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ENERGY COMISSION  
STATE OF CALIFORNIA  
BUSINESS MEETING

CEC HEADQUARTERS  
1516 9TH STREET  
HEARING ROOM A  
SACRAMENTO, CA  
FRIDAY, JANUARY 15, 2014  
10:00 A.M.

REPORTER: TIFFANY C. KRAFT, CSR  
LIC. #12277

APPEARANCES

COMMISSION MEMBERS:

Robert D. Weisenmiller, Chair

Karen Douglas

David Hochschild

Andrew McAllister

Janea Scott

CEC STAFF:

Robert Oglesby, Executive Director

Jared Babula, Staff Counsel

Shahid Chaudhry

Thanh Lopez

Cheng Moua

Marla Mueller

John Nuffer

Heather Raitt

Raoul Renaud

Linda Spiegel

Peter Strait



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ALSO PRESENT

Jeremy Smith, Building Resources and Trades  
Brian Theaker, Director of Regulatory Affairs, NRG Energy West  
David Weisman, Alliance for Nuclear Responsibilities  
Valerie Winn, PG&E

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  - b. Rick Tyler, et al v. Governor of California, Edmund G. Brown, Jr., et al. (Alameda County Superior Court, RG12619687).
  - c. Asphalt Roofing Manufacturers Association v. California Energy Commission (Sacramento County Superior Court, 34-2012-80001195).
  - d. California Independent System Operator Corporation (Federal Energy Regulatory Commission, Docket No. ER12-2634).
  - e. PEGC v. Brown, Alameda County Superior Court Case Nos: RG10494800 et al. (Furlough Litigation).
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17. Executive Director's Report.
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19. Public Comment: People may speak up to three minutes on any matter concerning the Energy Commission, with the exception of items appearing elsewhere on this agenda or items related to pending adjudicative (certification or enforcement) proceedings.

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SACRAMENTO, CALIFORNIA  
FRIDAY, JANUARY 15, 2014

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CHAIR WEISENMILLER: Good morning. Let's start the meeting with the Pledge of Allegiance.

(Thereupon the Pledge of Allegiance was Recited in unison.)

CHAIR WEISENMILLER: Welcome. From time to time, I may need to take a call. The Office of Emergency Services is running a drill today, and I may exercise in the drill involving an earthquake at Diablo Canyon. So if I get notifications, I have to listen to those. Excuse me. Somehow they always pick business meetings as the date for these drills.

With that, basically let's move onto Item 2. Blythe Solar Power Project Amendment, 09-AFC-06C. Raoul, please.

MR. RENAUD: Commissioners, just to give you a quick run-down of where we are and how we got here.

The original Blythe Solar Power Project was licensed in September 2010 during the ERA project area. It was to be a 1,000 megawatt solar thermal trough project on roughly 7,000 acres. At that time, the Commission approved the project, but made override findings with

1 respect to the areas of cultural resources, land use, and  
2 visual resources impacts, all three of which were  
3 cumulative -- deemed to be cumulative impacts. And then  
4 in the area of traffic and transportation, the Commission  
5 made an override finding with respect to the Airport  
6 County Land Use Compatibility Plan due to potential  
7 conflict with the aircraft from glint and glare from the  
8 mirrors of the solar troughs.

9 The petition to amend, which you're considering  
10 today, was filed by Nextera Blythe Solar Energy Center,  
11 LLC, on April 12th, 2013. And under that petition, the  
12 project would be converted to photovoltaic technology and  
13 reduced in size to roughly 4,000 acres and 485 megawatts.

14 Now, photovoltaic, of course, as you know, is not  
15 normally within the jurisdiction of the Energy Commission.

16 Would you like me to pause while you deal with  
17 the phone call? Shall I pause?

18 CHAIR WEISENMILLER: No.

19 MR. RENAUD: Photovoltaic is not normally within  
20 the jurisdiction of the Energy Commission, but a  
21 legislative exception was enacted, which is Section  
22 25500.1 of the Warren-Alquist Act, which allowed under  
23 some circumstances for the Commission to have jurisdiction  
24 if it was a conversion of an already licensed solar  
25 thermal project to photovoltaic technology. And the

1 Blythe solar amendment does fall within that legislative  
2 exception.

3           Now under 25500.1, there is no need to file a new  
4 application for certification. What is required is that  
5 the Commission prepare supplemental environmental review  
6 documentation and provide for public notice and hearing  
7 concerning the amendment.

8           So we began the proceeding with the staff working  
9 on the staff analysis and issuing Part A of that document  
10 on September 23rd of 2013 and then Part B on October 14th  
11 of 2013.

12           Shortly after that, we received notice from the  
13 Laborer's International Union of North America that they  
14 wished to intervene in the proceeding, filing their  
15 petition on October 23rd, 2013. And then the Colorado  
16 River Indian Tribe filed their petition to intervene on  
17 November 1, 2013.

18           Very shortly after that, we held the evidentiary  
19 hearing on November 19th, 2013, and issued the PMPD on  
20 December 13, 2013.

21           Subsequent to that, in the intervening period  
22 between then and today, we've received comments on the  
23 PMPD from the staff, the applicant, Colorado River Indian  
24 Tribes, which I'll refer to as CRIT from now on, Laborer's  
25 International Union, which I'll call LUINA and the Airport

1 Land Use Commission of Riverside County.

2           The approach of the Committee in this case was to  
3 consider the changes in the impacts that were caused by  
4 the amendment. And the general finding was that the  
5 impacts were either the same or reduced simply because the  
6 project is smaller and because photovoltaic technology is  
7 not involved the production of steam. It doesn't use heat  
8 transfer fluid. It doesn't have cooling towers and so on.

9           However, based on lessons learned in the  
10 construction of solar projects since 2010, the Committee  
11 did reconsider the override findings and made a  
12 determination to add a finding of override with respect to  
13 biological impacts. The traffic and transportation  
14 override was no longer necessary because there are no  
15 cooling towers and no mirrors and therefore no real issue  
16 with respect to aircraft safety.

17           The biological impact override was added due  
18 simply to the fact of the proliferation of solar projects  
19 and therefore the increased likelihood of avian collisions  
20 with a project. This is all kind of a matter of chance,  
21 but obviously the more acres you have covered with solar  
22 panels, the more likely it is the bird will hit one of  
23 them.

24           In addition, cumulative override is recommended  
25 with respect to cultural resources, with respect to land

1 use, and with respect to visual impacts.

2 So the Committee recommends that the Commission  
3 adopt the PMPD, the override findings, and the errata.  
4 And I'm available for questions. Also may want to hear  
5 from the parties.

6 CHAIR WEISENMILLER: Great. I'm going to turn to  
7 the applicant.

8 MR. GALATI: Scott Galati representing Nextera  
9 Energy Resources.

10 MR. BUSA: Scott Busa with Nextera Energy  
11 Resources as well.

12 MR. GALATI: We have reviewed the PMPD and made  
13 comments. We reviewed the other comments. We have  
14 reviewed the recent errata. We support it and we ask you  
15 for you to adopt today the PMPD with the errata and grant  
16 approval to this important project. Thanks.

17 STAFF COUNSEL BABULA: Jared Babula, Staff  
18 Counsel.

19 I just wanted to add one element to the Hearing  
20 Officer's statements. Staff also held a workshop on the  
21 staff assessment so there was another opportunity for  
22 public engagement.

23 Other than that, I don't have anything further to  
24 add. Thank you.

25 CHAIR WEISENMILLER: Thank you. Let's go through

1 interveners.

2 Is CURE on the line or in the room? Okay.

3 Let's go to the Labor Union. Laborer's

4 MR. LOZEAU: Good morning, Commissioners. This  
5 is Michael Lozeau. I'm on the phone obviously, for LIUNA.

6 We don't have any elaborate comments for this  
7 morning. We did submit a comment on the proposed decision  
8 that does raise a constitutional issue about the review  
9 provision in the Public Resources Code 25531(a). And we  
10 submitted extensive comments on biology and air concerns  
11 previously. And we continue to stand by those comments  
12 and would prefer that the Commission not make a decision  
13 today and further evaluate those concerns and add the  
14 mitigation measures -- some of the additional mitigations  
15 that we have proposed.

16 But with that, that's the only comments I have  
17 this morning.

18 CHAIR WEISENMILLER: Let's go to CRIT.

19 MS. CLARK: Good morning, Commissioners. My name  
20 is Sara Clark. I'm an attorney with Shute, Mihaly &  
21 Weinberger. I represent the Colorado River Indian Tribes  
22 on this issue.

23 CRIT is a federally recognized tribe on the  
24 Colorado River Indian Reservation, which is home to many  
25 of CRIT's members. Is located in very close proximity to

1 the proposed project. The area in particular that's  
2 proposed is part of the ancestral homeland of both the  
3 Mohave and Chemehuevi members of the Colorado River Indian  
4 Tribe.

5 As a preliminary matter, CRIT joints in the  
6 comments made by LIUNA on the PMPD. We believe the  
7 judicial review provisions not only improperly inflate  
8 Commission decisions from scrutiny, but are also  
9 unconstitutional for the reasons raised by LIUNA. And for  
10 that reason, we also concur with their request to further  
11 delay the decision to address this issue.

12 But CRIT is primarily concerned that the  
13 Commission has failed to analyze and consider the  
14 project's impacts of cultural resources. The project is  
15 slated for construction in one of the most important trail  
16 corridors in the region. And there's been little analysis  
17 about how fencing off this area will impact continued use  
18 of this trail.

19 There's also been no (inaudible) study completed  
20 for this project and consultation with area tribes have  
21 been minimal.

22 The CEC staff and the Committee have taken the  
23 position this analysis cannot be completed at this time  
24 because the Commission has already decided on the original  
25 project. But we nevertheless urge the Commission to

1 exercise its considerable discretion to thoroughly  
2 understand project impacts prior to making a decision on  
3 this amendment.

4 CRIT is also concerned about the project's  
5 considerable potential impact to disturbed cultural  
6 artifacts. Time and time again, CRIT has watched as  
7 renewable energy developers have uncovered artifacts in  
8 unanticipated areas. From our perspective, the handling  
9 of these discoveries has been painful and problematic.

10 While we appreciate the modifications and the  
11 conditions of certification, CRIT remains concerned these  
12 conditions do not go far enough to mitigate these impacts  
13 and do not comport with California law.

14 For these reasons as well as those that are in  
15 our briefing, testimony, and comment letters, CRIT urges  
16 the Commission to reject the PMPD and deny the proposed  
17 amendment. Thank you.

18 CHAIR WEISENMILLER: Thank you.

19 Staff, do you have any response to any of the  
20 intervener comments?

21 STAFF COUNSEL BABULA: In regards to the  
22 constitutional issue, this wouldn't be the appropriate  
23 venue. There is no issue that the Commission has the  
24 authority to review an amendment and approve or disapprove  
25 an amendment. That's kind of what we're here for.

1           As for some of the more substantive comments, I  
2 think there's been a lot of effort to work with CRIT. The  
3 project shrunk its size and moved away from areas to  
4 reduce impacts on a number of cultural resource sites.  
5 And that's clear in the record, the number of sites that  
6 have been avoided. So that effort was made.

7           Also, the PMPD made changes to the some of the  
8 conditions to address both the biological issues raised by  
9 LIUNA and some of the cultural issues raised by CRIT. So  
10 I think that at least from staff's view, this process has  
11 been thoroughly reviewed. And the outcome is a good  
12 project that reduces a lot of the impacts.

13           CHAIR WEISENMILLER: Thank you.

14           Applicant?

15           MR. GALATI: I guess our response, we would echo  
16 what Mr. Babula just said. We would also just like to  
17 make sure the Committee knows that -- and the Commission  
18 knows that we worked very hard and we accommodated a lot  
19 of changes to the conditions of certification that are  
20 unrelated to the amendment, specifically because of  
21 lessons learned. The entire compliance section was  
22 re-written, which we have accepted those. We revamped and  
23 revised what we've learned in the biology area with  
24 respect to avian species. We have added at the direction  
25 of the Committee, and we've added very specific changes to

1 the cultural conditions to do our best to accommodate  
2 CRIT.

3           And we'll continue -- we'd like to make sure  
4 everybody understand that one of the things we agree to is  
5 that the Indian tribes would have a role in reviewing and  
6 commenting on the CRMMP, which is the mitigation plan, and  
7 their procedure and their process and they've been invited  
8 into the process a lot more than other projects have been.  
9 And that was with agreement of the applicant.

10           So we may not be able to solve all of those  
11 problems, but I think we've done everything we can. This  
12 project is -- the impacts in every area are reduced.

13           MR. BUSA: If I could add to that just to recall  
14 the original project from Solar Trust of America had  
15 started construction. The access road was cut in.  
16 Hundreds of acres were previously disturbed on this area.  
17 NextEra stepped up to hopefully revive this ARRA project.  
18 We've recently just brought on line the first unit of  
19 Genesis, which is right down the road. And our track  
20 record there hopefully will be able to bring life from  
21 what was a bankrupt project into a successful project.  
22 And just wanted to thank the Committee, in particular,  
23 Staff Counsel Jared Babula and our Compliance Manager Mary  
24 Dyas for getting us this far.

25           CHAIR WEISENMILLER: Let's start with

1 Commissioners -- transition now to Commissioners. Since  
2 we've heard from all the intervenors -- I believe that  
3 have comment. Let's start with Commission Committee.

4 Commissioner Douglas.

5 COMMISSIONER DOUGLAS: Thank you, Chair  
6 Weisenmiller.

7 I just wanted to make a couple comments as the  
8 presiding members of the Committee that oversaw this  
9 amendment.

10 First of all, I want to thank applicant and staff  
11 and really all the parties for working diligently through  
12 this process. As was noted, I think very effectively by  
13 Mr. Babula and staff just now, this is a project that  
14 reduced the impacts from the proposed project. This is an  
15 amendment. Nevertheless, the PMPD that's before us today  
16 increases the stringency of conditions in a number of  
17 areas.

18 The petitioner/applicant was very cooperative in  
19 working with staff and working with us too, as we've  
20 noted, accommodate some of the lessons learned from  
21 construction in the first round of projects and ensure  
22 that we have a strong proposal in front of us, including  
23 the conditions that are needed and the findings that we  
24 made in the PMPD.

25 I specifically asked applicant to work with CRIT

1 and try to incorporate and address some of the concerns  
2 they've raised about cultural issues during construction.  
3 I think applicant did a good job of working with CRIT,  
4 working with staff, and proposing a way of going forward  
5 that I think is going to be effective. And we're all  
6 going to have to work together to get the most advantage  
7 out of it. But I think it's a very good approach that we  
8 have in the PMPD.

9           We had a thorough process. We have addressed all  
10 the comments and the evidence that was raised to certainly  
11 my satisfaction. And I don't -- I don't support the  
12 request by LIUMA that we spend more time rehashing these  
13 issues. I think we've been through these issues in a  
14 thorough way.

15           I also agree with Staff Counsel that there is no  
16 purpose served in delaying a decision on this case so that  
17 in our forum the constitutional issues raised by LIUNA  
18 could be argued or addressed. We do not have the ability.  
19 We are not the forum to resolve those constitutional  
20 issues. So there's really no purpose served by our going  
21 into it. And certainly not by our delaying a decision on  
22 the environmental review of this proposal in order to do  
23 so.

24           So with that, I'm prepared to move approval of  
25 this item, but there may be other questions. And

1 Commissioner Hochschild, as the associate member of the  
2 Committee, may in fact have a comment.

3 COMMISSIONER HOCHSCHILD: Let me just thank  
4 Presiding Member Commissioner Douglas who did a terrific  
5 job ushering us through the process and all the  
6 interveners for a very thorough engagement with the  
7 process.

8 From my perspective, this project actually  
9 represents an improvement and impacts in virtually every  
10 fashion. The footprint of the project is smaller. The  
11 water use has been essentially limited. The visual impact  
12 is less. And I think compared to the original project,  
13 you know, it's very clear this is a lower impact. And  
14 again, this is an amendment rather than a new project to  
15 be brought to us.

16 With that in mind, I'm happy to support the  
17 project.

18 CHAIR WEISENMILLER: I want to say a few words on  
19 the project.

20 First would note that I was on the original  
21 Blythe Committee. And at that point, when we approved it,  
22 at least two of the factors that were very much in my mind  
23 and certainly as we look at this current proposed decision  
24 very much of my mind is, one, this project will result in  
25 jobs, you know. And we're talking about an area that has

1 high unemployment. And these jobs give people a chance to  
2 really -- again, in terms of people's lives without -- if  
3 you're looking for work and you can't find it, that's a  
4 real hardship and tragedy. Now, having people get the  
5 jobs they need and so they can take care of their families  
6 and in that economic area is very important.

7 And second of all, this will reduce greenhouse  
8 gas emissions. And certainly, the fundamental challenge  
9 of our time is climate change. And climate change, things  
10 that we do to reduce fossil fuel use, which the solar  
11 plant will do is critical. And obviously, this is an area  
12 that will be adversely effected by climate change so that  
13 we see this project as part of the mitigation frankly for  
14 dealing with climate change issues. And at the same time,  
15 we'll deal with our other big challenge of the economy and  
16 jobs. So I think it's really important to move forward on  
17 this.

18 Now, having said that, I would note in a way it's  
19 in some respects poetic in that when I was here the first  
20 time at the Energy Commission, my first round of public  
21 service in the '77 to '82 period, we considered another  
22 project at Blythe, which was the Sun Desert Nuclear Plant.  
23 And we turned it down ultimately after the NOI phase and  
24 the Legislature gave us direction to go through a series  
25 of potential alternatives, and we voted it down shortly

1 thereafter when TMI, Three Mile Island, happened.  
2 Remember people from PG&E said thank God we would have  
3 gone into bankruptcy if we had done this construction  
4 program when you had suddenly the whole nuclear apparatus  
5 was changed.

6           Having said that, part of the issue in this case  
7 certainly raised by the intervenors come back to the  
8 original vision of Warren-Alquist Act. When it was  
9 passed, it was an unusual combination which is certainly  
10 reflected in the DNA of this organization. Alquist really  
11 wanted an expedited one-stop siting agency. And he was  
12 very concerned about reliability in the state. He  
13 represented Silicon Valley, even in those early days and  
14 also a very strong proponent of energy efficiency. But he  
15 really wanted to make sure -- and that's why we have such  
16 a detailed time line in the Act saying that, in fact, you  
17 know, these decisions ought to come out within a year.  
18 And also I'm sure he was one of this thing has to go  
19 straight to the Supreme Court. It has to be able to move  
20 forward in an expedited fashion.

21           Now, the other part of the Warren-Alquist Act was  
22 actually Charlie Warren. And Charlie Warren obviously did  
23 all the landmark California environmental laws in the  
24 '70s. His remarkable legacy. What he was really looking  
25 for was a very public process and also that we really take

1 a very strong look at environmental mitigation.

2           So again, I think you can see all -- in the  
3 Warren-Alquist Act all that detail and public process.  
4 And it was certainly in contrast to the last CPCN that the  
5 PUC granted which was at Healms never had a public  
6 hearing. None. So this is where we have a very explicit  
7 public process here.

8           So the notion was to combine those three  
9 attributes: Expedited siting with public participation  
10 and with a strong environmental mitigation consciousness.

11           And part of that then leads to the question of as  
12 you look at the various appeals -- again, I think the  
13 notion was to say, if anything, we are to do CEQA on  
14 steroids, the type of process we're doing. Certainly much  
15 more rigorous than a conventional facility, even if it was  
16 a refinery would undergo. And the notion is then moving  
17 forward to go to the Supreme Court so that particularly in  
18 this era of project financing, in the current era to make  
19 sure that things can move forward in a timely fashion.

