

## DOCKETED

<b>Docket Number:</b>	16-BUSMTG-01
<b>Project Title:</b>	2016 Business Meeting Transcripts
<b>TN #:</b>	215116
<b>Document Title:</b>	Transcript of 12/14/16 Business Meeting
<b>Description:</b>	N/A
<b>Filer:</b>	Cody Goldthrite
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	12/28/2016 4:07:51 PM
<b>Docketed Date:</b>	12/28/2016

In the Matter of: )  
 ) 16-BUSMTG-01  
 *Business Meeting* )  
 )

WEDNESDAY, DECEMBER 14, 2016

10:00 A.M.

**CALIFORNIA REPORTING, LLC**  
**22 Napa Street, Rodeo, California 94572 (510) 224-4476**

## APPEARANCES

### Commissioners

Robert Weisenmiller, Chair  
Karen Douglas  
Andrew McAllister  
Janea Scott  
David Hochschild

### Staff Present:

Rob Oglesby, Executive Director  
Kourtney Vaccaro, Chief Counsel  
Alana Mathews, Public Adviser  
Lisa DeCarlo  
Jennifer Martin-Gallardo  
Harinder Singh  
Kristen Driskell  
Michael Murza  
Cody Goldthrite, Secretariat

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Sylvia Palma	16
Martha Brook	17
Michael Sokol	18
Anne Fisher	18a
Sylvia Bender	18b

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Others Present (\* Via Phone)

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Scott Galati, Stanton Energy Reliability Center, LLC	3
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Lincoln Bleveans, City of Burbank	5
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Ashley Dunn, California Air Resources Board	8
Sarah L. White, California Workforce Development Board	8
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	Pursuant to Government Code section 11126(e), the Energy Commission may also discuss any judicial or administrative proceeding that was formally initiated after this agenda was published; or determine whether facts and circumstances exist that warrant the initiation of litigation, or that constitute a significant exposure to litigation against the Commission, which might include:	
	a. Claims filed at, and rejected by, the Victim Compensation and Government Claims Board against a number of defendants including the Energy Commission relating to the gas leak at Aliso Canyon.	
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P R O C E E D I N G S

DECEMBER 14, 2016 10:08 a.m.

CHAIRMAN WEISENMILLER: Let's start with the  
Pledge of Allegiance.

(Whereupon, the Pledge of Allegiance  
was recited in unison.)

CHAIRMAN WEISENMILLER: Good morning, so we'll  
start the Business Meeting. First, I just want to note  
that obviously 1a is not on the agenda today and that Item  
2, we don't have any items for that today. And we are  
going to split the Consent Calendar up into two parts.  
First, we will vote for everything except Item d and then  
we'll vote on d.

Commissioner McAllister, so why don't you?

COMMISSIONER MCALLISTER: So I'm going to recuse  
from 1d. Actually there is no conflict, but I'm going to  
be the representative if this passes, to the Alliance to  
Save Energy, a national nonprofit that is based in D.C.  
But which we historically have been a member of and we're  
re-upping that at a somewhat higher level, so I'll be the  
representative on the Board there, assuming they vote me  
in, in a month. So I don't currently have a conflict, but  
I wanted to from an abundance of caution and further  
appearances, just not take part in this vote.

1 CHAIRMAN WEISENMILLER: So let's deal with  
2 1d.  
3 COMMISSIONER SCOTT: Move approval of Item  
4 1b.  
5 COMMISSIONER DOUGLAS: Second.  
6 CHAIRMAN WEISENMILLER: All those in favor?  
7 (Ayes.)  
8 CHAIRMAN WEISENMILLER: So --  
9 COMMISSIONER SCOTT: Wait, I'm sorry, it  
10 was 1d?  
11 CHAIRMAN WEISENMILLER: 1d, yeah.  
12 MS. VACCARO: Yeah, so I think if you could  
13 just do that motion all over again, please?  
14 CHAIRMAN WEISENMILLER: Sure.  
15 COMMISSIONER SCOTT: Move approval of Item  
16 1d.  
17 COMMISSIONER DOUGLAS: Second.  
18 CHAIRMAN WEISENMILLER: All in favor?  
19 (Ayes.)  
20 CHAIRMAN WEISENMILLER: So 1d passes 4-0.  
21 Commissioner McAllister has abstained.  
22 Yes, okay. So let's take up the rest of  
23 the Consent Calendar. All of the items except for  
24 1d.  
25 COMMISSIONER DOUGLAS: Move consent except

1 for 1d.

