that very difficult.

6 However, I think between that extreme and taking  
7 lessons from PJM and elsewhere, that there is a regional  
8 solution for the West that California can take a lot of  
9 leadership in. And there's a lot of guidance on how it  
10 might work sitting out there already.

11 And with that I'll have to I apologize and take my  
12 leave.

13 CPUC CHAIRMAN WOOD: Thanks, Chris.

14 CEC COMMISSIONER GEESMAN: I had a couple of  
15 questions for Sean Gallagher.

16 CPUC COMMISSIONER GRUENEICH: Oh, get back.

17 CEC COMMISSIONER GEESMAN: A few years ago the  
18 CPUC staff asserted jurisdiction in TransElect improvements  
19 to Path 15. Some of us did not consider that particularly  
20 helpful or well attuned to California's transmission needs.

21 What kind of jurisdictional approach would you  
22 envision taking the City of Pittsburg's project?

23 MR. GALLAGHER: It's a good question. It's one  
24 we're looking at right now.

25 CEC COMMISSIONER GEESMAN: Do you have anything

1 more to --

2 (Laughter.)

3 MR. GALLAGHER: No, I don't.

4 CEC COMMISSIONER GEESMAN: I encourage your  
5 careful review of it.

6 CPUC PRESIDENT PEEVEY: Well, perhaps, Mr.  
7 Parquet, I was going to ask the question, but Geesman beat  
8 me to it. But was that an oversight on your part that you  
9 didn't mention the PUC as a possible permitting agency here?

10 (Laughter.)

11 MR. PARQUET: No, Mr. Peevey, it was not an  
12 oversight. When we -- we originally conceived this project  
13 over a year and a half ago, at the time there were a number  
14 of very cosmic things going on, if you'll think back to that  
15 period. The Jefferson-Martin effort had -- had not been  
16 finalized. People were still struggling with that, a very  
17 difficult project, to say it creates a lot of noise.

18 Secondly, the Hunter's Point decision had not been  
19 made. The Potrero RMR decision hadn't been made. The  
20 peakers hadn't been applied for in San Francisco.

21 In the face of all of that noise and our own  
22 independent investigations, we looked at a way of just  
23 cutting to the chase and getting it done. It is clear that  
24 municipal entities are allowed to site transmission lines.  
25 It is clear they have sighting authority to do late-agency

1 status. It is clear that they have condemnation authority  
2 outside of their borders. They had all of the capabilities  
3 of doing it. We cut to the chase and we proposed it.

4 We have -- now if we were to be considered as a  
5 PUC sighting process that would imply or require a  
6 jurisdiction of someone, either us or the City of Pittsburg,  
7 neither one of which is true. So you have kind of a dilemma  
8 there.

9 So, first, the facts did not represent themselves  
10 as being responsive to a PUC oversight. And, secondly, we  
11 had a solution on the table for a very critically needed  
12 project and one that could cut right through all of the  
13 issues. So we did it.

14 CPUC PRESIDENT PEEVEY: When you come ashore in  
15 San Francisco who do you tie into?

16 MR. PARQUET: We tie into the Potrero Substation,  
17 interconnecting with the Pittsburg Substation.

18 CPUC PRESIDENT PEEVEY: Doesn't PG&E own that?

19 MR. PARQUET: PG&E owns that, that's correct. We  
20 are now in the final stages of completing an interconnection  
21 study for the interconnection of those two substations.

22 CPUC PRESIDENT PEEVEY: Is there any upgrade  
23 needed there, Mr. -- Steve? Any alteration of that  
24 substation necessary to accommodate this DC line? I would  
25 think there would be.

1           MR. METAGUE: Yes. Yes, we're following on the  
2 order 2003 Interconnection Proposal of Orders of the FERC.  
3 We are in discussions with Babcock Brown.

4           Yes, there will be some upgrades needed. The true  
5 scope of those are not yet completed -- the studies are not  
6 completed.

7           MR. PARQUET: One thing I'll mention, though, that  
8 is clear, though, is that at least as of today we had no  
9 intention of increasing the footprint of the substation. It  
10 appears there are sufficient interconnection points. And  
11 that would be one item that would require a PUC action.

12          CPUC PRESIDENT PEEVEY: It's tough to avoid us,  
13 isn't it?

14          MR. METAGUE: Pardon me?

15          CPUC PRESIDENT PEEVEY: It's tough to avoid us,  
16 isn't it?

17          (Laughter.)

18          FERC CHAIRMAN WOOD: Yes, it is.

19          (Laughter.)

20          CPUC COMMISSIONER GRUENEICH: Yes, sir, it is.

21          MR. METAGUE: Where Commissioner Pe- --

22          CEC COMMISSIONER GEESMAN: I've got a solution to  
23 that, Mike.

24          CPUC PRESIDENT PEEVEY: I'll be in the office next  
25 week if you --

1 (Laughter.)

2 MR. PARQUET: We're looking for your active  
3 support of the project, Commissioner Peevey.

4 CPUC CHAIRMAN WOOD: I think that we've heard from  
5 Steve. And I heard versions of it, I think, also from Jim.  
6 But I will task down what the FERC can do. And I just want  
7 to say we heard those and we've actually heard them recently  
8 as well in an other forum halfway across the country. So we  
9 will -- we're actually moving, trying to take some action on  
10 that in the near future.

11 Thank you.

12 MR. METAGUE: Thank you. I appreciate that.

13 CPUC CHAIRMAN WOOD: Thanks for bringing those up.  
14 There are two -- did Ms. Brown or --

15 MS. SIMLER: We haven't been able to locate them.

16 CPUC CHAIRMAN WOOD: Well, goodness gracious, look  
17 at that.

18 MS. SIMLER: Yeah.

19 FERC CHAIRMAN WOOD: We're going to finish on  
20 time.

21 (Laughter.)

22 CPUC CHAIRMAN WOOD: Jamie, anything? I've got  
23 some housekeeping, --

24 MS. SIMLER: Oh, you got two announcements, yeah.

25 FERC CHAIRMAN WOOD: -- two housekeeping items.

1           As mentioned before, anybody that's interested,  
2           we'll also make this available on our website, anybody  
3           that's interested in providing any feedback, thoughts, let's  
4           do it in a relatively short timeframe, why don't we say by  
5           the end of next week. That would be?

6           MS. SIMLER: The 10th.

7           FERC CHAIRMAN WOOD: The 10th of June. Any  
8           comments on -- for tracking purposes at our agency, and you  
9           can also file these electronically, of course, the docket  
10          is AD, alpha delta, 05-11.

11          And we are in California, leader of the world in  
12          recycling and let's include your badge. So please leave it  
13          at the front desk.

14          And that we thank you for coming and look forward  
15          to continuing to work together to get everything back on  
16          track. Have a good day.

17          (Whereupon, at 3:10 o'clock p.m. the Technical  
18          Conference was adjourned.)

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CERTIFICATE OF OFFICIAL REPORTER

This is to certify that the attached proceedings before  
the FEDERAL ENERGY REGULATORY COMMISSION in the Matter of:

Name of Proceeding: TECHNICAL CONFERENCE:  
ENERGY INFRASTRUCTURE and  
INVESTMENT in CALIFORNIA

Docket No.: DOCKET NUMBER AD05-11-000

Place: CPUC, SAN FRANCISCO, CALIFORNIA

Date: June 2, 2005

were held as herein appears, and that this is the original  
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of the proceedings.

Susan Palmer  
Official Reporter