20           And again, if you have all kinds of judicial  
21 appeal, at some point, this project is going to slip out  
22 of the window of being able to take advantage of the tax  
23 credits. So I think it's really important. Obviously,  
24 time is money. And the applicant has put a lot of time  
25 into a very good faith effort to really work with its

1 neighbors and to protect the environment. So I certainly  
2 would agree on the Resolution.

3 COMMISSIONER DOUGLAS: So with that, I will move  
4 approval of item -- Item 2.

5 COMMISSIONER HOCHSCHILD: Second.

6 STAFF COUNSEL BABULA: Just let me intervene for  
7 one moment to assist in making sure we draft the  
8 Resolution correctly.

9 And I do have a very minor housekeeping matter on  
10 the errata. We published the errata yesterday. Part of  
11 that errata says that -- under the soil and water section  
12 we're adding appendices to Part D per staff's comments,  
13 which were filed and are transaction number 201548.

14 What we failed to clarify was that Part D has  
15 Parts 1, 2, and 3. And so we added a new Item 22 just to  
16 make sure double clear everybody understands that.

17 So that is errata Revision 1. And it is on file.  
18 And so I would recommend that your motion be to adopt the  
19 PMPD, the errata revised Revision 1, and the override  
20 findings.

21 COMMISSIONER DOUGLAS: So I move to adopt the  
22 PMPD, the errata as revised in Revision 1, and the  
23 override findings.

24 COMMISSIONER HOCHSCHILD: Second.

25 CHAIR WEISENMILLER: Okay. All in favor of this

1 Resolution.

2 (Ayes)

3 CHAIR WEISENMILLER: This Resolution passes five  
4 to zero. Thank you.

5 Let's go to Item 4, which is the 2013 Integrated  
6 Energy Policy Report. And Heather Raitt, please.

7 (Thereupon an overhead presentation was  
8 presented as follows.)

9 MS. RAITT: Good morning.

10 Today, staff is asking for your approval of the  
11 2013 Integrated Energy Policy Report. The Public  
12 Resources Code requires Energy Commission to prepare an  
13 IEPR every two years and assessed energy supply and  
14 demand, production, delivery and distribution market  
15 trends and major challenges. These assessments are used  
16 to develop energy policy recommendations.

17 --o0o--

18 MS. RAITT: The IEPR lead Commissioner issued a  
19 scoping order on March 7, 2013, identifying the topics  
20 that would be covered in the report. Between October 2012  
21 and October 2013, the Energy Commission held 29 public  
22 workshops on topics identified in the scoping order.  
23 Throughout the process there was extensive stakeholder  
24 participation both in the workshops and through written  
25 comments. This input was instrumental in developing the



1 response, bio-electricity, transmission, nuclear energy,  
2 natural gas, transportation, and climate change. I'll go  
3 over the highlights from each of these chapters.

4 --o0o--

5 MS. RAITT: The IEPR first addresses energy  
6 efficiency, which is first in the order. The Energy  
7 Commission is working with the CPUC and other stakeholders  
8 to develop a comprehensive program to advance energy  
9 efficiency in existing plans. The plan is expected to be  
10 finalized in 2014.

11 Other opportunities for energy efficiency  
12 advancements including achieving the goals for State  
13 buildings and Governor Brown's Executive Order and  
14 increasing energy efficiency in schools by the use of  
15 Prop. 39 funds.

16 Recommendations include working to improve energy  
17 efficiency in property appraisal processes, improving  
18 compliance with efficiency standards, and considering ways  
19 that standards can address demand-response and grid  
20 resource opportunities.

21 --o0o--

22 MS. RAITT: California also has a policy goal of  
23 achieving zero net energy building standards by 2020 for  
24 residential low-rise buildings and by 2030 for commercial  
25 buildings. Towards this goal, the Energy Commission



1 including recommendations in the 2013 IEPR.

2           The Energy Commission encourages the industry to  
3 take various actions, including producing the model  
4 ordinance and promoting the use of California's specific  
5 geothermal heat pump standards for training and  
6 certification.

7                               --o0o--

8           MS. RAITT: Demand response is a top priority of  
9 the 2013 IEPR. Demand response can play an important role  
10 in maintaining a reliable electric system by influencing  
11 demand according to system needs and constraints and the  
12 need for new power plants and transmission lines.

13           Despite its potential benefit and position along  
14 side energy efficiency, demand response is under-used  
15 resource in California.

16           The retirement of San Onofre nuclear generating  
17 station, approaching once through cooling requirements,  
18 increasing need for flexibility to integrate renewable  
19 resources, as well as the local term challenge of climate  
20 change required demand response play a much larger role in  
21 electricity supply and reliability.

22           Because slippage and demand response market  
23 development will necessitate more generation and  
24 transmission than would otherwise be required, a need to  
25 advance demand response is urgent.

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MS. RAITT: The Energy Commission has identified five strategies to advance demand response:

Establishing rules for direct participation in California ISO markets.

Developing a pilot testing additional market products.

Resolving regulatory barriers.

Continuing the collaborative process among the Energy Commission, CPUC, California ISO, and Governor's office including efforts to fast response demand response and advancing customer acceptance.

--o0o--

MS. RAITT: Following energy efficiency demand response in the loading order is renewable energy. California is on track to meet 33 percent of its electricity needs by 2020. Bio-energy can help achieve environmental protection, waste reduction, and greenhouse gas reduction goals, primary disposal and treatment options of low value biomass.

AB 1900 by Assemblymember Gatto directs the Energy Commission to evaluate barriers and solutions to advance procurement of bio methane of fuel that can be used for electricity or transportation.

The analysis found the challenges include

1 regulatory uncertainty, the expense of upgrading biogas to  
2 pipeline quality, lengthy and costly pipeline  
3 inter-connection processes, pipeline safety concerns, and  
4 the need for technology commercialization. Research and  
5 development efforts can help address several of these  
6 issues.

7 --o0o--

8 MS. RAITT: Recommendations for biomass  
9 management include exploring all mechanisms to fund  
10 biomass collection and distribution and developing biogas  
11 use goals and sustainable practices. Biopower  
12 recommendations include developing a programmatic EIR and  
13 modifying procurement practices at the CPUC. Further  
14 research and development are needed to advance biofuels  
15 and biomethane.

16 --o0o--

17 MS. RAITT: The discussion on electricity begins  
18 with the demand forecast. The energy demand 2014 to 2024  
19 final forecast presents three demand scenario, high, mid,  
20 and low, different assumptions about economic and  
21 population growth electricity prices and other factors.  
22 Also includes five scenarios for additional achievable  
23 energy efficiency.

24 The analysis shows the annual average electricity  
25 demand growth for 2012 to 2024 is expected to range from

1 .88 to 1.82 percent. Peak demand growth is expected to  
2 range from .97 to 1.92 percent.

3 Combining the mid-demand case with the demand and  
4 additional achievable energy efficiency, the annual growth  
5 for 2012 to 2024 is expected to be nearly flat for the  
6 investor-owned utilities, even with the expected economic  
7 population growth.

8 The Energy Commission requested stakeholder input  
9 on which demand and additional achievable energy  
10 efficiency scenario to use as a single forecast for  
11 planning purposes. After careful consideration, the  
12 public comments, leadership at the Energy Commission, in  
13 consultation with the CPUC and the California ISO,  
14 recommend using the mid-base case forecast in combination  
15 with the mid additional achievable energy efficiency  
16 scenario for system wide planning for the 2014/2015,  
17 procurement and transition planning cycles.

18 Since reliability needs are localized and the  
19 State's ability to forecast load and energy efficiency at  
20 specific locations is still evolving, it's prudent at this  
21 time to use a combination of the mid-based case forecast  
22 and the low-mid additional achievable scenario for local  
23 studies in these planning processes.

24 This agreement on a single demand forecast is one  
25 of the commitments that joint agencies lead to Legislature

1 to better coordinate energy planning.

2 --o0o--

3 MS. RAITT: In addition to forecasting future  
4 California electricity demand, it's important to make sure  
5 the infrastructure needed to generate and deliver that  
6 electricity is in place. Southern California is uniquely  
7 vulnerable, not only because of the potential retirement  
8 of power plant that use once-through cooling, but because  
9 of the permanent closure of San Onofre which provided more  
10 than 2,000 megawatts of generating capacity and support  
11 for the region.

12 The Energy Commission, CPUC, and California ISO  
13 staff jointly developed a preliminary reliability plan for  
14 the base in San Diego to ensure reliability in southern  
15 California. The agencies are committed to balance  
16 portfolio energy efficiency, demand response, distributed  
17 generation and storage to meet the resource needs.

18 The plan will include off ramps and contingencies  
19 if preferred resources do not materialize on schedule on  
20 or the remounts required for reliability or in the event  
21 transmission projects are found infeasible or unavailable.

22 The finalized plan will culminate into an action  
23 plan to be implemented by the agencies and closely  
24 monitored by the Governor's office.

25 --o0o--

1 MS. RAITT: Estimates of future generation cost  
2 trends are important when evaluating the kinds of  
3 resources that will meet California's future energy needs.  
4 Rapid declining cost is expected to continue for solar,  
5 photovoltaic technologies and cost reductions are expected  
6 for solar thermal technologies. Fossil fuel technology  
7 costs are expected to remain flat, but there will be  
8 increase of roughly 15 percent over the coming decade as a  
9 result of mitigating or offsetting criteria air pollutants  
10 and greenhouse gas emissions.

11 To support the 33 percent by 2020 RPS, California  
12 needs to ensure that transmission projects that deliver  
13 renewable energy are permitted quickly and effectively.  
14 Seventeen transmission projects have been identified and  
15 approved for the integration of renewable resources. As  
16 Governor Brown noted in the Clean Energy Jobs Plan, the  
17 energy agencies should continue to work together with a  
18 sense of urgency to permit these new transmission lines  
19 without delay.

20 Recommendations related to transmission include  
21 encouraging participation in the California ISO's energy  
22 and balance market, continuing joint agency efforts to  
23 recommend long-term potential transmission solutions that  
24 address reliability concerns associated with the recent  
25 shutdown of San Onofre and ways to reduce transmission

1 permitting time lines and identifying appropriate  
2 transmission corridors.

3 --o0o--

4 MS. RAITT: Moving on to nuclear power,  
5 California's two nuclear power plants, the Diablo Canyon  
6 Power Plant and San Onofre are located near larger faults  
7 causing increased concern about potential safety issues,  
8 particularly given the Fukushima Daiichi nuclear disaster  
9 in 2011.

10 The 2011 IEPR made recommendations on issues such  
11 as spent fuel storage, seismic issues, replacement power  
12 and reliability, emergency response plans, and  
13 relicensing.

14 The 2013 IEPR provides updates on utility  
15 progress implementing the recommendations. The permanent  
16 closure of San Onofre negated many of the recommendations  
17 for SCE, but continued storage of fuel on site will  
18 require ongoing attention.

19 The 2013 IEPR discusses events that led to the  
20 closure of San Onofre, recent federal events on nuclear  
21 waste, and pending legislative proposals.

22 Policy recommendations address comprehensive  
23 design basis, seismic analysis, timely compliance with  
24 fire protection regulations, accelerated transfer of spent  
25 fuel storage, and scenario for the federal efforts to

1 develop and integrated to management and disposal of  
2 nuclear waste.

3 --o0o--

4 MS. RAITT: Natural gas continues to play an  
5 important role in California's energy portfolio. The 2013  
6 IEPR discusses hydraulic fracturing, or fracking, pipeline  
7 safety, integration of renewable energy, increase interest  
8 in exporting liquefied natural gas, and combined heat and  
9 power.

10 Recommendations include continuing to monitor and  
11 better integrate pipeline delivery and natural gas with  
12 electric system and reliability needs, monitoring the  
13 national interest in liquefied natural gas, staying  
14 abreast of the changing dynamics of natural gas.

15 --o0o--

16 MS. RAITT: Another important part of  
17 California's energy outlook is transportation. It  
18 accounts for nearly 40 percent of California's total  
19 energy consumption and roughly 39 percent of its  
20 greenhouse gas emissions.

21 In September 2013, the California Legislature  
22 reauthorized the Alternative and Renewable Fuel Vehicle  
23 Technology Program by Assembly Bill 8 by Assembly Member  
24 Perea. The bill extends program funding through January  
25 1, 2024. The program was originally established by

1 Assembly Bill 118 in 2007. As of June 2013, the Energy  
2 Commission funded 233 projects through the program  
3 totaling more than \$400 million for electric drive  
4 categories such as hydrogen, natural gas, propane,  
5 biofuels, manufacturing and workforce training and  
6 development. This investment supports the State's energy,  
7 clean air, and climate goals.

8 Program investments have helped California  
9 develop the largest network of electric vehicles, electric  
10 vehicles, charging systems, and the largest number of  
11 hydrogen fueling stations in the country.

12 The Energy Commission contracted with NREL to  
13 evaluate the expected benefits of projects funded by the  
14 project. The final draft IEPR includes a discussion of  
15 the benefits, such as petroleum reduction, greenhouse gas  
16 reductions, job creation, and workforce training.  
17 Benefits will also be summarized in the stand alone energy  
18 contractor report.

19 --o0o--

20 MS. RAITT: The Energy Commission also required a  
21 report on transportation fuel, supply, demand and trends  
22 in each biennial IEPR. The analysis found that existing  
23 incentive and regulations combined with alternative fuel  
24 price advantages, expected economy of scale for vehicle  
25 manufacturing, and technology advances could lead to at



1 political action on climate change.

2 As part of the 2012 IEPR update and 2013 IEPR  
3 proceedings, Energy Commission staff held public workshops  
4 to discuss the latest findings relevant to the energy  
5 sector, potential impacts on California energy supply, and  
6 responses to better prepare for climate change.

7 --o0o--

8 MS. RAITT: Achieving California's 2015  
9 greenhouse gas emission reduction goals require  
10 substantial transformation of California's energy system.  
11 These challenges are part of the ARB's AB 32 scoping plan  
12 update with an emphasis of potential targets for 2030 and  
13 2050.

14 Climate recommendations include to sponsor  
15 research to reduce climate risk and greenhouse gas  
16 emissions and continue to coordinate climate change  
17 research by California agencies, support actions to both  
18 reduce greenhouse gas emissions and increase preparedness,  
19 assess the vulnerability of transportation fuel  
20 infrastructure to climate change, and support the  
21 development of greenhouse gas reduction targets for 2030  
22 and metrics to track progress.

23 That concludes my presentation. I'll be happy to  
24 take any questions before public comments.

25 CHAIR WEISENMILLER: Great. Thank you. Let's

1 move on to public comment. Let's start with Environmental  
2 Defense Fund.

3 MR. FINE: Commissioners, thank you. Jaime Fine  
4 with Environmental Defense Fund. Thank you for an  
5 opportunity to offer some brief comments.

6 First, I just wanted to note that EDF does very  
7 much support the intent, tone, and scope of the IEPR. We  
8 are here today to highlight one significant exception we  
9 see on with our support. And that is with respect to the  
10 codification of the preliminary reliability plan, the  
11 so-called 50/50 reliability split. We think that's a  
12 premature decision and shouldn't be codified in the IEPR.  
13 And we recommend that language be stricken from the IEPR.  
14 And in doing so, we would support approval of the IEPR  
15 today.

16 EDF's comments that we submitted in written form  
17 did highlight that we think more emphasize could be put on  
18 demand response resources. That was clearly summarized in  
19 the comments in the presentation today. We'd like to see  
20 a Commission commitment to doubling down effort on looking  
21 particularly at the demand side DR in the next IEPR,  
22 recognizing that would be hard to do for this year's IEPR.

23 And we also note and highlight the recent staff  
24 decision from the recommendation from the CPUC of last  
25 week that recommends a move to much more of a use of time

1 of use rates for residential customers starting in 2018.  
2 We think the IEPR needs to plan for that and represent  
3 that in its demand forecast.

4           And I'll just note that our primary concern  
5 around the 50/50 codification language in the IEPR is that  
6 EDF's understanding of the loading order suggests we  
7 should be pushing as hard we can on preferred resources,  
8 to ensure the lights stay on.

9           From our perspective, this means that we -- the  
10 onus is really on teeing up preferred resources to the  
11 extent they are available, while staying open to  
12 continuing to pursue least cost, best fit, cleanest  
13 pathways going forward. This means perhaps beginning to  
14 plan for some procurement of conventional resources, but  
15 staying open to not needing to procure those if preferred  
16 resources can reveal themselves as providing the  
17 reliability and magnitude that certainly the loading order  
18 calls for and our pressing concerns around climate change  
19 and other state goals also would call for.

20           So those are my comments. Thank you very much  
21 for hearing them today.

22           CHAIR WEISENMILLER: Thank you for being here.

23           Let's go on to Jeremy Smith, Building Resources  
24 and Trades.

25           MR. SMITH: Thank you, Mr. Chair and members of

1 the Commission and staff.

2 I'm here to support the recommendation in the  
3 IEPR for the 50/50 balance between preferred resources and  
4 gas-fired power plant and conventional resources.

5 I represent the State Building and Construction  
6 Trades council. We're a council of unions in California  
7 that collectively represent nearly 400,000 construction  
8 workers. We do all of the work. We are trained to do  
9 both the work on preferred resources and gas-fired power  
10 plant work. So in terms of jobs and putting our members  
11 to work, we can do it all. However, the level of  
12 employment that comes from a gas-fired power plant, both  
13 during construction and after for the maintenance and  
14 upkeep of the fire plant is a degree of magnitude larger  
15 than the preferred resources.

16 Now, that doesn't mean we don't understand the  
17 need to combat climate change and to figure out moving  
18 forward into the future how to bring more preferred  
19 resources on line. We are just pleased that the IEPR does  
20 recommend a 50/50 split and want to ensure that that stays  
21 in the final report when it's approved.

22 And I just wanted to reiterate that there is a  
23 good side effect to 50/50 and that's jobs. The  
24 construction industry is always the last industry to  
25 bounce back whenever there is a depression, or in this

1 case a recession. And we are still experiencing  
2 unemployment levels we haven't seen since the great  
3 depression.

4 That being said, we do support preferred  
5 resources. Want to figure out a way to be partners moving  
6 forward to combat climate change. But they're happy there  
7 is a 50/50 split in the reports because we believe it'd be  
8 an uninterrupted power source in the state, and gas  
9 powered fire plants are the way to go, we think.

10 With that, I'll be here for questions. Thank you  
11 for your time.

12 CHAIR WEISENMILLER: Thank you.

13 Let's go to Sierra Martinez, NRDC.

14 MR. MARTINEZ: Hello. My name is Sierra  
15 Martinez, Legal Director for the California Energy Project  
16 at NRDC.

17 Thank you to the staff and the Commission for all  
18 the hard work that went into the IEPR. And thank you for  
19 hearing our comments, which will come in four sections:  
20 One on the demand forecast; one on procurement issues;  
21 third on zero net energy; and last on utility efficiency  
22 programs.

23 With respect to the California energy demand, we  
24 commend the Energy Commission and the joint agencies for  
25 working together to come to an agreement on a single

1 statewide managed forecast that use a reasonable low  
2 conservative mid-estimate of energy efficiency. This is a  
3 significant accomplishment. We would urge the Commission  
4 also publish the results in graphical format of this  
5 managed forecast next to the unmanaged forecast. We thank  
6 the Commission for including tables of the managed  
7 forecasts in the final IEPR.