2 COMMISSIONER HOCHSCHILD: Second.

3 CHAIRMAN WEISENMILLER: Yeah, all those in  
4 favor?

5 (Ayes.)

6 CHAIRMAN WEISENMILLER: So the Consent  
7 Calendar except for 1d passed 5-0.

8 Let's go on to Item 3.

9 MR. HEISER: Good Morning Commissioners, my  
10 name is John Heiser. I am with the Siting Division  
11 as a Project Manager for the proposed Stanton Energy  
12 Reliability Center Application for Certification.  
13 With me today is Lisa DeCarlo, Staff Counsel.

14 The item entails one action regarding the  
15 project: staff supporting the Executive Director's  
16 recommendations for data inadequacy for the  
17 Application for Certification.

18 The AFC, or Application for Certification,  
19 seeks certification for a proposed 98-megawatt, with  
20 2 natural gas fired, simple-cycle General Electric  
21 LM6000 turbine units, fitted with clutches for  
22 operation as synchronous condensers with combined  
23 with 10-megawatts of battery storage.

24 The project is located in the City of  
25 Stanton, Orange County, California; adjacent to the

1 Southern California Edison Barre power plant, peaker  
2 plant, and substation.

3           The proposal would provide generation for  
4 local reliability in the Southern California Edison  
5 West Los Angeles Basin Subarea. It was selected as  
6 part of SCE's, or Southern California Edison's 2013  
7 Local Capacity Requirements Request for Offers. And  
8 the Power Purchase Agreement approved by the  
9 California Public Utility Commission.

10           The Stanton Energy Reliability Center AFC  
11 was submitted October 26th, 2016 of this year.  
12 Staff's initial review of the AFC found that the  
13 information provided by the Applicant was not data  
14 adequate, in particular, the deficiencies in the  
15 areas of Air Quality, Cultural Resources, Geological  
16 Hazards, Project Overview, Reliability,  
17 Socioeconomics, Traffic and Transportation,  
18 Transmission System Design and Water Resources.

19           In addition, on December 5th, 2016 the  
20 South Coast Air Quality Management District  
21 submitted a letter to the Energy Commission and it  
22 was docketed indicating the submitted air permit  
23 application is not complete.

24           Staff is working with the Applicant  
25 requesting the information to move forward on the

1 project. Therefore, staff is recommending the  
2 Commissioners accept the Executive Director's  
3 recommendation finding the application incomplete as  
4 reflected in the attached Order.

5 Siting staff, Staff Counsel and the  
6 Applicant are available for questions.

7 CHAIRMAN WEISENMILLER: Thank you.

8 Applicant?

9 MR. GALATI: Good morning, Commissioners.  
10 My name is Scott Galati. I'm representing Stanton  
11 Energy Reliability Center LLC, which is a joint  
12 venture between Wellhead Electric and W Power.

13 We agree with the recommendation and accept  
14 the recommendation that we're data inadequate at  
15 this time. I can tell you that we're working hard.  
16 We believe we will be data adequate by the January  
17 Business Meeting, at which point I'd like the Client  
18 to come in and tell you a little bit about this  
19 unique project. And how the batteries are not a  
20 stand-alone piece of equipment, but that they worked  
21 integral with the turbines to eliminate rotating  
22 pinion in standby with no fossil generation, no  
23 fossil fuel firing.

24 But at this time I'd like to thank staff  
25 that have been very, very helpful. Particularly,

1 Mr. Heiser has been very helpful in arranging calls  
2 with some of the members of staff. Sudath and Mark  
3 Hesters have been very helpful with us.

4 We believe that we'll be filing our Data  
5 Adequacy Supplement probably Friday or early next  
6 week. We are still working with the District on the  
7 Air Quality Completeness letter and that might be  
8 the only thing that trails. But we hope to see you  
9 in January and tell you more about this project.  
10 Thank you.

11 CHAIRMAN WEISENMILLER: Okay. Thank you.

12 Let's go on to -- this was an informational  
13 item at this stage -- let's go on to Item 4.

14 (Off mic colloquy about item action.)

15 MS. VACCARO: No, I believe that an action  
16 is required under the Commission.

17 CHAIRMAN WEISENMILLER: Okay. So let's do  
18 the action, Commissioner Douglas?

19 COMMISSIONER DOUGLAS: I'll move to approve  
20 this --

21 CHAIRMAN WEISENMILLER: I should say does  
22 anyone have any comments either in the audience or  
23 on the phone?

24 COMMISSIONER DOUGLAS: Good point.

25 (No audible response.)

1                   CHAIRMAN WEISENMILLER:   Now, Commissioner  
2 Douglas.

3                   COMMISSIONER DOUGLAS:   All right.  I move  
4 to approve the staff's recommendation finding this  
5 application data inadequate.

6                   COMMISSIONER MCALLISTER:  I'll second.

7                   CHAIRMAN WEISENMILLER:  All those in favor?

8                   (Ayes.)

9                   CHAIRMAN WEISENMILLER:  So this passes 5-0.

10 Thank you.

11                  MR. HEISER:  Thank you.

12                  CHAIRMAN WEISENMILLER:  Let's go on to Item  
13 Number 4, Abengoa.

14                  MS. ROOT:  Hi, good morning.  My name is  
15 Christine Root.  I'm the Compliance Office Manager  
16 for the Siting Division.  Also, with me today is  
17 Staff Counsel Jennifer Martin-Gallardo and we also  
18 have representatives from Mojave Solar, LLC.

19                  The Abengoa Mojave Solar Power Project was  
20 certified by the Energy Commission on September 8th,  
21 2010 and began commercial operation on December 9th,  
22 2014.  This is a 250 megawatt solar project located  
23 near the town of Hinkley, approximately 20 miles  
24 northwest of the City of Barstow in San Bernardino  
25 County, California.

1                   On or about July 8th, 2015 through July  
2 24th, 2015 an event at the project site initially  
3 stemming from a water leak at the fire main at the  
4 Beta Power Block prompted a staff investigation.

5                   After staff's investigation staff  
6 determined various violations had occurred. Staff  
7 stands by these allegations, but has resolved these  
8 issues through a Settlement Agreement with Mojave  
9 Solar, LLC. The legal requirements at issue as well  
10 as staff's allegations and Mojave Solar's admissions  
11 and denials are included in the proposed Settlement  
12 Agreement.

13                   In addition to a payment in the amount of  
14 \$51,000, Mojave Solar, LLC has agreed to additional  
15 requirements to ensure the site has a reliable fire  
16 protection system and to ensure that proper  
17 procedures are in place in the event of a planned or  
18 emergency impairment to the fire protection system.

19                   Staff recommends three new Condition of  
20 Certification: GEN-1.1., 1.2 and 1.3 be added to the  
21 Energy Commission decision to include proper  
22 notification to the Energy Commission, ensure future  
23 impairments are handled according to the California  
24 Fire Code regulations, and to ensure the fire  
25 suppression system's operational readiness and



1 reliability. These conditions have been agreed to  
2 by the parties through the settlement.

3 In summary, GEN-1.1 directs Mojave Solar to  
4 provide information regarding the damage or failure  
5 of the fire water mains from the start of  
6 construction through decommissioning.

7 Condition GEN-1.2 directs Mojave Solar to  
8 retain FM Global or another mutually agreed upon  
9 entity to conduct a root cause analysis and  
10 assessments of any past damage or failure to the  
11 fire protection water mains at both Alpha and Beta  
12 power blocks for this project. And provide  
13 recommendations to ensure operational readiness and  
14 reliability and compliance with the California Fire  
15 Code.

16 Finally, Condition GEN-1.3 directs Mojave  
17 Solar to update the project's fire protection Plan  
18 to include a section on fire protection impairment  
19 practices and procedures.

20 The requirements of the settlement have  
21 been reviewed by staff. Staff has determined that  
22 the new Conditions of Certification proposed in the  
23 Settlement Agreement will not have a significant  
24 effect on the environment and will not cause the  
25 project not to comply with any applicable laws,

1 ordinances, regulations or standards. This matter  
2 is not subject to the requirements of Title 20  
3 California Code of Regulations Section 1769.