8           In subsequent IEPRs, we recommend the Energy  
9 Commission include All energy efficiency in these demand  
10 forecasts, including that of the publicly-owned utilities  
11 which do significant work on running efficiency programs  
12 and planning for ten-year targets.

13           On SONGS procurement issues, we recommend that  
14 this Commission uphold the State loading order and the  
15 statutes passed by the Legislature and remove language  
16 that seeks to replace SONGS with a mandatory 50 percent  
17 gas-fired generation. The statute passed by the  
18 Legislature does not say to procure half of the preferred  
19 resources and half gas-fired generation. Rather, it  
20 states that we need to procure all cost effective energy  
21 efficiency and demand response before procuring  
22 conventional generation.

23           Using a 50 percent gas-fired generation  
24 requirement will have significant health impacts on the  
25 communities in Southern California. Furthermore, there's

1 already an existing proceeding going on before the Public  
2 Utilities Commission to answer this very question. And  
3 the best estimates show that the assumptions used in this  
4 preliminary reliability plan are inaccurate and outdated.

5           Therefore, we recommend that the IEPR should not  
6 adopt a procurement recommendation to replace SONGS with  
7 the 50 percent gas-fired generation.

8           And a quick comment to my colleague, the  
9 United States Bureau of Labor Statistics do not support  
10 the statement the fossil fuel industry is more job  
11 intensive in a clean energy economy, but vice versa, it's  
12 been shown there are job multiplier effects from  
13 investments in the clean energy sector.

14           On zero net energy buildings, we recommend the  
15 Energy Commission modify the language in the ZNE section  
16 of the IEPR and show it is consistent with the intended  
17 purpose of the codes. On utility efficiency programs, we  
18 urge the Energy Commission set statewide goals for all  
19 utilities.

20           It's beyond the due date of November of last year  
21 to do so, and we encourage the Commission to do so with  
22 all speed. And thank you for considering our comments.

23           CHAIR WEISENMILLER: Thank you. Thanks for being  
24 here. Certainly thanks for your participation in the  
25 Joint Access Working Group and all the other

1 time-intensive forecasting stuff.

2 Let's go onto NRG. Brian Theaker.

3 MR. THEAKER: Good morning, Chair Weisenmiller,  
4 Commission. I'm Brian Theaker, Director of Regulatory  
5 Affairs for NRG Energy West. NRG currently owns and  
6 operates about 6800 megawatts of gas fired generation  
7 within the CAISO footprint, and we are in the process of  
8 acquiring additional generations from Edison Mission  
9 Energy which includes CHP. We also have approximately  
10 2,000 megawatts of solar PV, solar thermal resources that  
11 are now either operating or in development. And finally,  
12 we're also involved in deploying electric vehicle charging  
13 infrastructure and distributed solar resources.

14 We appreciate the IEPR's thoughtful and thorough  
15 approach to a myriad of energy issues. In particular,  
16 with support the IEPR's balanced approach to maintaining  
17 electric system reliability in Southern California after  
18 the retirement of SONGS Unit's 2 and 3.

19 NRG strongly believes that preferred resources  
20 have an important role to play in California's energy  
21 future, including maintaining reliability in Southern  
22 California.

23 At the same time, NRG strongly believes that any  
24 solution to Southern California reliability issues must  
25 include modern efficient natural gas-fired generation,

1 which provides both energy and the reliability services  
2 that are necessary to maintain reliability in Southern  
3 California. We believe that our thinking aligns with the  
4 IEPR's thinking in this regard.

5           So in conclusion, we commend staff for their  
6 effort on the IEPR and support its adoption. And I want  
7 to thank you for the opportunities to offer those  
8 comments.

9           CHAIR WEISENMILLER: Thanks for being here.  
10          Vote Solar, Jim.

11          MR. BAAK: Good morning. Jim Baak with Vote  
12 Solar.

13           First, I'd like to thank the staff and the  
14 Commission for the thoughtful and extensive approach on  
15 doing this integrated resource policy. The one issue that  
16 we do take issue with is use of the 50 percent of split  
17 between conventional and preferred resources to replace  
18 the San Onofre Generating Station. We believe that higher  
19 levels of preferred resources are achievable and necessary  
20 to meet greenhouse gas reduction goals, the aggressive  
21 goals the State has established. We think that decisions  
22 that are made to support natural gas are going to be with  
23 us for many, many years. And the consequences will be  
24 with us for 45, 50 or 60 years. We believe the IEPR  
25 shouldn't preclude -- codify, or endorse a 50 percent

1 renewable or preferred resources 50 percent conventional  
2 resources. Instead, we think that it should mention an  
3 all -- use of all cost effective preferred resources and  
4 not specify a percentage of preferred versus conventional  
5 resources.

6           And we think that the proceeding that's going on  
7 at the PUC is going to be a place where this is going to  
8 be determined and the demonstration project that Southern  
9 California Edison is proposing for preferred resources  
10 also help demonstrate the ability of these preferred  
11 resources to meet the needs of San Onofre.

12           So we support the IEPR with the change in the  
13 language away from the 50 percent to the use of all cost  
14 effective preferred resources. Thank you very much.

15           CHAIR WEISENMILLER: Thanks. Thanks for being  
16 here.

17           Steven Kelly.

18           MR. KELLY: Thank you, Commissioners. I'm Steven  
19 Kelly, the Policy Director the Independent Energy  
20 Producers Association.

21           I represent the non-utility owned electric  
22 generators. And I have the advantage and disadvantage of  
23 representing about one of every technology across the  
24 whole sphere of the industry you are addressing in this  
25 book, including preferred resources as well.

1 I want to support the adoption of the IEPR and  
2 moving forward. I applaud the lead Commissioner and the  
3 staff on balancing a whole lot of complex issues against  
4 various statutory obligations.

5 And I particularly want to emphasize the  
6 importance of recognizing what I think is a critical role  
7 of flexible resources, such as the natural gas facilities,  
8 in helping maintain California's good reliability over the  
9 planning horizon. This IEPR does that. And I applaud you  
10 for that.

11 There is a balancing tensions between what you  
12 call uncommitted resources and the need to maintain grid  
13 reliability. And I think this IEPR does a very good job  
14 of balancing that tension, and I support you for that.

15 In this regard, I do want to bring to your  
16 attention one issue that I've got related to planning for  
17 the next cycle, if you don't mind. I'm filing today at  
18 the PUC in the 2014 LTPP a document commenting on the  
19 planning assumptions there. And we're particularly  
20 concerned about policy makers receiving transparent and  
21 clear information about their policy choices on a going  
22 forward basis. And I'm concerned that the direction the  
23 PUC is taking may undermine this. And let me explain that  
24 briefly so you can watch for it in the next cycle.

25 And the issue is focused primarily on the base

1 case. My view is that there ought to be a base case that  
2 is based on existing resources from which you do a bunch  
3 of scenario planning to determine how to get to the  
4 preferred outcomes that you have. Right now, we're  
5 dealing with a tension between what I call stretch goals  
6 in the policy realm and the need to maintain grid  
7 reliability. And that comes front and center in the  
8 ten-year planning process, trying to combine where you  
9 want to be in 2050 with maintaining grid reliability  
10 through 2024. That tension I recognize and is important.

11 But what's going on right now are a number of  
12 advocates are trying to imbed in the base case their  
13 preferred assumptions about the direction you ought to go  
14 in your planning. And I caution you about this. I want  
15 all the regulatory agencies to be focused on the issue of  
16 making sure that the base case, which in my view is what  
17 we know today, is clean so that you can properly evaluate  
18 all of the policy options that you want to test going  
19 forward, whether it's 100 percent preferred resources,  
20 50 percent preferred resources or zero percent preferred  
21 resources. If you don't have a clean base case, it makes  
22 that calculation that much more complicated for policy  
23 makers. And it makes the transparency in your decision  
24 making that much more encumbered.

25 So I bring this to your attention. And

1 otherwise, I support adopting and moving forward with this  
2 IEPR.

3 CHAIR WEISENMILLER: Thanks for being here.  
4 Barbara Boyle, Sierra Club.

5 MS. BOYLE: Good morning, Barbara Boyle, Senior  
6 Campaign representative for Sierra Club.

7 I'm here to talk about the comments in the IEPR  
8 related to the preliminary reliability plan, which have  
9 been addressed by some of the previous speakers. We have  
10 a great concern about codifying, if you will, the proposed  
11 50/50 split between preferred resources and conventional  
12 generation. This was not subjected to the same kind of  
13 intense study and analysis that is going forward in the  
14 CPUC process and that is the appropriate venue for that  
15 decision to be made. We would not want to see the CEC  
16 prejudging what is essentially a decision that needs to be  
17 made at the CPUC. And that proceeding is still  
18 proceeding.

19 I would -- I don't want to repeat what other  
20 people have said. But I would want to make three specific  
21 comments. One is that an immediate result of San Onofre  
22 shut down is that greenhouse gasses have gone up in this  
23 state pretty significantly. I would agree with the  
24 Chairman that climate change is the primary challenge of  
25 this generation. And we must move forward as

1 precipitously as we possibly can.

2           Secondly, I would want TO address the issue of  
3 air quality in Southern California. As we all know, the  
4 area basins in Southern California are out of compliance  
5 with Clear Air Act standards. And that translates into a  
6 lot of suffering, everything from asthma to premature  
7 deaths in places like Orange County and San Diego. So  
8 those are issues we also need to consider when we make  
9 these kinds of decisions.

10           Finally, nuclear plants are starting to be  
11 scheduled to be shut down all across the country. It's  
12 certainly a pride for me and I think for many other people  
13 that California leads the nation in so many ways in moving  
14 us toward an environmentally benign kind of environment.

15           So I would encourage you to have California lead  
16 in this decision on how we replace San Onofre by really  
17 emphasizing preferred resources and setting a bar for the  
18 rest of the country, because they, too, need to move  
19 quickly to preferred resources. Thank you very much.

20           CHAIR WEISENMILLER: Thank you. Thanks for being  
21 here.

22           Eric Pendergraft of AES Southland.

23           MR. PENDERGRAFT: Good morning, Chairman  
24 Weisenmiller and Commissioners. I'm Eric Pentigraph, Vice  
25 President of Business Development for AES Southland.

1           First of all, we'd like to echo the comments of  
2 and others and thank both you and the staff for all the  
3 work and effort that went into the IEPR. We certainly  
4 support the final draft as it is, and in particular, want  
5 to demonstrate our support for the balance that is struck  
6 and the recognition that clean flexible and efficient  
7 natural gas facilities must be part of our future resource  
8 mix.

9           I think you know it's extremely important that we  
10 keep focused on our greenhouse gas reduction goals, but I  
11 don't think we can put all of our faith in preferred  
12 resources alone. They are certainly extremely important  
13 if we're going to meet our environmental goals. But the  
14 50/50 target for conventional and preferred resources, as  
15 outlined in the draft IEPR, I think is already an admitted  
16 stretch. And we don't know if that is even achievable.  
17 So the idea that all our future needs, at least in this  
18 planning horizon, can be met entirely with preferred  
19 resources I think is potentially dangerous and could have  
20 significant consequences if we're wrong.

21           You know, as it is, just to highlight it, you  
22 know, Edison has been authorized to procure a maximum of  
23 1200 megawatts of conventional gas resources and then  
24 they've requested authorization for an additional 500 and  
25 to replace SONGS. So that's a total -- if their request

1 is authorized -- of 1700 megawatts of conventional  
2 gas-fired resources.

3 To put that in perspective, that would replace  
4 more than 7,000 megawatts of OTC facilities in the L.A.  
5 basin if you include SONGS in Huntington Beach three and  
6 four. We're already talking about a maximum of 1700  
7 megawatts of conventional gas-fired resources to replace  
8 7,000 megawatts of existing resources. I think that's an  
9 extremely aggressive target.

10 Urge to you continue to keep your focus on the  
11 big picture. Preferred resources are certainly an  
12 important part of our plan, and we support it. But our  
13 priority needs to be on doing what is practical and  
14 possible. And that should include clean natural gas-fired  
15 resources. Thank you again.

16 Just to close, we are as actively involved in  
17 pursuing natural gas, energy storage, and utility scale  
18 solar PV and are deeply committed to helping California  
19 meet its environmental and energy goals.

20 CHAIR WEISENMILLER: Great. Thanks for being  
21 here.

22 Tamara Rasberry.

23 MS. RASBERRY: Thank you, Commissioners. Good  
24 morning. Tamara Rasberry representing the Sempra Energy  
25 Utility Companies, SoCal Gas, and San Diego Gas and

1 Electric.

2           We would first like to thank the Commission and  
3 the staff for all their hours of hard work and dedication  
4 and finalizing this IEPR, which we support today. And we  
5 appreciate the Commission's attention to the concerns  
6 raised by Southern California Gas Company and are pleased  
7 with the changes in the errata sheet that were released  
8 last night. Specifically, we appreciate the intent  
9 language added to the definition of zero net energy,  
10 allowing for future discussions with stakeholders.

11           We did ask that the word "adopt" not be adopted  
12 today but we like where this new language is going. And  
13 so with that, we do support the adoption today of the  
14 IEPR.

15           I did want to point out that we have a great team  
16 at Southern California Gas Company. And they noticed a  
17 factual error on page 90 of the IEPR. I don't know which  
18 page it is on the errata sheet. But in discussing the  
19 proposed pipeline that we're filing at the CPUC, the  
20 document states that this new pipeline running  
21 approximately from Algotano to Rainbow, and it's actually  
22 running from Algotano to Moreno. So we just wanted to  
23 make sure that was corrected.

24           CHAIR WEISENMILLER: Let me ask the staff if they  
25 agree with that correction.

1 MS. RAITT: Yes, we do.

2 MS. SPIEGEL: Linda Spiegel with the Energy  
3 Commission.

4 And yes, we appreciate you pointing that error  
5 out. It's to Moreno. And we have Rainbow, but that's  
6 just the name of the corridor. So they're correct.

7 CHAIR WEISENMILLER: So can we add that to the  
8 errata? Staff, would you agree to add it to the errata?

9 MR. RAITT: Yes.

10 CHAIR WEISENMILLER: Thank you. Go on.

11 MS. RASBERRY: That's it with that. I just thank  
12 you for all your work and we support the adoption of the  
13 IEPR today. Thank you.

14 CHAIR WEISENMILLER: Thank you.

15 Ben Davis.

16 MR. DAVIS: Thank you. I'm Ben Davis from the  
17 California Nuclear Initiative.

18 I don't support the adoption of the IEPR. At the  
19 workshop, I brought up the fact that the 2013 IEPR does  
20 not reflect the changes in California's reliance on  
21 nuclear power that have happened since the 2011 IEPR. At  
22 the time Fukushima happened, we assumed after many  
23 questions and hearings before this Commission that  
24 California relied on nuclear energy to the point that if  
25 we turned off our nuclear power plants, we would have

1 rolling blackouts, costing the states tens of billions of  
2 dollars according to Cal ISO's work with the Legislative  
3 Analyst's Office. Now we know that was wrong at the time  
4 and it certainly wrong now. Now for the first time since  
5 it opened, we can close Diablo Canyon and all nuclear power  
6 plants in California without dropping below our 15 percent  
7 energy surplus requirement.

8           That's not in here. The fact that it's changed  
9 so drastically since Fukushima and that none of the  
10 information about how that's changed is in this 2013 IEPR,  
11 to me, says that it actually drops the IEPR below legal  
12 standards. You have a requirement to report this  
13 information to the Legislature, the Governor, and the  
14 people. This does not give any of that information to  
15 them.

16           A specific piece of evidence which was a  
17 requested by this Commission, you requested the Cal ISO,  
18 the PUC, and yourselves work together to find -- study how  
19 much reliance we had on nuclear power and end that  
20 reliance. You made this recommendation in your 2007 IEPR  
21 and again in your 2011 IEPR.

22           Since that time, Cal ISO finished that study in  
23 March and specifically says it's for the 2013 IEPR that  
24 you've left it out of the 2013 IEPR. At the time you  
25 recommended this study, it was known that you were reliant

1 on nuclear power, that we would have rolling blackouts  
2 potentially if we didn't have San Onofre. At the time  
3 they finished the study, the study concluded that we  
4 weren't reliant on nuclear power, that we maintained grid  
5 stability without it. Yet, you've left it out of the 2013  
6 IEPR, although it was requested for that. Without that,  
7 this 2013 IEPR does not meet your legal requirements.

8           Lastly, I would note I'm the only one in this  
9 building with a short sleeved shirt. It's not a good  
10 precedent for you to have an Energy Commission meeting  
11 dealing with conservation and air condition to the room.  
12 In fact, the air conditioner went off about five minutes  
13 ago. I noticed.

14           But in Japan, I was talking with a reporter from  
15 Japan yesterday. Regulations prohibit air conditioning in  
16 the room to the point where people have to wear suits.  
17 Everybody else in this room has a suite but me. I was  
18 very uncomfortable until three or four minutes ago when  
19 they turned off the heat.

20           If you explain to me why the California ISO  
21 report was left out that was in March, I would appreciate  
22 hearing that. If I've overlooked something, I would  
23 rescind my suggestion that you do not pass this IEPR  
24 without first updating it. Thank you very much.

25           CHAIR WEISENMILLER: Okay. Thanks for being

1 here.

2 Let's go to Rochelle Becker.

3 MS. BECKER: Good morning to my favorite  
4 Commission.

5 I think it's rather ironic that we began the  
6 meeting with a test of earthquake preparedness if Diablo  
7 Canyon, a nuclear power plant that doesn't meet its  
8 seismic design -- (inaudible) earthquake. And it's the  
9 subject before the NRC, before Congress, and before  
10 several other agencies. So we appreciate the  
11 recommendations that you've put in your IEPR.

12 We ask that you update it next year and not wait  
13 two years. Waiting two years for a nuclear power plant  
14 issue has been a problem. Two years ago, we didn't expect  
15 San Onofre to not operate. And now it will never operate  
16 again.

17 Diablo Canyon could very well be in the same fix  
18 in a short period of time. Once-through cooling issues  
19 are coming to a head. They are going to be very expensive  
20 and very environmentally damaging if they go for the  
21 alternatives. The seismic issues are certainly unresolved  
22 and could require expensive retrofits. The waste issue is  
23 certainly coming to a head of now knowing that we may have  
24 to store this on our coast for several hundred years. So  
25 how much more do we want to produce at the plants.

1           So we thank you for your considered  
2 recommendations that you've put in the IEPR this year. We  
3 ask that you update it next year because so much is  
4 happening and losing 2200 megawatts quickly is a problem.  
5 Fortunately, not as much a problem in Northern California  
6 as it was in Southern California. But being prepared is  
7 always a good idea.

8           So I look forward to seeing you next year when  
9 you do have some updates. And thank you for your  
10 recommendations.

11           CHAIR WEISENMILLER: Thank you. Thanks for being  
12 here.

13           David Weisman.

14           MR. WEISMAN: Good morning, Commissioners. David  
15 Weisman, Alliance for Nuclear Responsibility.

16           I think perhaps in anticipation of the fact you  
17 would be dealing with the Office of Emergency Services  
18 this morning, I wore my of the map of San Andreas fault  
19 tie, visual description we have lets people see. I'd like  
20 to have it modified if anyone knows a particular tailor to  
21 we could include the Hosgrifault and the Shoreline fault  
22 that are more the direct threats there to San Luis Obispo.

23           Having said that, we appreciate your  
24 recommendation. The seismic interest of course began with  
25 your report almost six years ago. Now, we know that the

1 Regulatory Commission has set 2015 as deadline by which  
2 they expect Pacific Gas and Electric to submit their  
3 amended and revised seismic updates and in the  
4 post-Fukushima requirement environment.

5           You, yourself, at the latest workshop had a  
6 representative from the Nuclear Regulatory Commission here  
7 saying they do not expect Diablo low to meet its ground  
8 motion design bases for that time. And they would put  
9 them into another three years they would be allowed to  
10 work those numbers to figure out what the answer is, which  
11 means in a sense may not have a real answer on the seismic  
12 certainty until as far out ahead as 2018.

13           What I will recommend to the Committee in  
14 addition to the adoption and the recommendation that you  
15 have is that you have the ability to pay scrutiny to the  
16 ongoing investigation, the seismic -- Senior Seismic  
17 Analysis Committee, which is the process by which they  
18 will determine this, will be having their third and public  
19 and final set of meetings this coming March, we're told,  
20 in San Luis Obispo for both the ground motion studies and  
21 the seismic source characterization, which will determine  
22 those answers.

23           The observation we have particularly for the  
24 ground motion is that the science is challenged, that  
25 we're seeing potential conflict of interest between the

1 parties involved in this proceeding, the fact there are so  
2 few specialists in this particular field. And they're  
3 serving as both the peer reviewed panelists and proponent  
4 experts for the various factures and utilities.

5 We invite you to continue your participation by  
6 keeping an eye out on these upcoming seismic hearings so  
7 when the final results are delivered, you have a sense of  
8 the degree of the science, the scrutiny, and the oversight  
9 that went into arriving at those decisions and that you've  
10 been working with those numbers and that information for  
11 your future reports.

12 So thank you very much for your diligence so far.  
13 And we hope you'll continue to keep an eye on the seismic  
14 development.

15 CHAIR WEISENMILLER: Thank you.

16 Valerie Winn.

17 MS. WINN: Good morning, Commissioners. Valarie  
18 Winn for a Pacific Gas and Electric Company.

19 I, too, also want to add my thanks to the  
20 Commission. Our review of the IEPR and our involvement  
21 throughout it has been very positive, and we feel that the  
22 final IEPR represents a very balanced perspective of the  
23 numerous stakeholder perspectives that have been set  
24 forth.

25 We have filed comments on both the draft IEPR and

1 the final Commission -- lead Commissioners IEPR. And we  
2 are very pleased to see a number of our comments  
3 incorporated into the text, particularly in the areas of  
4 natural gas on nuclear issues and on zero net energy. And  
5 we look forward to continuing to work on the zero net  
6 energy definition. We think that's going to be very  
7 important as we move forward and look forward to  
8 continuing that discussion.

9           Finally, I did want to offer our thanks to the  
10 staff, Heather, who's finishing up the IEPR, Susan who  
11 started the IEPR, and a whole bunch of other people who  
12 have run the workshops and lined up panelists and worked  
13 with us too on different issues. So thank you very much  
14 and we look forward to continuing to work with you on the  
15 2014 IEPR. Thank you.

16           CHAIR WEISENMILLER: Thank you.

17           Marissa Blunschi.

18           MS. BLUNSCHI: Good morning. Marissa Blunschi  
19 from Southern California Edison.

20           We very much appreciate the opportunity to  
21 provide these public comments on the final report for the  
22 2013 IEPR. Edison commends the Energy Commission staff  
23 for their tremendous efforts in completing the IEPR final  
24 report. And we believe that the IEPR will help to shape  
25 key energy and environmental policy issues that will guide

1 California to a cleaner energy future.

2 Edison has been coordinating very closely with  
3 Energy Commission staff and other stakeholders on a number  
4 of energy policy issues, including energy efficiency  
5 standards and particularly those related to the zero net  
6 energy codes. Edison looks forward to continuing its  
7 coordination with the Energy Commission and stakeholders  
8 on ZNE efforts as those codes are developed further and  
9 refined and implement in supporting achieving California's  
10 ZNE goals.

11 Edison also supports te Energy Commission's  
12 efforts to promote preferred resources, which include  
13 energy efficiency, demand response, and renewable  
14 distributed generations. And we recognize them as a  
15 crucial component in leading California to a cleaner  
16 energy future. To that end, Edison has been coordinating  
17 closely with stakeholders to move forward with its  
18 preferred resources pilot, which explores the ability of  
19 preferred resources and energy storage to meet local  
20 reliability needs in the areas of Edison service territory  
21 most effected by the recent SONGS shut down.

22 Though Edison acknowledges the importance of  
23 preferred resources in advancing California's energy and  
24 environmental policy goals, Edison also strongly supports  
25 a balanced approach for addressing local reliability needs

1 in Southern California. Edison supports a strategy that  
2 includes further development of preferred resources, along  
3 with transmission facilities and additional conventional  
4 gas-fired generation where necessary to maintain grid  
5 stability and reliability.

6 Edison also believes that efforts to assure  
7 reliable service should be consistent with reasonable cost  
8 to all rate payers.

9 Edison has submitted formal written comments on  
10 the final IEPR, which articulate our support of the final  
11 report and provide greater detail on remaining  
12 clarification issues.

13 Thank you very much. We very much appreciate  
14 your efforts and support the final IEPR. Thank you.

15 CHAIR WEISENMILLER: Thank you. Thanks for being  
16 here.

17 I believe we covered everyone in the room that  
18 wants to speak. So let's go on to those on the phone.

19 Let's start with the San Diego Regional EDC, Mr.  
20 Beizer.

21 MR. BARR: Yes. Good morning. It's actually  
22 Sean Barr, Vice President of Economic Development with the  
23 San Diego Regional EDC.

24 Thank you for taking the time this morning.  
25 Thank you for the invitation to join you. And we here at

1 San Diego Regional EDC appreciate the efforts, thoughtful  
2 discussion of, and approach to many issues, especially the  
3 issue of ensuring Southern California reliability.

4 Our message here this morning is about maximizing  
5 our region's economic prosperity and global  
6 competitiveness. That is the mission of the San Diego  
7 Regional Economic Development Corporation. And the role  
8 energy balance plays in fulfilling our mission and the  
9 region's economic prosperity is a critical one.

10 A big factor in our ability to retain, expand,  
11 and attract the businesses, talent, and investment here in  
12 San Diego is certainly tied to the energy cost and the  
13 cost and the result of the cost of doing business in San  
14 Diego and Southern California.

15 So a good energy mix is something that we concern  
16 ourselves with and is certainly something that effects the  
17 cost of doing business and energy cost here in our region,  
18 and as a result, effects the region's competitiveness.

19 So we want to thank the Commission for their  
20 thought and appreciate the thoughtful discuss around the  
21 IEPR. And we would appreciate the Commission keeping this  
22 in mind as you move forward. Thank you for your time.

23 CHAIR WEISENMILLER: Thank you.

24 Let's go on to the Carlsbad by Chamber of  
25 Commerce, Ted Owens.

1 MS. PADRON: Good morning. This is actually Toni  
2 Padron. I apologize Ted had to leave this morning.

3 I first want to thank all of you for your time  
4 and service. My team is Toni Padron. I'm the Chief  
5 Operating Officer here at the Chamber.

6 For over 90 years, the Carlsbad Chamber of  
7 Commerce has worked to promote a sustainable business  
8 climate for the 1,600 businesses, member businesses, and  
9 more than 75,000 employees in and around our city.

10 This is why we pay close attention to issues in  
11 Carlsbad that could impact not only the ability of local  
12 businesses to thrive, but also matters that could impact  
13 the quality of life in our community.

14 We have followed developments at the San Onofre  
15 plant and continue to be concerned about the closure  
16 effecting the reliability of our power supply. We are all  
17 dependant on electricity for health, safety and commerce.  
18 A few years ago, we were painfully reminded of that fact  
19 during the blackout that affected our region.

20 On behalf of the Carlsbad Chamber of Commerce, I  
21 would like to express our strong support for the  
22 integrated energy policy report. We are all well aware of  
23 the intermittent nature of the renewable power and  
24 responsibility of transmission lines to wild fires.

25 The new efficient and flexible gas-fired

1 generating units now available will help address the  
2 reliability problems that are created by the retirement of  
3 San Onofre and truly reliable service to the millions of  
4 people living in the region whose livelihood and lifestyle  
5 depends on reliable and affordable power. In the Carlsbad  
6 San Diego County region, that is a best solution.

7 Many of you may be aware the Carlsbad City  
8 Council last night approved an agreement with NRG and  
9 SDG&E on a gas fired peaker project. The Chamber has long  
10 supported the proposed Carlsbad Energy Center, and we hope  
11 this demonstrates the willingness to do our part to ensure  
12 economic health of the region.

13 Thank you so very much for this opportunity. And  
14 again thank you for your time and attention and service.

15 CHAIR WEISENMILLER: Thank you.

16 Dean Worter.

17 MR. MAC LAUGGAN: Good morning, Commissioners.  
18 My name is Peter MacLauggan with Poseidon Water, LLC. And  
19 I would like to thank you for this opportunity to comment  
20 on the 2013 Integrated Energy Policy Report.

21 Poseidon is constructing a large scale  
22 desalination plant in partnership with the San Diego  
23 County Water Authority. This plant is located adjacent to  
24 the Encino Power Station in Carlsbad. When completed in  
25 2016, the plant will provide 50 millions gallons per day

1 of potable drinking water. San Diego County Water  
2 Authority currently imports about 80 percent of its water  
3 supply from the Colorado River in Northern California.

4 The purpose of the desal project is to provide a  
5 local draught resistant supply of water to meet the water  
6 supply reliability needs of San Diego County's three  
7 million residents and \$90 billion plus annual economy.  
8 When the plant goes on line in 2016, it will be a critical  
9 component the regional water supply portfolio.

10 Given the loss of the San Onofre Nuclear  
11 Generating Station, we're concerned about the reliability  
12 of the region's power supply. The desalination plant  
13 relies on electricity to produce a continuous supply of  
14 drinking water. As is the case with water supply  
15 reliability, we believe the solution to a reliable grid is  
16 a robust mix of power supplies that includes investment  
17 and local generation capabilities.

18 In a few years, the power plants along the coast  
19 will be retired to comply with the once-through cooling  
20 regulations. This will expose this region to an  
21 unmanageable power supply void in steps are not taken to  
22 replace the power currently provided by these units. It's  
23 our opinion those steps should include deployment of new  
24 technology in smaller, cleaner, more easily managed  
25 natural gas-fired generating stations.

1           We've taken steps to ensure the Carlsbad  
2 desalination plant operations will be carbon neutral to  
3 investment in demand reduction, on site solar, use of  
4 recycled CO2 in the water treatment process and  
5 acquisition of carbon offsets through State-approved  
6 projects. Water and power are among our most vital of our  
7 resource needs, and we support the inclusion of a mix of  
8 gas-fired generation and preferred resources in the IEPR  
9 to help ensure grid reliability.

10           Thank you again for the opportunity to comment in  
11 and support the Commission's adoption of the 2013  
12 Integrated Energy Policy Report. Thank you.

13           CHAIR WEISENMILLER: Thank you.

14           George Nesbitt.

15           MR. NESBITT: Yes. George Nesbitt, HERS Rater.

16           Since 1999, when the Energy Commission started  
17 regulating HERS raters separate from RESNUT and the rest  
18 of the country, you've increasingly relied on us through  
19 every code cycle. More and more utility rebate programs  
20 have relied on us for verification, and you will continue  
21 to rely on us more in the future as we move towards ZNE.

22           National programs, Energy Star, and Energy  
23 Efficient Mortgage have always relied on us. And  
24 increasingly, programs like what's now DOE Challenge Homes  
25 as well as other green rating programs have also been

1 relying on HERS raters. Yet, the IEPR has no mention, no  
2 mention as part of the AB 758 initiative for existing  
3 buildings or otherwise inefficiency or ZNE. Is there any  
4 mention of the role, the importance, and the need for HERS  
5 Raters? Yet, without us and utility rebate plan checks,  
6 code implementation and enforcement would be far worse  
7 than it is.

8           On ZNE in December of 2008, Commissioner Douglas  
9 and the other Commissioners at the time adopted the  
10 expansion of the HERS program from just a verification  
11 role to also energy modeling role. Created a rating  
12 system. And that rating system defines a code minimum  
13 home as 100 and ZNE home as zero. You adopted a  
14 definition of a ZNE home. And reading from the Title 20  
15 regulations, a ZNE home means a home that has met an  
16 annual time dependant value energy consumption of zero,  
17 accounting for both energy consumption and the use of  
18 on-site renewable energy production.

19           And I suggest we should use that definition. And  
20 in the IEPR, the IEPR needs to reiterate the ARB and the  
21 CPUC goal of ZNE homes all by 2020, as well as the need  
22 that we need to up Title 24 Part 6 towards that goal. But  
23 ultimately, that ZNE, whether we regulate it as a code  
24 requirement or not, we have a rating system that defines  
25 it, people that are certified and trained, to deliver it.

1 And nationally last year, HERS ratings increased 70  
2 percent and jurisdiction after jurisdiction are requiring  
3 HERS rating for new construction and the hers rating  
4 system has been written into the 2015 international  
5 residential code of being recognized as well as requiring  
6 HERS scores of below a code minimum -- better than a code  
7 minimum home. And yet all of --

8 CHAIR WEISENMILLER: Could you wrap up now?

9 MR. NESBITT: Yeah. I'm done.

10 CHAIR WEISENMILLER: Okay. Thank you. I believe  
11 this as all the callers on the phone. So let's transition  
12 now to the Commissioners.

13 Commissioner McAllister, do you want to start us  
14 off?

15 COMMISSIONER MC ALLISTER: Thank you all for  
16 being here. This is the culmination of a long, long  
17 process. Obviously, I do have some fairly extensive  
18 comments. And I won't read the document into the record  
19 obviously, but I'll try to modulate so that you all stay  
20 awake.

21 But there are a lot of people to thank. There is  
22 a bit of context I'd like to give and a lot of people to  
23 thank here. I hope you'll bear with me and certainly  
24 appreciate all of you being here.

25 As Heather mentioned, the IEPR is quite a long

1 process that requires extensive collaboration among staff,  
2 stakeholders. Very much collaboration within the  
3 Commission. And also out there in the world and many of  
4 the people in the room have really been stalwarts here.

5           And the reasons for that and why we frame it the  
6 way we do is because we are completely committed to  
7 ensuring transparency and a transparent process that  
8 fosters inclusively, collaboration, meaningful dialogue on  
9 the issues of the day.

10           Just today in the comments, you heard a lots of  
11 different opinions about the same issues. That's part of  
12 our democracy. That's how we operate. Hat's a good  
13 thing.

14           For me, personally, I'll just say the CEC  
15 tradition of tagging the rookie on the Commission with the  
16 lead role in the IEPR provided me with a terrific and  
17 hugely interesting induction in public service at this  
18 agency. I'm grateful for that, in fact. And I'm  
19 particularly want to thank Chair Weisenmiller for  
20 partnering with me most of the way. After the departure  
21 of our esteemed colleague, now PUC Commissioner Peterman.  
22 And really it was great to work with Chair Weisenmiller,  
23 his insight on the process itself and leadership on a  
24 number of the issues that we were grappling with in the  
25 IEPR was invaluable, I would say. Not the least of those

1 are the demand forecast, the Southern California  
2 reliability issues, which this year directly engaged the  
3 leaderships across the energy agency, the ISO, the PUC,  
4 and the ARB as well, and the water authority, I mean, the  
5 quite extensively across the agencies, as well as the  
6 SONGS and nuclear power issues more generally. So his  
7 support and engagement on those issues have been very,  
8 very worthwhile and invaluable to me. So thank you, Chair  
9 Weisenmiller.

10           So after 29 public workshops, which wasn't a  
11 record, but it was getting up there towards the end,  
12 extensive stakeholder input, substantive dialogue, among  
13 the agencies, which I've mentioned, but also including  
14 Natural Resources Agency, Cal Fire, federal agencies, NRC  
15 and others, Department of Energy, and a huge breadth of  
16 other stakeholders and various iterations of the document,  
17 edits from staff and Commissioners based on public  
18 comments. We are, I think, proud of -- I particularly can  
19 speak for myself, we're proud of the final product.

20           Also wanted to thank my fellow Commissioners, the  
21 rest of the Commission here, for their review and their  
22 offices' review and interaction with staff on the document  
23 on the draft through Heather and her team.

24           So we sincerely hope the IEPR will serve the  
25 public well and provide meaningful discussion on these

1 core issues of the day. I believe it will and already  
2 has. It happens periodically and each IEPR is a new set  
3 of -- new group of issues, but many of them persist. And  
4 I think we've heard that many of you would like certain  
5 issues to persist. And as they've evolve, they  
6 undoubtedly will.

7           So I'm not one to shy away from challenging  
8 topics. And at the same time, respect the process. And  
9 this IEPR has been a balance. I think between really  
10 being as inconclusive as possible, but getting to the  
11 issues. We have a time line. It has to happen in a year.  
12 It's really the train is going to leave on time. I think  
13 Heather and Susan and the team have really taken seriously  
14 our statutory obligations to get it done. It must get  
15 done because we have another one to start here pretty  
16 soon.

17           So I want to make a couple of comments on  
18 specific issues. You know, from my perspective, being  
19 lead Commissioner on energy efficiency and natural gas for  
20 much of the year and energy efficiency including demand  
21 response, I think those issues really have taken a lot of  
22 focus to begin to get through. There are a lot of  
23 sub-issues there within energy efficiency. There are  
24 many, many challenging topics. But now has been the  
25 moment. This year has been a key moment. And the product

1 is an important step forward.

2           So specifically on demand response, it really is  
3 one of the front and center options for California to  
4 maintain reliability electric system for the long term.  
5 We've heard there is a diversity of opinions on preferred  
6 resources. And demand response really is front and  
7 center. It's a demand side and a resource that is  
8 under-utilized in the state. And how much can we get, how  
9 quickly we can scale it I believe is still an open  
10 question. IEPR has provided a nice forum for having those  
11 discussions. If you asked me a few years ago if I was  
12 going to be front and center pushing the demand response  
13 discussion, I would have told you you were crazy. But  
14 it's time came with SONGS retirement particularly. But  
15 all the other issues we have and we've talked about  
16 repeatedly in Southern California, it's number one in the  
17 loading order. It's staring us in the face. It's  
18 under-utilized. We have to figure out how to make it  
19 happen.

20           It's not a technology problem. It's a markets  
21 problem. We have a lot of great technology that can help  
22 us scale up. We have to make it worthwhile in the real  
23 world. This is really where the rubber hits the road  
24 between policy and execution and implementation.

25           Again, this is an issue that really does stretch

1 across the agencies. And our goal here, my goal in the  
2 IEPR process, has been to create a platform for the  
3 relevant agencies to come together and begin to work it  
4 out. We're seeing that already. I'm really grateful to  
5 the PUC Commissioner Chair Peevey and Commission Florio on  
6 this issue for engaging their agency with Steve Berberich  
7 and the staff at the ISO for engaging on it as well. They  
8 both really pushed forward because we were having this  
9 discussion, in part, at least. So I think the IEPR  
10 process has been helpful in this way. It's critical we  
11 can't stop here. This is the end product for the IEPR,  
12 but this process and this discussion on demand response  
13 must continue.

14           So on energy efficiency, this something near and  
15 dear to my heart. I've spent a lot of days with my  
16 sleeves rolled up on particular issues with energy  
17 efficiency. It's a big topic. And California has an  
18 august history that I think -- I definitely am very aware  
19 of. There are a lot of big shoes to fill in California's  
20 history on energy efficiency. We have been such a  
21 pioneer, and we absolutely need to continue to be.