4 Staff recommends that the Energy Commission  
5 approve the Mojave Solar Settlement Agreement and  
6 add these new Conditions of Certification to the  
7 Energy Commission license based upon staff's  
8 findings.

9 And staff is available if you have any  
10 questions as well as Mojave Solar, which I believe  
11 you guys would like to make a statement?

12 CHAIRMAN WEISENMILLER: Please, Applicant?

13 MS. NEUMYER: Good morning, Samantha  
14 Neumyer on behalf of Mojave Solar, the project  
15 owner. With me today is Enrique Guillen, Corporate  
16 Compliance Manager for Mojave Solar.

17 As indicated in the Settlement Agreement,  
18 staff and Mojave Solar do not agree that there was  
19 any potential noncompliance with any of the  
20 Conditions of Certification. Our settlement of this  
21 matter is not an admission of any culpability or  
22 liability. We settled in part, because the time and  
23 cost of further litigating this matter would greatly  
24 outweigh the costs, financial and otherwise, of  
25 settlement.

1           We thank Commission staff for working  
2 towards a mutually acceptable resolution of these  
3 issues. We look forward to putting this matter  
4 behind all of us and to continue providing  
5 affordable, renewable energy at a facility that has  
6 met, and will continue to meet, the highest  
7 standards.

8           We accept the settlement and support  
9 adoption of the proposed resolution.

10           CHAIRMAN WEISENMILLER: Okay. Is there  
11 anyone in the room or on the phone who wants to  
12 comment on the settlement?

13           (No audible response.)

14           Commissioner Douglas?

15           COMMISSIONER DOUGLAS: Well, I just wanted  
16 to thank the staff for their diligence and work in  
17 this matter, and Mojave Solar as well. And I'm  
18 pleased that you have come to a settlement.

19           You know, our primary goal as we look at  
20 our licenses in the siting area is compliance,  
21 communication and obviously, the ability to resolve  
22 issues in a timely fashion. And we really look  
23 forward to continuing to work with you and others,  
24 moving forward. We appreciate the fact that you're  
25 here today and appreciate your comments. And I'll

1 just look to see if there are any other comments.

2 I'll move approval of this item.

3 COMMISSIONER SCOTT: Second.

4 CHAIRMAN WEISENMILLER: All those in favor?

5 (Ayes.)

6 CHAIRMAN WEISENMILLER: This item passes 5-  
7 0. Thank you.

8 Let's go on to Item 5, City of Burbank.

9 MR. NYBERG: Good Morning Chair  
10 Weisenmiller, Commissioners, my name is Michael  
11 Nyberg. And I am the Program Manager for the  
12 Emission Performance Standard in the Energy  
13 Assessments Division.

14 The Emission Performance Standard was  
15 established under Senate Bill 1368 by Senator  
16 Perata, Chapter 598 of the 2006 Statutes.

17 The EPS limits long-term investments in  
18 baseload generation by the state's utilities to  
19 power plants that meet an emission performance  
20 standard for carbon dioxide. The standard was  
21 jointly established by the California Energy  
22 Commission and the California Public Utilities  
23 Commission, and is set at 1,100 pounds per megawatt-  
24 hour.

25 On October 27, 2016, the City of Burbank

1 submitted a compliance filing requesting a  
2 determination that their Second Amendatory Power  
3 Sales Agreement is in compliance with the Greenhouse  
4 Gases Emission Performance Standard, pursuant to  
5 Title 20 of the California Code of Regulations,  
6 beginning with Section 2900.

7           The City of Burbank is a participant in the  
8 Intermountain Power Project, an 1,800 megawatt coal-  
9 fired power plant located near Delta, Utah. Along  
10 with Burbank, other purchasers of IPP's energy  
11 include 23 Utah municipalities, 6 rural electric  
12 cooperatives, and 5 other California municipalities:  
13 Anaheim, Glendale, Los Angeles, Pasadena, and  
14 Riverside.