22           We focused on a group of topics, both on new  
23 buildings, new construction, and existing buildings. Net  
24 zero -- new net energy buildings, number of people  
25 commented today and the discussion has been very robust

1 along the way. A lot of different opinions on that.

2           And again, it gets to one of these issues where  
3 we can provide a platform. We do have authority in some  
4 very important ways over code. We own the code. But  
5 implementation of zero net energy could happen in a number  
6 of scales. So there are regulatory issues that are beyond  
7 us. So again, really points to the need for inter-agency  
8 collaboration and sort of a cogent regulatory structure  
9 that we are going to have to collaborate across agencies  
10 to develop going forward. So I think highlighting those  
11 issues and the need for it really is a common theme in  
12 this IEPR.

13           In this particular, the AB 758 Action Plan -- on  
14 the existing building front, the 758 Comprehensive Energy  
15 Efficiency Action Plan for existing buildings will dive  
16 much more -- more deeply into possible policies, voluntary  
17 and mandatory to advance statewide plan for existing  
18 buildings. That's an important effort that's ongoing.  
19 It's taking a while because it's a difficult arena,  
20 frankly. And again, another place where interagency  
21 collaboration is really key. Implementation of the  
22 utility programs with the IOUs is at the PUC. How do we,  
23 the data issues the benchmarking, the granularity, all of  
24 these issues we talked about throughout the year are --  
25 must be brought to bear on the existing building problem.

1 It's going to have to be done largely within markets  
2 supported by policy. So we have to engage with markets in  
3 a way that isn't -- doesn't fit the typical regulatory  
4 framework, just sort of top down regulatory mandate  
5 framework. So these challenges I think are highlighted in  
6 the IEPR and are very helpful going forward to frame or  
7 discussion and keeping having productive outcomes.

8           On the demand forecasts, I would very much like  
9 to acknowledge again the interagency effort, the CEC the  
10 PUC, the CPUC, the California ISO that went into  
11 coordinating and arriving at a single forecast. This  
12 is -- it may seem small to the uninitiated here, but this  
13 is a really big deal. The fact that we have gotten really  
14 sustained engagement across the agencies, respecting the  
15 need for a common platform for our planning going forward.

16           And it is not an easy thing to do, and I think  
17 we've made a really important step this year. Lots of  
18 other -- if you read the document and you read the  
19 statement that we're making about the forecast, there's  
20 still a few more steps in the future. Again, information  
21 understanding, regional approaches, and building the  
22 infrastructure to support that decision making at that  
23 level. So we have to go forward in a deepening our  
24 forecasting here at the CEC and across the agencies  
25 analyses that goes into that, particularly in the electric

1 sector.

2 I've mentioned data needs. I think many times  
3 throughout the year the development of the IEPR served as  
4 a reminder of the critical need for good information. And  
5 this need expands across issue areas, transportation,  
6 energy efficiency, definitely within the forecast. You  
7 know, and industry sectors, the IOUs and the POUs have  
8 different but complementary issues.

9 So if we are to perform our duties, really at the  
10 level that we expect and the State needs, assessing the  
11 key energy issues facing California, properly implement  
12 programs, test their effectiveness, understand the  
13 marketplace, what's going on there. We really do need to  
14 improve our access to various kinds of data. And you  
15 know, we can't rely on vested interests necessarily for  
16 all of that information. We really have to have an  
17 objective, a broad collection of data.

18 And we have quite a bit of authority to do that  
19 at the Energy Commission, and we also want to maintain  
20 transparency in the process. So balancing those things  
21 going forward is something that I particularly in my  
22 office is focused on. Going forward. So again, the IEPR  
23 has provided a nice platform for some of these  
24 discussions.

25 So with that, I want to call out the errata.

1 This is a fairly dense document here with the errata. And  
2 I want to just highlight that we have had discussions with  
3 stakeholders for the entire year now. And I want to  
4 acknowledge staff's diligence and sincere effort to ensure  
5 that the process is transparent as it can be. The errata  
6 goes into quite a bit of detail and I think demonstrates  
7 that commitment. Right up until the last minute last  
8 night, we were hacking over a couple different word  
9 choices and making sure we were reflecting discussions and  
10 where we wanted to come down with all the stakeholder  
11 input. So we've worked really hard to be responsive, and  
12 I commend Heather and the team for that.

13           So I will go on to some extensive list of thanks  
14 you here. A lot of people worked on this document. And  
15 they deserve acknowledgement, and I want to provide that.

16           So I want to personally thank Suzanne Korosec  
17 sitting back there hidden in the back. But she got this  
18 train out of the station early in the year and managed it  
19 very, very well. Handed off the Heather Raitt, her  
20 capable successor who has really shown I think in the last  
21 few months here how capable she is on this and taking us  
22 through the final development and key stakeholder  
23 discussions and adoption today if we vote the approve of  
24 the IEPR.

25           And all of the team, all the IEPR team, Lynette

1 Green, who is the project manager; Stephanie Bailey,  
2 extraordinare and for their many contributions and  
3 commitment. I mean, I can't tell you how many late nights  
4 they've spent. Also Laura Ernst, IEPR's project  
5 secretary. So that core IEPR team has just been fabulous  
6 to work with.

7           The two advisors at the two offices, Pat Saxton  
8 and Hazel Miranda. They were just in constant discussions  
9 with stakeholders and with the Chair's office where Kevin  
10 and Sekita were the two leads. Kevin Barker and Sekita  
11 grant. And I think that facilitation really made it a  
12 better product.

13           On energy efficiency, I'd like to thank Christine  
14 Collopy, Joy Loyer and also Sylvia Bender's team who is  
15 not the efficiency division but who really did matrix work  
16 on the efficiency topic within the forecast. That was  
17 very helpful.

18           Demand response, David Hungerford was the lead on  
19 that chapter. And really thank him for bearing with us  
20 with all of the -- there was a lot of interesting  
21 discussions around demand response. And it's a tough nut  
22 to crack. And we haven't succeeded in California, and we  
23 really I think are creating that opportunity to really  
24 have it succeed going forward.

25           Bioenergy, Garry O'Neill-Mariscal was the

1 fearless leader on that topic and did a great job.

2           Electricity, there are various issue areas, a lot  
3 of deep knowledge in the Commission. And I just have to  
4 say I'm incredibly impressed by the level of commitment  
5 and the expertise we have here at the Commission on the  
6 various electricity issues. We use a lot of complex tools  
7 and juggle an immense amount of information I think with a  
8 high level of precision to work through the forecast in  
9 the particular, but really all of these issues that I'll  
10 mention a few of the key people in. Lots of opinions  
11 around and crafting assessments is not just a plug and  
12 check thing. It takes deep knowledge. We have it in  
13 spades here.

14           Chris Kavalec in the demand forecast as well as  
15 Nick Fugate, they have done a great job on this. Heavy  
16 demands on their time and expertise.

17           Mike Jaske on the infrastructure issue.

18           Ivin Rhyne on the cost of generation section. We  
19 had a couple of great workshops that he managed  
20 extraordinarily well.

21           And again Sylvia Bender, her contribution on EE  
22 and interagency coordination on the single managed  
23 forecast. I thank Sylvia back there. Thanks for all  
24 that.

25           Again, a lot of little bit -- few tense moments,

1 but in general, just I think a good first experience and  
2 successful experience on getting to yes across the  
3 agencies with differing opinions. And I think a lot of  
4 very useful education across agencies and bringing each  
5 other up to speed with our different cultures. And that  
6 really bodes well I think for the future of getting much  
7 more granular and better mechanisms for doing the analysis  
8 earlier on and really meeting the challenges of the future  
9 forecast.

10           David Vidaver and Angela Tanghetti on the 2030  
11 electric system analysis. We're very, very impressed with  
12 that team. Brought up a lot of long-term issues that are  
13 going to come up over and over in future forecasts as we  
14 even heard today and through the workshops. This is one  
15 stop along a pretty long journey for California. And we  
16 have to -- we cannot sacrifice reliability and will not.  
17 But we also have some needs, requirements, and desires of  
18 population and elected officials to get to a cleaner  
19 energy future. So we have to do both of those things.  
20 And there is a lot of steps that we need to take. And  
21 we're going to be gathering a lot of knowledge on the way  
22 to make good decisions.

23           On transmission, Ean O'Neill and Judy Grau and  
24 their team did a great job.

25           Nuclear, Joan Walter was the maven of the topic

1 and did a great job. Again, a lot of differing opinions  
2 and evolving situation.

3           Natural gas, Linda Spiegel, her first IEPR in  
4 that capacity I think did a terrific job. And her staff  
5 is -- I think she's really integrated herself well into  
6 the team incredibly well in providing leadership as well  
7 as Silas Bauer and others on Linda's team.

8           Bryan Neff on CPH.

9           Transportation, that chapter could have been  
10 much, much larger. In fact, it was for a little while.  
11 But that's because there is so much to talk about in  
12 transportation. And because our transportation staff is  
13 so dedicated and committed and knowledgeable about that  
14 area. And I want to just really call out Commissioner  
15 Scott directly for her active review with staff of the  
16 transportation chapter and also leadership she provided to  
17 her staff. In particular, Tim Olson and Jim McKinney  
18 really stand out as fantastic resources for the Commission  
19 on that, that topic area.

20           On climate change, Guido Franco and David Stoms  
21 are climate change research has really stepped it up. And  
22 I commend them on their terrific work.

23           So those are my brief comments. I've really  
24 enjoyed working on this. I think it's fantastic to get to  
25 the finish line, provides a lot of good assessments that

1 are policy relevant.

2           One challenge we may have is communicating this  
3 to policy makers outside of this agency, certainly to the  
4 public. We need to work hard at that. There is a lot in  
5 here and not always intelligible to lay folks because we  
6 get imbedded as all of you probably know in this room in  
7 jargon and it gets very technical very quick. A lot of  
8 rabbit holes to be going down into. So keeping the focus  
9 on, you know, we're doing a lot of -- I won't say heroic,  
10 but a lot of extremely necessary work to keep the lights  
11 on and to plan for California's future and reconcile many  
12 conflicting interests. It's great to say we really  
13 want -- you know, it's a fantastic aspiration to say we  
14 want an entirely clean electricity system or energy  
15 system. But at the personal level, that involves making  
16 some investments and decisions. It's not just changing  
17 out your lightbulbs, but that's a good start.

18           And so I think linking up and down that chain,  
19 that decision chain, making it real for people and making  
20 it personal for people and businesses across the state,  
21 sort of understanding the implications of policy is  
22 something that communication is challenging for. And I  
23 think that's one challenge I think we have going forward.

24           But the product is there, and we have a really  
25 good basis for action here. So I'm very pleased to bring

1 the 2013 IEPR to the full Commission.

2 CHAIR WEISENMILLER: Great. Thank you.

3 Let me follow up as sort of the other participant  
4 in this. I would note I think the record for the IEPR is  
5 Geissman in the first one which had like 50 percent. I  
6 think this is my third IEPR, I might be approaching or  
7 surpass that number, but it was not in one year.

8 But it's been a pleasure to work with you on this  
9 IEPR. As you said, they're pretty intense activities,  
10 pretty time-consuming. We've got all of our schedules to  
11 just block out that number of days and to really listen to  
12 people because, you know, one of the things that makes  
13 this happen, obviously you've done a very good job of  
14 covering the staff and thank yous. And I just echo that.  
15 I won't try to supplement or whatever. But to say  
16 certainly you've hit all the right people. And, you know,  
17 we really are appreciative to stakeholder participation to  
18 come listen, participate in these is also great.

19 I think in terms of just talking a little bit  
20 about the areas more on point, first, the energy  
21 efficiency demand forecast stuff was a heavy lift, you  
22 know. I think when the Legislature called out and said we  
23 really had to get our act together, we got the three  
24 agencies. We knew it was a big lift. And we're not done  
25 yet. I think as indicated when we adopted the forecast

1 the last couple times, forecast is certainly an effort  
2 that's going to keep evolving, particularly as we deal  
3 more to segregation, as we deal more with any number of  
4 new technologies.

5           And frankly, one of the things I'm hoping as we  
6 go forward is that, you know, we have a good chance to go  
7 back and really integrate I guess some of the PUC reports  
8 that are going to be coming in more in the next year or  
9 so. Two-year cycle. Two years from now, we'll be able to  
10 do a better job of building in the evaluative performance.  
11 And frankly, we need to do a better job here looking at  
12 our building standards and supply standards in terms of  
13 compliance. And again, over time try to understand how to  
14 do better in those areas.

15           But I think in terms of again saying is it very  
16 good staff. It wasn't easy by any means. But again, I  
17 think we continued that intellectual leadership the  
18 Commissioners had since the '70s really on being  
19 state-of-the-art on demand forecasting, particularly in  
20 terms of how to integrate energy efficiency and involving  
21 technologies into that. So again, certainly great job.  
22 Not done yet. Certainly encourage everyone to participate  
23 in this process, the demand access working group to really  
24 continue those enhancements.

25           Obviously, a lot of conversation today about the

1 reliability plan. And I wanted to really talk about that.  
2 Again, it's sort of been a phenomenal process in terms of  
3 having that hearing where every chair at this dias had a  
4 different State agencies's represented. We had President  
5 Peevy, we had Mike Florio. We had Mary Nichols. We had  
6 Felicia Marcus, Andrew and I. Barry Wallerstein at South  
7 Coast. I mean, it was incredible in terms of -- just a  
8 breadth of participation.

9           Because this is one of our big challenges. I  
10 mean, obviously we have been -- as has been indicated, we  
11 needed a backup plan in case any of the plans go out for a  
12 year or more. San Onofre went out for two straight years  
13 before it's just gone. So it was really great that coming  
14 out we recommended the IEPR. ISO took our recommendation  
15 and did the studies, which became part of the ground work  
16 for where we are now in terms of the plan.

17           I think in terms of, you know, bottom line is we  
18 should adopt the 50/50 split. And let's talk about why.  
19 And what -- first, let's talk about what the plan does is  
20 the plan is a living document. We will be together again  
21 next summer to revisit these issues. And at that point,  
22 we will have in our hands the ISO transmission planning  
23 study. We'll have the results of the LTP process. We're  
24 certainly going to understand better where our thinking is  
25 on contingent planning, Water Board. At that point, it

1 will be a good opportunity for a public hearing/workshop  
2 to really see where we are, see what progress we've made,  
3 what the results, and bids. And at that point, we may  
4 well make adjustments on stuff.

5           In terms of 50/50, that's a huge lift. In terms  
6 of Commissioners in our process from the PUC, management,  
7 they see that as a real stretch goal. I mean, they are --  
8 just about everything in this package in a way is a  
9 stretch goal. But I mean, that was one where they  
10 certainly weren't prepared. That's a slam drunk. They're  
11 certainly going to try to strive to do it. But  
12 particularly to do that by targeting specific areas by  
13 trying to come up with a portfolio that fits together is a  
14 huge challenge.

15           And obviously, we're talking about contingency  
16 plans in back of that. But it's not just for the  
17 preferred. An aspect of this is transmission. And anyone  
18 who thinks you can build a transmission line in  
19 California, even one that's already sort of marching  
20 through process is in a timely fashion likely to be full  
21 of surprises as we go forward. But Sycamore is really  
22 important. Whether it's going to be on time, I don't  
23 know. I mean, certainly if we could build other lines to  
24 better integrate the L.A. basin and San Diego, that also  
25 helps a lot. But I mean, you can't even build a 20 mile

1 transmission line in California in less in eight years.  
2 To build a high voltage DC line through Orange County at  
3 anything less than glacial pace. And we have been very  
4 lucky with climate the last two years.

5           There's no -- but we are basically a hostage to  
6 the weather. We have no guarantees we're not going to  
7 find that we're in back in the 2006, one and 20 type of  
8 summer. It's dry. It's very, very dry out there. Every  
9 day a report from OES saying high fire hazard throughout  
10 the state. So in terms of transmission lines.

11           The other thing that's now public due to the FBI  
12 and the National Security article, we've had the first  
13 terrorism incident in California going after our critical  
14 infrastructure. So how do we deal with that? How do we  
15 deal with the uncertainties?

16           So certainly I think all of our hearts are in the  
17 preferred resources. Certainly, we spent a lot of time on  
18 demand response. I was just shocked when we got into the  
19 SONGs stuff initially and it was like, you know, we want a  
20 portfolio of different time responses. But when the  
21 question to SDG&E was how much response could you give us  
22 in a half hour? And it was like, well, in 16 hours we can  
23 respond. In 24 hours where most of the response is.  
24 Obviously for some of these heat wave things, that's  
25 probably good enough. But if we lose a transmission line

1 or lose a power plant, 24 hours is not good particularly  
2 if it's at night. What happens at that Sunday night if  
3 you lose a critical infrastructure? That's why we need  
4 that capacity as we're going forward.

5           And this is a big shift from even the Board PUC  
6 decision prior of saying 1200 gas and 800 of preferred.  
7 So again it's a huge step. We're waiting to see what the  
8 results are. But we really have to be responsible to our  
9 citizens and basically make sure the lights stay on going  
10 forward.

11           Now, we've talked about a couple things, one of  
12 them was greenhouse gas emissions. And again, I'm very  
13 fashion at on greenhouse gas emissions. I would point out  
14 that if you look at the trajectory that was the last  
15 implementation plan was adopted, we're within that  
16 trajectory, even with the displacement of SONGS. And I  
17 understand from the staff about 40 percent of the  
18 additional greenhouse gas emissions last year was  
19 associated with the dry year. So again, it's another dry  
20 year.

21           But the bottom line is as we go forward towards  
22 our goals, there's going to be ups and downs. But we know  
23 where -- we do have a coherent vision on where we're  
24 going. And we will get there on greenhouse gas goals.  
25 That's part of the story is that's why cap and trade is

1 there. That's why we're doing the update of the Scoping  
2 Plan, frankly, is to look at 2030 target. Set it. And  
3 then move forward.

4           Again, I think we made great progress. Anyone  
5 who thinks it's easy to move the agencies together I would  
6 assure you it's not. The demand forecast was hard to pull  
7 off. Certainly moving in this direction.

8           And I guess I wanted to remind everyone, we have  
9 tried to be fairly clear to say this is a plan that fits  
10 together, although it will go into the various regulatory  
11 proceedings, you know, at the ISO, at the PUC, at the  
12 Energy Commission. And based upon the evidentiary records  
13 in those proceedings, people will make their decisions.

14           I mean, that's certainly where we're going. But  
15 I mean, again when you look at the study and an under sea  
16 cable would be interesting, ISO is going through that  
17 process right now to see what other transmission options,  
18 if any, we can pursue down there. Certainly Edison is  
19 going through the all source bids to see what they can put  
20 together. So we're going to have a lot more information  
21 next summer. But certainly at this point we want to stay  
22 the course.

23           Going back to the nuclear option for second,  
24 that's again -- Joan did a great job in terms of really  
25 flagged the important issues we said we were going to flag

1 in the scoping order in terms of what to do in terms of  
2 the spent fuel moving, the dry cast. At this point,  
3 obviously timely decommissioning of San Onofre is  
4 critical. You know, I think certainly I was shocked the  
5 NRC held an officer training where they said yeah, they  
6 have 60 years to -- everyone has 60 years to decommission  
7 the plants. We want that shorter. Certainly the Marines  
8 want it shorter.

9 In terms of Ben's basic question on the ISOs,  
10 these documents are big enough that we don't always repeat  
11 what we did the last year in it in the conversation. The  
12 power of saying that, the ISO study, if you look at pages  
13 118 to 120, there is a reference back to the ISO study on  
14 the -- without the nuclear plants operating. But again,  
15 we certainly did not highlight in this. We certainly  
16 didn't do a cost benefit analysis of nuclear. We really  
17 focused on trying to deal with some of the impacts on our  
18 citizens for land use types of decision. We certainly  
19 respect the NRC's role in terms of regulating safety and  
20 the nuclear elements. But certainly we are pursuing the  
21 State role in terms of what this means to our people.

22 And I also would note and thank Commissioner  
23 Florio and his staff really the nuclear chapters is a team  
24 effort. Mike was involved in that. Certainly has been  
25 involved in sort of that particular chapter. The

1 recommendations reflect the position of both agencies, for  
2 at least the lead Commissioner, myself on nuclear here and  
3 they reflect Commissioner Florio, who is on point on San  
4 Onofre. And I think that maybe did decommissioning.

5 So anyway, complicated issues. I mean in terms  
6 of Michelle's request about next time, we've done nuclear  
7 three years in a row. Obviously, San Onofre going out  
8 really moved it up the list. The next IEPR will really be  
9 directed by Janea Scott. We expect it to be much more  
10 transportation focused, which is great.

11 And I think on some of these topics it's good to  
12 take a break and move forward. But certainly we will go  
13 through the process of coming up with a scope for the next  
14 IEPR. And we will -- everyone has the opportunity to  
15 participate in that and appreciate comments.

16 I think last I would just say climate change and  
17 again that is -- if you look at our key issues, it's the  
18 economy and climate change and trying to find ways to have  
19 a sustainable reliable power system that provides, you  
20 know, allows the California economy to thrive and grow and  
21 provide jobs the our citizens.

22 So anyway, certainly there is more to do in this  
23 IEPR. We had a pretty ambitious scope, particularly in  
24 the energy efficiency side. We didn't accomplish  
25 everything we wanted to. But we will keep working on

1 those in various forms. So with that other Commissioners?

2 COMMISSIONER SCOTT: Well, as the current rookie  
3 on the team, I do look forward in the same way that  
4 Commissioner McAllister did to really digging into the  
5 IEPR. And I wanted to echo your sense that the IEPR is  
6 incredibly neat. And maybe that's just because all of us  
7 are a bunch of energy wonks here. But I really do think  
8 it's incredibly neat because it presents this Commission  
9 with an extraordinary opportunity to explore cutting edge  
10 and highly relevant energy issues.

11 We've got the ability to convene experts from all  
12 around the state, the country, and even the world to give  
13 us their very best thoughts. And from -- I also find the  
14 IEPR to be noteworthy from the public member perspective.  
15 And I just wanted to spend a minute focusing on that, the  
16 ability for anyone who's interested in what we're doing to  
17 review and comment on the draft, the public engagement  
18 that we have at all stages, the discussions that take  
19 place throughout the year as you highlighted in your  
20 comments as well, the sheer number of workshops. And  
21 anyone who is interested in this can come and they can  
22 listen and learn. They can weigh in. They can be heard.  
23 I think it's a pretty cool process for the public to be  
24 engaged in an energy policy in that way.

25 And last I just wanted to say thank you to you,

1 Commissioner McAllister, and to you, Commissioner  
2 Weisenmiller, for your leadership and your vision on this  
3 IEPR. Your dedication and thoughtfulness just shined  
4 through I think. And also to the staff for such a great  
5 job in implementing it and getting the IEPR across the  
6 finish line. I think it's a great report and I look  
7 forward to supporting it.

8 COMMISSIONER DOUGLAS: I don't have much to add  
9 to that, really what anyone has said. I want to also join  
10 my colleagues in thanking Commissioner McAllister and the  
11 Chair for taking this on. Commissioner McAllister, it was  
12 a Herculean effort on top of other Herculean efforts. So  
13 thank you for that.

14 I appreciate the Chair's comment also that like  
15 many other things that we do, but particularly in the case  
16 of the IEPR, which really tries to address the policy  
17 issues of the day with the information available to us and  
18 with the understanding that information gets better and  
19 analyses, you know, that there's always another analysis  
20 coming. There's always -- you know, if you wait four  
21 months, you might learn something new. And that's really  
22 always the case. So these are living documents. And we  
23 seek to improve our understanding in part through analysis  
24 and in part through public dialog. I think the document  
25 does a good job of reflecting that effort, and, of course,

1 as we move forward on really all of the issues that we  
2 cover in this IEPR.

3           Of course, none of it is the last word. It's a  
4 very good synopsis though of a very thorough process and  
5 reflection of where we are today. In that sense, it's  
6 extremely valuable. So thank you again for your work. I  
7 also look forward to supporting it.

8           COMMISSIONER HOCHSCHILD: Great. I also just  
9 wanted to again thank Commissioner McAllister. Herculean  
10 is the right word. In addition to being the lead  
11 Commissioner on the IEPR, Commissioner McAllister also led  
12 all the Prop. 39 guideline work creation this year and  
13 Title 20 and Title 24 and AB 758 and God knows what's  
14 else. It's been an incredible year. And after you made  
15 all those reforms, you kicked it to me.

16           And I also just wanted to thank again Susan  
17 Korosic for getting this started. I have now the benefit  
18 of her talents as she has come to work with me leading the  
19 renewable division, and Heather Raitt as well.

20           As the Commissioner appointed by the Governor to  
21 the environmental seat though, I do want to get into a few  
22 issues. I'm very finally attuned to the opposition. This  
23 received very considerable opposition throughout the state  
24 from the environmental community.

25           I guess this is our first opportunity as fellow

1 Commissioners to talk about the SONGS issue. In some  
2 ways, the IEPR is a proxy for the SONGS discussion. And I  
3 guess, Mr. Chair, this really is a question for you  
4 because you were leading the interagency work. A few  
5 questions.

6 I guess one is why the need now to sort of  
7 declaratively say 50/50 when there is this process already  
8 in place at the PUC through the long-term procurement  
9 proceeding where those kind of things would normally be  
10 taken would be first. And then did the discussions with  
11 the other agencies that you talked about sequencing in  
12 what order, you know, doing preferred resources first, or  
13 does it all have to be done, you know, simultaneously.

14 Finally, just what conversations -- because the  
15 State's spent a lot of time developing the loading order  
16 obviously. How did how did the process deal with  
17 complying with the loading order specific? Those are the  
18 questions that come to mind.

19 CHAIR WEISENMILLER: They're good questions. I  
20 mean, actually one of the interesting things today is the  
21 comment about utilities all cost effective conservation.  
22 Those words were first spoken by the late great Lennie  
23 Watts in 1977. So we've had a vision. In a way, we're  
24 not arguing potential. What we're looking for are  
25 megawatts, not mega-awards. So certainly we have -- as I

1 said, we have really upped the game from the last LTP  
2 decision. But one of the issues we're really facing is  
3 timing. A lot of the conventional generation --  
4 transmission is very, very long to get, right. Let's face  
5 it. As I said, the Governor had hoped for three or four  
6 years on permitting. Eight to ten if you're talking about  
7 controversial routes and undersea cable. These are  
8 controversial routes. Again, it's very tough to do that.

9           Conventional generation is not fast either. You  
10 know, we can go through the spectrum. But again, unless  
11 we start pursuing those now, my fear is we get to that  
12 period in, say, 2020 or 2018 where suddenly there is  
13 this -- we're going to put a bunch of 49 megawatt peakers  
14 as we did after the heatstorm because -- and we're going  
15 to size them so they don't come before the Energy  
16 Commission. And we're going to size them so they go to  
17 the ISO queue. We're going to roll them out or do  
18 something stupid, like oil barges, you know, or the  
19 proverbial we'll run the backup generators in the casinos  
20 because they're not covered by our tight air regs.

21           So when you start thinking about timing, you  
22 know, that's when you get to the point of saying we made  
23 an historic commitment to 50/50. I mean, that's really  
24 more than certainly anyone has ever articulated. At the  
25 same time said we need contingent plans for everything.

1 When you start looking at the time line and one of the  
2 reasons we put in the contingency permitting part was so  
3 we would have more time for the preferred resources to  
4 develop or to get there. So we're certainly all rooting  
5 for the preferred resources to get there, but we also have  
6 to be prudent. And the prudence is to at least start  
7 looking at expanding that commitment to conventional gas.

8           And certainly, again, the gas resources, we hear  
9 a lot about the air impacts and the carbon impacts. Now  
10 when I was at the El Segundo dedication, Barry Wallerstein  
11 said they are striving to come up with ways of measuring  
12 the NOx emissions from that plant. That's beyond current  
13 the technology to measure the emissions. So they're very  
14 clean. Certainly, air in Southern California is very  
15 challenged on the inner side. Unfortunately, a lot of  
16 that is the mobile sources. A lot of that if you live  
17 near a freeway or live near a refinery, that's where you  
18 see a lot of the health impacts. I would encourage people  
19 environmental groups to be more active -- NRDC already  
20 is -- but to be more active in the 118 investment plan  
21 process. Because, again, if we could effect  
22 transportation and -- don't effect the refineries, at  
23 least not directly. I mean, that's one way to really  
24 start dealing with the air quality. But certainly Barry  
25 Wallerstein and Mary Nichols are very passionate on the

1 air quality. And we're certainly part of the group  
2 looking at it.

3           What I'm saying is we really need to start  
4 moving. It may be that as we go forward the gas plants  
5 don't operate that much. That's not -- a lot of the  
6 existing plants were thought they're going to operate at  
7 80. They're now operating at 45. But having that sort of  
8 spare tire for contingencies, we felt it was really  
9 critical. And given the long lead time, we felt it was  
10 important to start moving forward at this stage. But  
11 again, it's a living document.

12           It's sort of ironic in a sense because when the  
13 loading order was originally proposed among the agencies  
14 coming out of the energy principals group, two of the PUC  
15 Commissioners didn't vote for it because they said it did  
16 not come out of their processes and did not have a full  
17 evidentiary record. Certainly in this sense it's putting  
18 out -- because one of our real difficulties, frankly, it's  
19 huge, is that we really need all the agencies to work  
20 together in the right sequence to really make things  
21 happen. And so that's where you need that sort of vision.  
22 And you need to plan so that somehow when the PUC, Energy  
23 Commission, ISO, Air Board, we're going to be very lucky  
24 if we get these things to fall in place when we need them.  
25 So you need that sort of vision and at the same time or at

1 least draft plan. And at the same time, we need to focus  
2 on implementation and execution, but it's going to be a --  
3 this thing is going to be revisited every year I'm sure  
4 for the next X years until we can finally say this is  
5 behind this.

6 COMMISSIONER HOCHSCHILD: I would just say I  
7 think all of us share the same twin goals of keeping the  
8 lights on and ensuring reliability. Can you share more  
9 how you see the next step of the public process engagement  
10 where you mentioned this summer there is going to be a --

11 CHAIR WEISENMILLER: Last summer, we had a  
12 workshop in Los Angeles where we -- it's not just Energy  
13 Commission. Actually, that was Energy Commission and PUC  
14 sponsored, but Mary Nichols came to that one. Steve  
15 Berberich was there. And actually we had a prior one down  
16 in Los Angeles a prior IEPR, again just from the SONGS  
17 smoke was starting to come out.

18 So we had an event here I think in September  
19 15th, but anyway, where again we had all the agencies. We  
20 had staff presentations. People had a chance to comment  
21 on those. And I would anticipate again this current IEPR  
22 is not even the -- this one is not adopted, much less the  
23 next one set up. But one of the things I'm going to ask  
24 Jenea to indulge me in is to have that sort of workshop  
25 again to get the progress reports from various agencies so

1 we can march forward. And certainly that would be a  
2 public process.

3           Again, we've tended to try to do those in Los  
4 Angeles. And again, I'm not going to -- at this point, it  
5 would be premature to say this is where it's going to be  
6 in the timing and everything else. But I think next  
7 summer it would be something again in that area.

8           COMMISSIONER HOCHSCHILD: Thank you.

9           COMMISSIONER MC ALLISTER: I wanted to just  
10 highlight some of the -- there is interplay between the  
11 forecast, which has to be rigorous, has to be pretty  
12 rigorous. So it's based on data that has to be well  
13 vetted. You know, this year at the end of the -- towards  
14 the end of the process, we had some issues with Edison  
15 territory. There's quite a bit of back and forth about  
16 that.

17           But you know, the other day, several people have  
18 brought up Edison itself and several of the commentators  
19 brought up the formerly known as living pilots, now I  
20 think prefer to be source pilots. Hope that doesn't mean  
21 they're wilted. But you know, those have to produce  
22 results. I think we're all really at the edge of our  
23 seats to make sure to see that they achieve results. If  
24 they do, it's going to bode really well for being able to  
25 do more preferred resources and you know really figuring

1 out the key to unlocking the various sectors of demand  
2 side and other preferred resources.

3 I personally am incredibly interested in that. I  
4 don't think we should all go into a hole and wait  
5 six months and see if Edison comes up with the goods. I  
6 think we need to pay attention and make sure everybody  
7 knows we're paying attention. I think that future is  
8 unknown. But I think we are all dependant on its success  
9 in that case in the Southern California region.

10 But you know, none of us have a crystal ball to  
11 see, okay, well, what's the percentage split, you know.  
12 And we could certainly adopt an aspiration goal. But I  
13 think we've done that particularly in the energy  
14 efficiency realm, we have aspirational goals we're not  
15 meeting because it turns out the rubber on the road is  
16 hard to make move. So I think we're -- that's why I think  
17 we need a more granular detailed and kind of dive into  
18 these issues to make sure that the policy prescriptions  
19 that we adopt actually are going to be the work in the  
20 ground and interact with the marketplace in ways they're  
21 going to work. So I think, yeah, we're all basically on  
22 the same page, but we just need to push. We need to learn  
23 how to push most effectively going forward.

24 Okay. I will then move the Resolution for Item  
25 4, including the changes identified in today's business

1 meeting. I think there was just the one, and the errata.  
2 So Item 4.

3 CHAIR WEISENMILLER: I'll second.

4 All those in favor?

5 (Ayes)

6 CHAIR WEISENMILLER: Item passes, five to zero.  
7 Thank you all for your participation today and get ready  
8 for the next IEPR.

9 We'll go off the record for about a minute while  
10 we confer on people's schedules.

11 (Off record)

12 CHAIR WEISENMILLER: We're going to take a  
13 ten-minute break and come back and go through the rest of  
14 the agenda.

15 (Off record)

16 CHAIR WEISENMILLER: Let's go on to Item 5,  
17 possible adoption of OII proceeding. Heather Raitt.

18 MS. RAITT: So as Commissioner McAllister  
19 mentioned, the IEPR training continues. So staff is  
20 asking for the Commission's approval of an order  
21 instituting informational proceeding to gather and assess  
22 information needed for preparing the 2014 and 2014 IEPR  
23 update and the 2015 IEPR.

24 The Commission is required and the Public  
25 Resources Code 25302 to prepare an IEPR every two years

1 with an update in the intervening years that assesses  
2 California's electricity and natural gas and  
3 transportation fuel sectors.

4           The IEPR team is working with Commissioner Scott,  
5 who is the lead Commissioner for the 2014 update, to  
6 develop a scoping order for identifying the topics for the  
7 2014 report. When that scoping order is released in  
8 probably the late January or early February, there will be  
9 an opportunity for public comment at that time on the  
10 scope of the report. The adoption of this order will  
11 ensure that the lead Commissioner can collect information  
12 related to the topics that will be addressed in the 2014  
13 IEPR update and the 2015 IEPR. That's all.

14           COMMISSIONER MC ALLISTER: It's my great pleasure  
15 to move Item 5.

16           COMMISSIONER SCOTT: I'll second.

17           CHAIR WEISENMILLER: All those in favor?

18           (Ayes)

19           CHAIR WEISENMILLER: This Resolution passes five  
20 to zero. Congratulations.

21           Let's go on the Item 6. Analyzing British  
22 Columbia Run-Of-River Facilities. Brian McCollough,  
23 please.

24           MR. MC COLLOUGH: Good day, Chair Weisenmiller  
25 and Commissioners. I'm Brian McCollough with the

1 Renewable Energy Division.

2 Under the guidance of Commissioner lead  
3 Commissioner for renewable, I'm presenting the lead  
4 Commissioners draft report analyzing British Columbia  
5 Run-of-River facilities for the California renewables  
6 portfolio standard.

7 This report contains the results of a  
8 legislatively-mandated study regarding run-of-river  
9 hydroelectric facilities in British Columbia and the  
10 renewables portfolio standard, RPS.

11 The California Renewable Energy Resources Act,  
12 otherwise known as SB 1X2, raised the State's RPS goal to  
13 33 percent by 2020 and directed the Energy Commission to  
14 study and after a public workshop and opportunity for  
15 public comment to provide a report to the Legislature that  
16 analyzes run-of-river hydroelectric generating facilities  
17 at British Columbia and whether these facilities are or  
18 should be included as eligible for California's RPS.

19 The term run-of-river does not have any statutory  
20 meaning in relationship to California's RPS requirements.  
21 And hydroelectric projects characterized as run-of-river  
22 would be evaluated by the same standards applied to all  
23 other hydroelectric projects.

24 Run-of-river projects are often depicted as  
25 having low environmental impacts, as the term run-of-river

1 implies no impalement of the flow of river takes place in  
2 contrast to the obvious changes brought by a typical damn  
3 and reservoir system. However, in British Columbia,  
4 run-of-river projects are allowed to impound the flow of  
5 the river for up to 48 hours and may divert up to 95  
6 percent of the river's flow from the original bed.

7 Existing statutes and the RPS eligibility  
8 guidebook specify that in order to be eligible for  
9 California's RPS, a hydroelectric facility must have a  
10 nameplate capacity of 30 megawatts or less and either have  
11 been under contract to or owned by California retail  
12 seller or local POU as of December 31st, 2005, or be a new  
13 or repowered facility that has commenced commercial  
14 operations after January 1st, 2006. And that meets strict  
15 requirements. These RPS eligibility requirements state  
16 that a new hydroelectric facility cannot cause an adverse  
17 impact on in-stream beneficial uses or cause a change in  
18 the volume or timing of stream flow.

19 In addition to these eligibility restrictions  
20 specific to hydroelectric projects, facilities located  
21 outside of the United States seeking eligibility for  
22 California's RPS must show it was developed and operated  
23 in a manner that is as protective of the environment as a  
24 similar facility in California.

25 The environmental review process in British

1 Columbia does have areas such as consultation with first  
2 nations and Native Americans where British Columbia's  
3 process is equal to or perhaps even more rigorous than  
4 California's. But there are also several areas where  
5 British Columbia requires fewer environmental protections.  
6 For example, British Columbia does not have a provincial  
7 endangered species law.

8           Staff believes that since California's existing  
9 statutes provide a very narrow path for these  
10 hydroelectric resources to be RPS eligible, it would be  
11 overreaching our authority to conclude that no  
12 hydroresources can meet RPS requirements. However,  
13 existing statutory restrictions on the RPS eligibility of  
14 small hydroelectric projects combined with the  
15 restrictions on facilities located outside the  
16 United States make it extremely unlikely that  
17 hydroelectric projects located in British Columbia could  
18 qualify to become California's renewable portfolio  
19 standard.