15           The Second Amendatory Power Sales Contract,  
16 signed on March 16th, 2016, allows for the  
17 repowering of the Intermountain Power Project's  
18 coal-fired generating units with up to 1,200  
19 megawatts of EPS-compliant natural gas-fired  
20 combined cycle units by July 1st, 2025. This  
21 contract expires on June 15th, 2077.

22           The Repowering Project will have a pair of  
23 600 megawatt natural gas-fired power blocks with an  
24 expected CO2 emission rate of approximately 800  
25 pounds per megawatt-hour. Burbank's share of the

1 repowering project will be 40 megawatts up to a  
2 maximum of 50 megawatts. Burbank also has an option  
3 to withdraw from the Project or reduce its  
4 entitlement by up to 20 percent by November 1st,  
5 2019.

6           The City of Burbank acknowledges that a  
7 subsequent EPS compliance filing will be necessary  
8 if the final design implementation is significantly  
9 different from one of the three options described in  
10 this filing.

11           The Los Angeles Department of Water and  
12 Power, Intermountain Power Project's operating  
13 agent, previously submitted a compliance filing for  
14 the conversion of IPP from a coal-fired to a gas-  
15 fired power plant and was found compliant at the  
16 October 19th Business Meeting.

17           Burbank's compliance filing involves the  
18 exact same resource as LADWP and identifies the same  
19 three potential combined cycle designs and vendor  
20 specifications. Based on this information, staff  
21 calculated the expected CO2 emission rates at  
22 various loads and was able to duplicate the CO2  
23 emission rates to within 0 to 2 percent.

24           Staff has evaluated Burbank's compliance  
25 filing and concludes that the analysis conducted in

1 reviewing LADWP's compliance filing holds here as  
2 well. Staff concludes that the Second Amendatory  
3 Power Sales Contract is compliant with the EPS  
4 pursuant to Section 2902(a); specifically, that the  
5 proposed combined cycle power plant design in the  
6 compliance filing is below the EPS limit of 1,100  
7 pounds per megawatt-hour. The combined cycle units  
8 specified in the Second Amendatory Power Sales  
9 Contract meet the EPS.

10 Therefore, staff recommends the Energy  
11 Commission find that the covered procurement  
12 described in the Burbank compliance filing complies  
13 with the Energy Commission's Greenhouse Gases  
14 Emission Performance Standard, Title 20, beginning  
15 with Section 2900 of the California Code of  
16 Regulations.

17 A representative from the City of Burbank  
18 is here to provide a summary statement concerning  
19 their compliance filing.

20 Thank you.

21 MR. BLEVEANS: Good morning, my name is  
22 Lincoln Bleavens, Power Resources Manager at Burbank  
23 Water and Power. And it's a great pleasure to be  
24 here in support of this filing.

25 Burbank has been very aggressively

1 following local policy direction as well as state  
2 policy direction in achieving both RPS goals as well  
3 as the larger greenhouse gas goals. And we continue  
4 to plan to do that in the future. This project is a  
5 very important part of that being the only and last  
6 coal-fired generator in Burbank's portfolio.

7 More importantly though, the filing and the  
8 rule process itself creates some very important  
9 planning options for Burbank as we move towards a 50  
10 percent renewable by 2030 as well as keeping our  
11 carbon journey, so to speak, in track with the  
12 state's carbon journey.

13 First of all, by shutting down the coal  
14 plant and replacing it we create room in our  
15 portfolio for additional renewables. We're already  
16 over resourced. We have been for some time, so  
17 creating room in that portfolio becomes very  
18 important.

19 Second of all, the project transmission  
20 line, especially the STS, which runs from Delta,  
21 Utah into the L.A. Basin, gives us access to new  
22 renewable resources, both wind and solar.

23 And finally, the repowering of that site  
24 will give us a way to integrate renewables in our  
25 portfolio, which will become increasingly important.



1 And increasingly challenging as we move towards 50  
2 percent and that is whether we end up with a  
3 generation project or a storage project or perhaps  
4 both out at Intermountain. So we see this as an  
5 important step and as a step that is very much an  
6 important part of our move along our greenhouse gas  
7 journey, and our RPS journey for Burbank Water and  
8 Power.

9 So with that I'd love to take any  
10 questions.

11 CHAIRMAN WEISENMILLER: Thank you. Let's  
12 first see if there's anyone either in the audience,  
13 or on the phone, who have comments on this?