20           In accordance with the statutory direction, staff  
21 and the technical support contractor, Aspen Environmental,  
22 held two workshops and published a consultants draft and  
23 staff draft report. Comments during workshops in addition  
24 to the twelve sets of written comments on draft reports  
25 were evaluated and used to refine the draft report before

1 you today.

2           Public input from clean energy stakeholders,  
3 environmentalists, concerned citizens combined with  
4 additional research outreach consultation and interviews  
5 with Canadian entities and environmental organizations  
6 also in form the development of this report.

7           The lead Commissioner draft does contain in  
8 Appendix A the consultant's reports which includes, as  
9 required by statute, an analysis of the effects of  
10 inclusion of run-of-river hydroelectric resources in the  
11 RPS would have on a suite of environmental considerations,  
12 including emissions of greenhouse gases, air pollutants,  
13 water quality, recreation, and fisheries.

14           The analysis of the effects of inclusion in the  
15 RPS of these hydroelectric resources on these  
16 environmental areas does not show a clear environmental  
17 benefit that would justify a change to California's  
18 existing statutes. The lead Commissioner's draft before  
19 you for acceptance does not recommend a change to  
20 California's existing statutes.

21           We offer this report to the Commission for  
22 consideration, and I'd be happy to answer any questions.

23           CHAIR WEISENMILLER: Thank you. I have some  
24 public comment. Let's start with Keith from the  
25 California Hydropower Reform Coalition.

1           MR. NAKATANI: Good afternoon. Keith Nakatani,  
2 California Hydropower Reform Coalition.

3           My Steering Committee members include and I  
4 represent organizations like Friends of the River,  
5 American Rivers, California Trout, Trout Unlimited,  
6 American White Water and others. We're a statewide  
7 coalition whose mission is to protect and restore rivers  
8 that are impacted by hydropower.

9           Before commenting on the lead Commissioner's  
10 report, I'd just like to take a few moments just to  
11 describe a little bit of the back story, because I think  
12 it's helpful in understanding this issue.

13           Part of this back story is that in addition to  
14 the points that you'll hear in a second how British  
15 Columbia weakened already weak environmental protection  
16 laws to facilitate the development and the hope for export  
17 of hydro to California and how BC also changed their laws  
18 to make only private developers able to develop power  
19 projects instead of BC Hydro, their crown corporation.  
20 And then when the export plan failed, how rate payers were  
21 forced to pay exorbitant rates to make up the difference.  
22 The good news is that California is not going along with  
23 those designs.

24           Regarding the BC report, I have three overall  
25 points. The first and the most important point is that

1 the CEC got it right in the lead Commissioner's report  
2 with its conclusions that hydro from DC is not eligible  
3 for California RPS and that California environmental laws  
4 are much stronger than BCs and also in recommending that  
5 no changes be made to the existing RPS standards.

6 The second point is that California's RPS  
7 regulations should not be changed because the purpose in  
8 doing so was to make it easier for PG&E to reach the 33  
9 percent requirement and also so that private power  
10 developers in BC could make lots of money.

11 Another reason for not changing the existing  
12 statute is, as you know, the PUC has concluded that we're  
13 on track to reach 33 percent. And another reason for not  
14 changing the regulations is that, had we done so, then  
15 there would have been irreparable harm to many rivers and  
16 watersheds in BC.

17 In essence, California would have been importing  
18 hydropower and exporting environmental impacts, which of  
19 course would have undermined our deserved reputation for  
20 environmental protection.

21 The proponents of hydro from BC will try to tell  
22 you their projects are benign. But as you just heard in  
23 the staff summary, up to 95 percent of stream flow can be  
24 and oftentimes is diverted for these projects, which is a  
25 tremendous impact. For these reasons, the Legislature

1 rejected the proposal to weaken our RPS standards. And  
2 with this report, the CEC agrees.

3           The third point I'd like to make today is that  
4 although we support the conclusions in the lead  
5 Commissioner's report, we're troubled by the consultant's  
6 report which is Appendix A because there are significant  
7 inaccuracies in the consultant's report which contradict  
8 the lead Commissioner's report. We request that these  
9 inaccuracies are corrected.

10           For example, the consultant's report says that  
11 the environmental laws in BC and California are  
12 comparable. But as the lead Commissioner report  
13 accurately says, "there are substantial differences  
14 between the levels of environmental protection required in  
15 BC and California."

16           The consultant's report inaccurately says the CEC  
17 is considering a different stream flow standard than that  
18 which is currently required. There are also other  
19 inaccuracies in the report, but I won't go into those.  
20 And again, we request that those inaccuracies be corrected  
21 so that the consultant's report is consistent with the  
22 lead Commissioner's report. Thank you.

23           CHAIR WEISENMILLER: Thank you. We have a  
24 gentleman on the phone. Actually. Excuse me. Gwen  
25 Barley.

1 MS. BARLEY: Yes. Hello. Good afternoon. My  
2 name is Gwen Barley. I'm the Policy Director with the  
3 Wilderness Committee, which is a 30,000 member  
4 environmental organization based in British Columbia. And  
5 I'm just going to take you very briefly through a short  
6 PowerPoint. I'm reiterating why run-of-river facilities  
7 in BC shouldn't be considered for the RPS standard.

8 --o0o--

9 MS. BARLEY: If you go to slide one, you'll see  
10 that projects must be developed outside of the U.S. must  
11 be developed and operated in a manner is that protective  
12 of the environment as a similar facility located in  
13 California. And furthermore, hydrofacilities are not RPS  
14 eligible in California if it will cause an adverse impact  
15 on in-stream beneficial use or cause a change in the flow,  
16 in the volume, or timing many stream follow.

17 Slide two is a typical river diversion. It's the  
18 Ashlu Project, a 49 megawatt projects, which means it  
19 falls just one megawatt below the BC biological assessment  
20 process. You can see the impact that this would have on  
21 stream flow. And as was mentioned earlier up to 95  
22 percent of the river could be diverted into a pipe, in  
23 some cases, up to 98 percent of the river.

24 If you go to slide three, this is the Upper Toba  
25 Power Project. Again, you can see the very considerable

1 impacts these projects have. They can have hundreds of  
2 kilometers of transmission lines and kilometers of pipes  
3 where the river is diverted and that can be fragmenting  
4 and impact wilderness.

5 As was mentioned earlier, British Columbia has no  
6 endangered species legislation. We have 1900 species at  
7 risk. And the environment has been cut 50 percent in the  
8 last ten years. We also had very severe cuts to the  
9 Fisheries Act and Canada Environmental Assessment Act in  
10 2012.

11 --o0o--

12 MS. BARLEY: So slide four shows the 1,140  
13 percent increase in water power licenses applications in  
14 British Columbia. And that was in anticipation of being  
15 able to sell power to California. And then the final  
16 slide is --

17 --o0o--

18 MS. BARLEY: An article from the Vancouver Sun,  
19 which is British Columbia's daily newspaper. It says,  
20 "BC's run-of-river sector in regulatory disarray, document  
21 suggests." And that was from a freedom of information  
22 request that the Wilderness Committee got that showed  
23 there was 749 instances of non-compliance at 16 operating  
24 river diversion projects in 2010 alone. So we've had a  
25 very serious issue with low, low environmental standards,

1 a lack of compliance, and not having enough staff on the  
2 ground to ensure compliance. Thank you.

3 CHAIR WEISENMILLER: Thank you. I think we've  
4 done with public comment. Let's turn to the  
5 Commissioners.

6 COMMISSIONER HOCHSCHILD: Thank you.

7 Let me thank our staff Brian McCollough for  
8 completing this report. I'm basically happy where it  
9 landed. And this is actually kind of a cap stone on a  
10 very productive year from the renewables team. We got the  
11 verification report, and the new solar homes program  
12 revisions done and the station power workshop and many  
13 others. So this is a nice way to wrap it up.

14 I particularly wanted to express my gratitude to  
15 Mr. Nakatani for the very informative briefing about a  
16 month ago with your colleagues. And I hear your comment  
17 today. However, I'm actually comfortable with where this  
18 is and would like to move the item as it is. I moved the  
19 item.

20 COMMISSIONER DOUGLAS: Second.

21 CHAIR WEISENMILLER: All those in favor?

22 (Ayes)

23 CHAIR WEISENMILLER: This resolution passes  
24 unanimously five to zero.

25 Let's go on to Item 7.

1 MR. NUFFER: Good afternoon, Mr. Chair,  
2 Commissioners. My name is John Nuffer. With me is Peter  
3 Strait from the Appliance Energy Efficiency Program.

4 We're here today to seek your approval for an  
5 agreement with the Benningfield Group in the amount of  
6 \$259,000 for them to conduct an appliance market survey of  
7 20 different appliance types that are regulated by  
8 California's appliance efficiency regulation.

9 The purpose of this survey is to assess -- to  
10 help us assess compliance with those appliance efficiency  
11 standards. The agreement will last about a year and a  
12 half. The consultant, the contractor will look into  
13 cataloguing internet sales, retailers, and wholesalers  
14 throughout the state.

15 The Benningfield Group was the lowest qualified  
16 bidder of the three bidders. And with your approval, this  
17 would be the fourth such market survey. And given our  
18 potential -- our potential new enforcement program taking  
19 effect, which may take effect at the end of this year or  
20 early next, this kind of information derived from this  
21 survey will be very helpful.

22 So with that, Peter and I can answer any  
23 questions you might have.

24 CHAIR WEISENMILLER: Great. Thank you.  
25 Commissioners, questions or comments?

1           COMMISSIONER SCOTT: You said the lowest  
2 qualified?

3           MR. NUFFER: Lowest cost.

4           COMMISSIONER SCOTT: Oh, got it. I wanted to  
5 clarify.

6           COMMISSIONER MC ALLISTER: I just want to say  
7 thanks. I guess certainly your context of SB 454 is well  
8 taken. And compliance comes up as an important issue on a  
9 number of fronts, definitely appliances and building  
10 standards. We know to know more about the levels of  
11 compliance, what's the base line, what's actually going  
12 on. And this study will help us determine that. And then  
13 also just understand the marketplace better and identify  
14 who the actors are with more specificity and make the  
15 procurement decisions and allow us to educate the  
16 marketplace going forward. It's not always a willful lack  
17 of compliance. Sometimes it's just lack of knowledge.  
18 Part of our responsibility is to make sure that when  
19 regulations come down, all the right people know about  
20 them so they can in good faith comply. It's a  
21 multi-faceted endeavor. And this is really creating a  
22 foundation for us to do our jobs better each tim we can.  
23 So I'm very supportive of this effort and contract.

24           COMMISSIONER HOCHSCHILD: Commissioner  
25 McAllister, could I ask a question? I'm not sure who

1 might know the answer. Maybe nobody knows. But I'm just  
2 curious. Of the 27 appliances that are regulated under  
3 Title 20, of all the energy that's consumed by appliances  
4 in the state, what fraction does this 27 represent? Is  
5 this a majority of --

6 MR. NUFFER: I can't answer that question.

7 COMMISSIONER HOCHSCHILD: Or just even a  
8 ballpark.

9 MR. STRAIT: The 27 appliances in question isn't  
10 the full of portfolio of appliances regulated by the  
11 California Energy Commission through our appliance  
12 efficiency regulations. The appliance efficiency  
13 regulations cover nearly all of the end point uses in  
14 total.

15 So I say over the regulations, probably at least  
16 80 percent of all power consumed is consumed by appliances  
17 covered somewhere in those regulations. I don't have a  
18 list of the 27 we are focusing on this survey here.

19 But what we do with these surveys is try to  
20 alternate which appliances we look at so that if you look  
21 at something in our previous report we'll choose a  
22 different set for the next report and revisit those  
23 appliances again in the following report. So in the  
24 context of this being the fourth we conducted, this is  
25 just one step in maintaining observations of the

1 California marketplace and ultimately looking at all of  
2 the appliances.

3 COMMISSIONER HOCHSCHILD: Sorry. I misunderstood  
4 the 27. What is the actual total number of appliances?

5 MR. STRAIT: Roughly 60.

6 COMMISSIONER MC ALLISTER: Some of those are  
7 going to be federal regulations that we've adopted as  
8 California regulations and some of them will be specific  
9 to California because federal regulations doesn't exist  
10 and we can do that.

11 So, but overall, I mean in the residential  
12 sector, I would say, I mean, just standby load there's  
13 somewhere between maybe six and twelve percent of  
14 electricity consumption in residential sector is standby  
15 load. The appliances would be probably three or four  
16 times that overall. You're talking about a third of  
17 energy consumption is end use of some sort along those  
18 lines.

19 MR. STRAIT: These 27 in particular are focused  
20 on the California regulated appliances, those appliances  
21 are not also subject to federal regulation.

22 COMMISSIONER MC ALLISTER: Any other comments on  
23 the dias? So I will move Item 7.

24 COMMISSIONER DOUGLAS: Second.

25 CHAIR WEISENMILLER: All those in favor?

1 (Ayes)

2 CHAIR WEISENMILLER: The Resolution for Item 7  
3 passes five to zero.

4 Let's go on to Item 8. Thank you. This is the  
5 Regents of University of California Irvine. This is  
6 \$100,000. This is pure natural gas funding. And Marla  
7 Mueller.

8 MS. MUELLER: Good afternoon.

9 CHAIR WEISENMILLER: Hold on one second.

10 COMMISSIONER MC ALLISTER: I wanted to jump in  
11 here. I missed my cue by a couple seconds.

12 So I wanted to disclose that my wife is a  
13 professor at King Hall, the law school at U.C. Davis. So  
14 by virtue of the fact she has some income from the U.C.  
15 system, I wanted to disclose. I'm not conflicted out of  
16 this particular vote, so I will stay in.

17 COMMISSIONER DOUGLAS: I will also disclose I'm  
18 teaching a law class at King Hall, U.C. Davis. This is a  
19 disclosure. There is -- I'm not recusing myself. I'm  
20 participate in this action. But we have the first class  
21 on Monday.

22 CHAIR WEISENMILLER: Go ahead.

23 MS. MUELLER: Good afternoon. I'm Marla Mueller  
24 from the Research Division.

25 I'm here asking for approval of this contract

1 with U.C. Irvine. As the spectrum of biofuels available  
2 in California widens, it is important to understand the  
3 impacts of these fuels will have on these existing  
4 combustion equipment within the state.

5 Benefits of the biofuels will be offset if these  
6 fuels result in reduced combustion system efficiency,  
7 increased maintenance costs, or degraded air quality.  
8 This proposed project builds on three earlier projects.

9 In the gas fuel energy criteria project Phase I,  
10 U.C. Irvine in collaboration with the University of  
11 Washington and Georgia Tech developed simulation  
12 methodology that are able to predict transit emission as a  
13 function of fuel composition and predict fuel stability.  
14 This was demonstrated on a few burners.

15 The simulation methodology appears promising.  
16 However, the ability to correctly predict behavior in  
17 burners in general has not been fully evaluated. Modeling  
18 results need to be evaluated against actual burner test  
19 results.

20 More work is needed to explore how modifying the  
21 burner configuration might help reduce emissions of  
22 nitrogen oxides and additional consideration of other  
23 fuels and burner configuration is needed such that a  
24 broader spectrum of biofuels and current and improving  
25 combustion systems can be encompassed by this work. Use

1 of this work to validate the U.C. methodology was  
2 identified when the Phase I project was approved.

3           The purpose of the proposed project is to further  
4 test and verify that U.C. Irvine simulation methodology  
5 and to estimate the impact of fuel composition on air  
6 pollutant emissions from and stability of combustion  
7 systems with a focus on biogas resources. In this  
8 project, if approved, the methodology will be first will  
9 first be applied to burners that have been tested in the  
10 laboratory for in-field studies on a variety of fuels.  
11 This part of the project will use results from the  
12 previous research, such as the peer funded project done by  
13 Gas Technology Institute and Lawrence Berkeley National  
14 Lab looking at the implications of using high heating  
15 value gases and combustion systems.

16           The modeling methodology will be modified as  
17 needed based on these tests and then applied to selected  
18 burner configurations to provide detailed information  
19 regarding how fuel combustion impacts, air pollutant  
20 emissions, and combustion systems stability. Additional  
21 simulations will be run to evaluate biofuels in a broader  
22 range of burners.

23           The Advisory Committee from Phase I will continue  
24 to provide guidance for this phase of the project. The  
25 Committee includes Air Resources Board, Air Districts, gas

1 utility, and OEM staff and combustion experts.

2 Further testing and validation of the simulation  
3 methodology will lead to an estimation in terms of trends  
4 of the overall impact of fuel composition on emissions of  
5 nitrogen oxides, carbon monoxide, and volatile organic  
6 compounds on operability and on safety from the use of  
7 biogas.

8 The results from this project in conjunction with  
9 the inventory of burners within the state can be used to  
10 estimate how adoption of biofuels will impact emissions.  
11 The resulting data can be used to inform policy makers on  
12 the air quality and safety implications of biogas. They  
13 can also provide insights into needed improvements in  
14 burner configuration. Thank you.

15 CHAIR WEISENMILLER: Thank you.

16 Commissioner, any questions or comments?

17 Just following up on the last question. U.C.  
18 Irvine is aware there is a lot of research on plug loads  
19 on the appliance area. If you -- (inaudible) if you want  
20 to get with them.

21 COMMISSIONER MC ALLISTER: I'll move Item 8.

22 COMMISSIONER SCOTT: Second.

23 COMMISSIONER HOCHSCHILD: Second.

24 CHAIR WEISENMILLER: All those in favor of this  
25 Resolution?

1 (Ayes)

2 CHAIR WEISENMILLER: This resolution passes five  
3 to zero.

4 Let's go to Item 9, Kenneth B. Medlock III. This  
5 is an agreement \$100,000, and this is ERPA funding.  
6 Linda.

7 MS. SPIEGEL: Good afternoon. Linda Spiegel.

8 This is a request. It's for a two-year contract  
9 for \$100,000 with Dr. Medlock, who is with the University  
10 Baker Institute. Dr. Medlock is the architect of the  
11 model the natural gas model that's called North America  
12 market gas trade model that staff uses to do its  
13 assessments to determine future natural gas prices,  
14 supply, and demand in the generation sector. These  
15 assessments are done biannually to support the IEPR.

16 And the purpose of this particular contract is to  
17 allow Dr. Medlock to make some structural changes and  
18 improvements to the model and to provide training. The  
19 structural changes would be, for example, to allow it to  
20 do monthly assessments in addition to the annual ones it  
21 does now. And this will allow staff to be more responsive  
22 to periodic seasonal events, like right now we have a very  
23 dry year and the implications for increased demand for  
24 natural gas-fired units in absence of hydro.

25 They'll also be training so we can continue our

1 work to have staff become more proficient in running this  
2 model in house and provide the expertise we need to move  
3 forward in the next assessment.

4 COMMISSIONER MC ALLISTER: I'll just comment  
5 that, you know, the course of the IEPR and the natural gas  
6 work that I have been doing and just leading the natural  
7 gas policy area, the gas model is a key resource for us.  
8 And I think the long term plan that we're in the middle of  
9 executing and really getting our staff up to speed is  
10 critical. And I know Dr. Medlock has been quite flexible  
11 to work with and good responsive to us, which is good. We  
12 can't always say that about our consultants, no matter how  
13 about they are. I think having that interaction and  
14 having that market expertise and academic expertise just  
15 applied abilities really important. So I'm supportive.

16 COMMISSIONER SCOTT: I'll move Item 9.

17 COMMISSIONER MC ALLISTER: I'll second.

18 CHAIR WEISENMILLER: All those in favor?

19 (Ayes)

20 CHAIR WEISENMILLER: This resolution passes five  
21 to zero. Thank you.

22 Let's go on to Oceanside Unified School District.  
23 Possible adoption of Resolution ARV 13-006. This is  
24 \$299,157. This is ARFVTF funding.