14 (No audible response.)

15 CHAIRMAN WEISENMILLER: Okay. So let's  
16 then transition over to the Commissioners.

17 I wanted to thank you for being here today  
18 and also for your explanation of both your  
19 commitment moving forward to address greenhouse gas  
20 goals in renewables and at the same time, just  
21 taking this important step at this point in moving  
22 away from coal generation.

23 And certainly I look forward to working  
24 with you in the future as you continue that pivot  
25 and continue that march forward to addressing

1 greenhouse gas goals and bringing more renewables  
2 online.

3           Anyone else, have a motion?

4           COMMISSIONER MCALLISTER: I just wanted to  
5 also thank you for being here. And just point out,  
6 acknowledge, and congratulate you for Burbank's  
7 innovation on a lot of different fronts. Certainly  
8 on the planning and on the kind of advanced metering  
9 infrastructure and really sort of just good  
10 management generally.

11           I think you set a really good example, and  
12 this is another example of that sort of proactive  
13 and transparent planning and execution. So  
14 congratulations and thanks.

15           MR. BLEVEANS: Thank you.

16           COMMISSIONER MCALLISTER: Okay. I'll move  
17 Item 5.

18           COMMISSIONER HOCHSCHILD: Second.

19           CHAIRMAN WEISENMILLER: All those in favor?

20           (Ayes.)

21           CHAIRMAN WEISENMILLER: Pass 5-0, thanks  
22 again. Thanks for being here.

23           MR. BLEVEANS: Thank you.

24           CHAIRMAN WEISENMILLER: Let's go on to Item  
25 6.

1           MR. NYBERG:   Good morning again, Chair,  
2   Commissioners.   Similar to Item 5, I am presenting  
3   an Emission Performance Standard compliance filing  
4   regarding the conversion of the Intermountain Power  
5   Project.

6           On November 2, 2016, the City of Riverside  
7   submitted a compliance filing requesting a  
8   determination that their Second Amendatory Power  
9   Sales Agreement is in compliance with the Greenhouse  
10   Gases Emission Performance Standard, pursuant to  
11   Title 20 of the California Code of Regulations,  
12   beginning with Section 2900.

13           The Second Amendatory Power Sales Contract,  
14   signed on March 16th, 2016, allows for the  
15   repowering of Intermountain Power's 1,800 megawatt  
16   coal-fired generating plant with up to 1,200  
17   megawatts of natural gas-fired combined cycle units  
18   by July 1st, 2025.   The Repowering Project will  
19   consist of a pair of 600 megawatt natural gas-fired  
20   power blocks with an expected CO2 emission rate of  
21   approximately 800 pounds per megawatt-hour.   This  
22   contract expires on June 15th, 2077.

23           Riverside's City Council has set a  
24   participation limit of no more than 5 percent or 60  
25   megawatts, an amount less than the 91 megawatts

1 share presented within the contract. Riverside also  
2 has an option to withdraw from the Project or reduce  
3 its entitlement by up to 20 percent by November 1,  
4 2019.

5           The City of Riverside acknowledges that a  
6 subsequent EPS compliance filing will be necessary  
7 if the final design implementation is significantly  
8 different from one of three options described in  
9 this filing.

10           As previously stated, the Los Angeles  
11 Department of Water and Power submitted a compliance  
12 filing for the conversion of IPP from a coal-fired  
13 to a gas-fired power plant and was found compliant  
14 at the October 19 Business Meeting. Riverside's  
15 compliance filing involves the exact same resource  
16 as LADWP and identifies the same three potential  
17 combined cycle designs and vendor specifications.

18           Staff has evaluated Riverside's compliance  
19 filing and concludes that the analysis conducted in  
20 reviewing LADWP's compliance filing holds here as  
21 well: staff concludes that the Second Amendatory  
22 Power Sales Contract is compliant with the EPS  
23 pursuant to Section 2902(a). Specifically that the  
24 proposed combined cycle power plant design in the  
25 compliance filing is below the EPS limit of 1,100

1 pounds per megawatt hour. The combined cycle units  
2 specified in the Second Amendatory Power Sales  
3 Contract meet the EPS.