25 MS. LOPEZ: Good afternoon. My name is Thanh

1 Lopez from the Emerging Fuels and Technologies Office of  
2 the Fuels and Transportation Division. I'm presenting for  
3 possible approval an agreement with Oceanside Unified  
4 School District to upgrade their existing compressed  
5 natural gas, or CNG, fueling station.

6 Oceanside Unified School District applied for  
7 funding under the Emerging Fuel and Technology Offices  
8 natural gas fueling infrastructure grant solicitation, the  
9 purpose of which is to support the installation of new  
10 infrastructure as well as upgrades to existing natural gas  
11 fueling infrastructure.

12 The original CNG station at Oceanside Unified  
13 School District was installed more than ten years ago and  
14 has become unreliable and in need of an upgrade. Without  
15 the station, the current bus fleet would have to travel to  
16 Carlsbad, about a ten mile round trip, to obtain CNG for  
17 their bus fleet which would entail significant additional  
18 costs associated with labor, vehicle depreciation and  
19 fueling charges.

20 This grant will allow the district to upgrade  
21 their existing natural gas dryer and 27 fuel dispensers  
22 for the fueling station. Upon completion, the upgraded  
23 station will continue to support the district's existing  
24 fleet of 29 CNG school buses, allowing the district to  
25 confidently provide consistent and reliable transportation

1 for students of the school district.

2 The station's increased capacity will reduce  
3 greenhouse gas and criteria pollutant emissions by  
4 increasing the displacement of petroleum-derived fuels  
5 with natural gas. This throughput will displace over  
6 66,000 gallons of diesel fuel annually and reduce  
7 greenhouse gas emissions by 180 metric tons per year.

8 If approved, the Energy Commission will provide  
9 \$299,157 in alternative and renewable fuel and vehicle  
10 technology program funds.

11 Staff is requesting the Commission support an  
12 approval of this proposed grant award. I'll be happy to  
13 answer any questions. Thank you for your consideration.

14 CHAIR WEISENMILLER: Thank you.

15 Commission, any questions or comments?

16 COMMISSIONER SCOTT: I'll move Item 10.

17 COMMISSIONER HOCHSCHILD: Second.

18 CHAIR WEISENMILLER: All those in favor?

19 (Ayes)

20 CHAIR WEISENMILLER: Resolution for Item 10 has  
21 been approved five to zero. Thank you.

22 Let's go on to Item 11, City of Waterford. This  
23 is loan agreement 004-13-ECD for \$1.3 million. This is  
24 ECAA funding.

25 MR. CHAUDHRY: Good afternoon, Mr. Chair and

1 Commissioners.

2 I'm Shahid Chaudhry with the Energy Efficiency  
3 Division. And I'm here today for your approval of ECAA  
4 funding \$1.3 million at one percent to the city of  
5 Waterford for renewable energy and energy efficiency  
6 projects at the city facilities.

7 The total cost of the project is \$1.86 million.  
8 The city will use this loan to install 297 kilowatt of PV  
9 panels at the wastewater treatment facility, city hall,  
10 and the community center, will efficiently upgrade  
11 wastewater treatment facilities operations and replace  
12 high pressure sodium street lights to LED lights.

13 On completion, this project will save over  
14 900,000 kilowatt hours annually and will correspond with  
15 \$102,000 a year. These projects will also mitigate about  
16 313 tons of carbon dioxide greenhouse gas emissions. The  
17 payback period on \$1.3 million loan is approximately 12.8  
18 years.

19 I'm here to answer any questions you may have.

20 CHAIR WEISENMILLER: Thank you. Commissioners  
21 any questions or comments?

22 COMMISSIONER DOUGLAS: No questions. Looks like  
23 a very good project --

24 COMMISSIONER HOCHSCHILD: Sorry. Did you say  
25 1.28 or 12.8?

1 MR. CHAUDHRY: 12.8 years simple pay back.

2 COMMISSIONER HOCHSCHILD: Right. Right.

3 COMMISSIONER MC ALLISTER: I'll just point out it  
4 was a nice mix of PV and energy efficiency. That's the  
5 kind of project that we really -- just a good thing all  
6 around. And knowing staff evaluating these projects is  
7 very capable of looking at the benefits and quantifying  
8 the sort of attractiveness, I fully support the project.  
9 So I'll move Item 11.

10 COMMISSIONER HOCHSCHILD: Second.

11 CHAIR WEISENMILLER: All those in favor of this  
12 Resolution?

13 (Ayes)

14 CHAIR WEISENMILLER: This Resolution passes five  
15 to zero.

16 Thank you. Let's go on to Item 13, city of  
17 Clovis. This is another one agreement 001-13-ECA for  
18 \$149,706. This is ECAA funding. And Cheng Moua.

19 MR. MOUA: Thank you. Good afternoon. I'm Cheng  
20 Moua with the Energy Efficiency Division Local Assistance  
21 and Financing Office.

22 This item is in request for approval of an ECAA  
23 loan with an amount of \$149,706 for the city of Clovis.  
24 The city of Clovis has requested this loan to fund a  
25 street light retrofit project, which includes retrofitting

1 374 street lights from high pressure sodium to LED  
2 technology.

3 The project is estimated to reduce the city's  
4 annual energy use by 144,000 kilowatt hours. This results  
5 in an annual cost savings of over 19,000 for the city.

6 The total cost for the project is approximately  
7 \$178,281. City of Clovis anticipates receiving  
8 approximately 28,000 from utility rebates. The remaining  
9 project funding is expected from the approval of this  
10 loan.

11 The simple pay back for this project is 7.7 years  
12 based on the loan amount and the interest rate is one  
13 percent. Staff has determined that this loan request  
14 complies with all program requirements, and I'm here to  
15 seek your approval. Thank you.

16 CHAIR WEISENMILLER: Thank you.

17 Commissioner, any questions or comments?

18 COMMISSIONER HOCHSCHILD: Are you mostly  
19 replacing high pressure sodium?

20 MR. MOUA: Yes. For instance, the city of  
21 Clovis, their current technology is HPS.

22 COMMISSIONER HOCHSCHILD: What is the energy  
23 consumption basis? Like a 70 percent reduction or  
24 50 percent reduction?

25 MR. MOUA: I would have to look at the exact

1 numbers again. But it depends. It's usually going from  
2 anywhere from let's say 150 down to, like, 70 or something  
3 like that for LED.

4 COMMISSIONER HOCHSCHILD: Good. 50 percent.  
5 Okay. Thanks.

6 I would move the item.

7 COMMISSIONER MC ALLISTER: I'll second.

8 CHAIR WEISENMILLER: All those in favor?

9 (Ayes)

10 CHAIR WEISENMILLER: This Resolution passes five  
11 to zero.

12 Let's go on to Item 13, City of Berkeley,  
13 possible adoption of Resolution approving loan 005-13-ECD.  
14 This is for \$3 million. And Cheng Moua, please. And this  
15 is ECAA funding again.

16 MR. MOUA: Yes. This item is a request for ECAA  
17 loan with the amount of three million dollars from the  
18 city of Berkeley. The city of Berkeley is also doing a  
19 street light retrofit project, which includes retrofitting  
20 over 7600 street lights to LED technology.

21 The current lighting consists of high pressure  
22 sodium. The project is estimated to reduce the city's  
23 energy use by over 2.9 million kilowatt hours. This  
24 results in an energy cost savings estimated at \$368,00 for  
25 the city.

1           The city of Berkeley will also apply for a  
2 utility rebate for approximately \$843,000. The simple pay  
3 back for this project is eight years based on the loan  
4 amount. The interest rate is one percent. Staff has  
5 determined the loan request complies with the program  
6 requirement. I'm here today to seek your approval.

7           CHAIR WEISENMILLER: Thank you.

8           Commissioners, any questions or comments?

9           COMMISSIONER MC ALLISTER: Looks like a good  
10 project. LEDs are really coming to the marketplace.  
11 They're a good thing.

12           I think also, you know, the maintenance -- a lot  
13 of advantages just the lifetime and maintenance reduction  
14 and that will kind of thing are really good for public  
15 entities cities and counties that own these lights. So  
16 there is a lot of benefits here.

17           COMMISSIONER HOCHSCHILD: I would just point out  
18 the innovation continues, and of course the great work of  
19 Phillips and GE and many others. It's still evolving.

20           CHAIR WEISENMILLER: I think they were like  
21 17,000 LED street lights out. It was a big push in that  
22 direction. And it's interesting when you look at the Navy  
23 Marines, they just leap forward from CFL straight to LED.  
24 As you go through the bases, we see LEDs now.

25           COMMISSIONER MC ALLISTER: I'll move Item 13.

1 COMMISSIONER DOUGLAS: Second.

2 CHAIR WEISENMILLER: Okay. All those in favor?

3 (Ayes)

4 CHAIR WEISENMILLER: This Resolution also passes  
5 five to zero.

6 Let's go on to Item 14, which is the minutes from  
7 the December 19th.

8 COMMISSIONER SCOTT: I'll move the minutes.

9 COMMISSIONER DOUGLAS: Second.

10 CHAIR WEISENMILLER: All those in favor?

11 (Ayes)

12 CHAIR WEISENMILLER: The minutes have been  
13 approved again five to zero.

14 Let's go on to lead Commissioner or Presiding  
15 Member Commission. Ms. Scott.

16 COMMISSIONER SCOTT: All right. I just have a  
17 couple of things that I will highlight for you.  
18 Commissioner Hochschild and I got to go out and visited  
19 Beal Air Force Base last week. That was a very  
20 eye-opening trip. I didn't realize what their mission was  
21 up there and a lot of their mission is to help protect our  
22 soldiers while they are overseas. It's because they've  
23 got these set of aircraft, and they're one of the only air  
24 forces I think in the world that has this type of air  
25 contract. It can go up to 15 miles high and look down and

1 see. And so they are able to look out ahead of where  
2 troops may be moving or if troops are sleeping someplace,  
3 they can keep an eye out around it. They communicate with  
4 someone directly at Beal Air Force base. The person at  
5 Beal is talking with a person over an incredibly robust  
6 wireless network of who's actually there. They're telling  
7 them what they're able to see. And that was really neat.

8           One of the things they wanted to highlight for  
9 Commissioner Hochschild and me is the aging  
10 infrastructure. So that if their power goes out and the  
11 are liability, right, if the power goes out all of a  
12 sudden they no longer have the ability for the guy who's  
13 getting the information to hear at Beal. Just put a  
14 really fine point on a lot of the energy issues that we  
15 discuss. I don't know if you want to add anything to  
16 that.

17           And then I had a chance to go tour to Clean World  
18 Fruit Ridge Facility, which is a waste to energy plant.  
19 And it's something that the alternative and renewable fuel  
20 vehicle technologies program helped to fund. It's great.  
21 It's just here in Sacramento. They take about 25 tons of  
22 food waste and turn it into methane.

23           What's really great about that is that it's a  
24 little machine and it kind of spins -- so you put like an  
25 empty yogurt container and it pokes holes in it so the

1 food waste comes out, but they can recycle the plastic or  
2 the can or whatever. And then they offered us a chance to  
3 kind of look into, but stuff was flying around. And we  
4 said, well, thank you. And they take that food waste and  
5 they put it in the anaerobic digesters and there is three  
6 different ones. It takes 45 days for it to get through  
7 the whole process. That's what makes the fuel.

8           What's great this is going into transportation  
9 fuel. So they have a little natural gas station right  
10 there, and it fuels up the trucks that are going out to  
11 pick up the food waste and then bring it back to the  
12 facility. And they're getting ready to expand from 25  
13 tons a day to 100 tons a day. So that's what they're  
14 working on right now. So we had an opportunity to see a  
15 little bit of the construction work that was going on.  
16 That was a neat visit of one of the great projects we had  
17 an opportunity to fund here at the Commission.

18           I'll give you a staffing update. Rhett deMesa  
19 was here. She's not any longer. Leslie had her baby and  
20 is now on maternity leave. It's a little girl. Healthy.  
21 Everyone is super happy and excited. And so (inaudible)  
22 from the PIER team, they've been kind enough to lend their  
23 resources. She is going to serve as my advisor while  
24 Leslie is out on maternity leave.

25           COMMISSIONER MC ALLISTER: I'll be very brief. I

1 already talked too much today about the IEPR.

2 I will just sort of leverage those comments to  
3 say I'm really -- well, first of all, you guys are having  
4 way more fun than I am out there doing stuff. I did have  
5 a nice holiday with my family. Seems like in the blink of  
6 an eye, we went from the December business meeting to the  
7 January business meeting. But a lot of just great stuff  
8 on tap challenging and interesting and necessary stuff on  
9 tap for 2014, certainly in the energy efficiency realm  
10 with pushing forward on the fronts that we've talked  
11 about. Really executing on the Prop. 39 work that staff  
12 is so ably doing and really getting that out there to the  
13 local educational authorities and school districts so they  
14 can take advantage of those funds by the summer. Do  
15 construction while the kids are not in school. And  
16 pushing forward on the various standards fronts is  
17 obviously something that we'll be doing this year.

18 And then, yeah, I think I'll just leave it at  
19 that. But I just want to -- 2014 is looking like it's  
20 going to be a good year with a lot of good stuff going on,  
21 certainly my office and across the Commission.

22 CHAIR WEISENMILLER: Yeah I think it's been a  
23 quiet time for certainly for many of us.

24 I don't remember if it was last business meeting  
25 or not, but we had a really fascinating meeting between

1 PIER folks and ARPA-E folks. We have an MOU. It's so far  
2 the only MOU ARPA-E has within the states. One of  
3 Secretary's signature initiatives was RPE. Pretty  
4 impressive group. We're trying to tie -- basically have  
5 our programs really complement each other. And so that  
6 was a fun meeting just in terms of the types of things  
7 they're doing in some areas. Obviously, they're much more  
8 shooting for the home run transformational. And a lot of  
9 our PIER stuff is more inch by inch. We get some funds,  
10 but it's not like here it is you have three years, do it.  
11 Get a transformation and go back. This is much more  
12 incremental. So that was fun.

13 I would follow up on your comments about planes  
14 in the air. When we had the outage down in San Diego --  
15 from just the things that went wrong there, they had  
16 drones in the air. And things were blacked out in the  
17 Navy Marine bases. It was certainly whenever I'm meeting  
18 with people from that base or back in the Pentagon, there  
19 is the question about reliability of power in San Diego.  
20 Because they pivot. They've got this -- Obama has this  
21 pivot towards the Pacific. So shifting a lot of the  
22 military resources more into California, at least on the  
23 west coast. So trying to make sure we don't spook anyone  
24 on that issue.

25 COMMISSIONER DOUGLAS: I have no reports about

1 the last two weeks, although I will also say that I'm  
2 looking forward to 2014. We've got a lot on our plates.  
3 I think 2014 is going to be a good year for us.

4 COMMISSIONER HOCHSCHILD: First, I just want to  
5 thank the Chair for his direction to Commissioner Scott  
6 and engaging with the military. That was a really  
7 productive visit at Beal Air Force Base, and we're going  
8 to be visiting bases from all the services this year.  
9 China Lake I think is on the list.

10 The only other thing I would update our Chair, I  
11 had discussed with the Chair the PACE program and digging  
12 into that. Because as you remember, the Governor's office  
13 took \$10 million I believe out of ERPA money into this  
14 special fund essentially to provide the back stop security  
15 to allow PACE to roll out.

16 Essentially, what I found out is PACE is really  
17 functioning very well in western Riverside and somewhat  
18 well in Sonoma. In Western Riverside, they've done 6,000  
19 homes now through the PACE program, have had very, very  
20 few defaults. So it's excellent in terms of default rate.  
21 And the average project size is \$18,000. So people are  
22 doing significant upgrades.

23 And that gives me great hope because if this  
24 thing -- I believe the regs are supposed to be completed  
25 this month. I'm told in that case all of California, you

1 know, has potential to launch a PACE program of that  
2 scale. I'm told it could be between two and four billion  
3 dollars of projects. That is from the PACE folks. So I'm  
4 still educating myself, but it sounds promising.

5 COMMISSIONER MC ALLISTER: I wanted to make a  
6 comment on that. In a previous incarnation, I was very  
7 involved in the PACE stuff at the local level. And  
8 Riverside and some of the other efforts have really I  
9 think been a nice crucible for what's going to work and  
10 what's going to be more difficult, and local governments  
11 vary a lot. But they are really critical to the PACE  
12 effort.

13 And it's hard to -- I think one lesson from  
14 Riverside, it's the more process heavy you make a program,  
15 the less participation you're going to get. And you know,  
16 I think smart people differ on what a good program looks  
17 like. And you're probably hearing a lot of that. But you  
18 know, the effort to develop and refine and implement PACE  
19 really has been going on a long time and it's proven to be  
20 a pretty rough road. And we're getting to the point where  
21 we're getting enough experience to have a whole array of  
22 programs and policies and kind of be able to tease out  
23 what's really going to work and provide some direction at  
24 the state level for the local governments who  
25 fundamentally they need a JPA and that JPA can be

1 statewide. But fundamentally, they have to make the  
2 curtailment mitigation to opt in and utilize their  
3 property tax rolls, open them up to a PACE approach.

4 And so I was really excited, you know -- what was  
5 it? Five or six years ago when PACE came up and it was a  
6 very heavy time. And a big bucket of cold water from the  
7 Fed and I believe a lawsuit from the State is still active  
8 to against FHFA. But in the mean time, a lot of people  
9 really put their nose to the ground and made local efforts  
10 work. So I think now we're going o reap the benefits of  
11 that. I'm glad you're taking that on.

12 COMMISSIONER HOCHSCHILD: One thing I would add  
13 is that a week ago, FHFA got a new director, who was just  
14 confirmed and sworn in. Literally, a week ago. It is an  
15 opportunity to get nationwide, although there is still  
16 strong opposition.

17 CHAIR WEISENMILLER: I was going to encourage  
18 both of you, if you go to China Lake to think about  
19 having -- well, I guess should put this better.

20 I went to China Lake Jackie Pfannenstiel and I  
21 did the dedication -- ground braking of Sun Power. I was  
22 there -- got in the night before. I had dinner down in  
23 L.A. scheduled the following day. They're going, oh,  
24 well, you know, if you were here longer, we could take the  
25 helicopter tour of the base and you get a better sense of

1 the geography. You want to see the China Lake geothermal,  
2 that's really far away. If we had more time, we could  
3 take you there, but you don't. We have world class  
4 petrographs here. But you don't enough time to get there.

5 So anyway, take some time is what I'm saying.  
6 It's a long way. But once you get there, make sure you  
7 have enough time to cover the things I want to cover.  
8 They had a fascinating biofuels activity too there. So  
9 anyway, a lot of it's really a great place to visit. Like  
10 I said, definitely leave yourself time to -- think through  
11 the agenda beforehand so you can cover the pieces you want  
12 to cover.

13 Chief Counsel's report.

14 CHIEF COUNSEL LEVY: Nothing today.

15 CHAIR WEISENMILLER: Executive Director's report?

16 EXECUTIVE DIRECTOR OGLESBY: Nothing to add  
17 today.

18 CHAIR WEISENMILLER: Public Advisor report.

19 PUBLIC ADVISOR: Nothing to add.

20 CHAIR WEISENMILLER: Public comment?

21 This meeting is adjourned.

22 (Whereupon the meeting adjourned at 1:29 PM)