4 Therefore, staff recommends the Energy  
5 Commission find that the covered procurement  
6 described in the Riverside compliance filing  
7 complies with the Energy Commission's Greenhouse  
8 Gases Emission Performance Standard, Title 20,  
9 beginning with Section 2900 of the California Code  
10 of Regulations.

11 And representatives from the City of  
12 Riverside are here to provide a summary statement  
13 concerning their compliance filing. Thank you.

14 MR. GARCIA: Good morning. Daniel Garcia,  
15 Assistant General Manager of Resources, Riverside  
16 Public Utilities. I would like to thank the  
17 Commission for considering Riverside's EPS  
18 compliance filing for participation in the IPP  
19 Repower Project.

20 Riverside's environmental leadership is  
21 well established. Riverside adopted its own  
22 renewable portfolio standard in 2003, well before  
23 the state mandate of 2011. Riverside has approved  
24 13 renewable resource contracts in the past few  
25 years, exceeding 200 megawatts of capacity, which

1 will enable Riverside to ready 40 percent RPS in  
2 2020.

3           Once the IPP Repower Project comes online  
4 in 2025, it would help to reduce the City's power  
5 supply greenhouse gas footprint by more than 85  
6 percent below 2006 levels. And Riverside's resource  
7 portfolio will be completely divested from coal  
8 generation.

9           In June, 2015, Riverside City Council  
10 approved and authorized Riverside's participation  
11 for up to 60 megawatts in the new gas-fired repower  
12 project. In November of 2015, the City Council  
13 approved the compliance filing, a Notice of Public  
14 Meeting, and no public comments have been received.

15           Riverside would appreciate the Commission's  
16 approval of the compliance filing to enable  
17 Riverside's continued participation in the Repower  
18 Project. Thank you. I'm available for questions.

19           CHAIRMAN WEISENMILLER: Thank you. First  
20 let's see, is there any comments from anyone in the  
21 room or on the line?

22           (No audible response.)

23           CHAIRMAN WEISENMILLER: And again, let's  
24 transition to the Commissioners. Again, I'd like to  
25 thank you for being here. I think is certainly a

1 great day as you're starting to pivot off of coal,  
2 certainly appreciate your historic efforts on  
3 renewables. I look forward to working with you over  
4 the arc between now and 2030 on reducing your  
5 greenhouse gas footprint with more renewables,  
6 energy efficiency, and hopefully electrification of  
7 transportation. So again, thanks for being here.

8 Anyone else?

9 COMMISSIONER SCOTT: I'll move approval of  
10 Item 6.

11 COMMISSIONER MCALLISTER: I'll second.

12 CHAIRMAN WEISENMILLER: All those in favor?

13 (Ayes.)

14 CHAIRMAN WEISENMILLER: This passes 5-0.  
15 Thank you. Thanks again.

16 Let's go on to Item 7, Energy Efficiency  
17 Regulations for Computers, Computer Monitors,  
18 Signage Displays and Battery Chargers.

19 I will again remind anyone who'll want to  
20 speak to file a blue card. The Public Adviser in  
21 the back will be happy to help you with that.

22 MS. PASHA: Good morning, Chair and  
23 Commissioners. My name is Soheila Pasha. I am an  
24 Electrical Engineer with the Energy Commission's  
25 Appliance Efficiency Program. Also joining me are

30

1 Harinder Singh, Senior Electrical Engineer with the  
2 Appliance Efficiency Program, and Lisa DeCarlo from  
3 the Chief Counsel's Office.

4 I'm here today to present to you Item 7,  
5 which is the possible adoption of new standards for  
6 computers and computer monitors, and clarifying the  
7 existing scope for signage displays, and battery  
8 chargers.

9 In California, there are more than 44  
10 million desktops, notebooks, small-scale servers,  
11 and workstations and more than 25 million monitors.  
12 Together computers and monitors use an estimated  
13 5,610 gigawatt hours of electricity per year, which  
14 is up to 3 percent of residential electricity use  
15 and 7 percent of commercial use. This makes  
16 computers and monitors one of the leading consumers  
17 of electricity in California and most sit idle,  
18 wasting energy and money while not in use.

19 The Warren-Alquist Act gives the Energy  
20 Commission Authority to set minimum levels of  
21 operating efficiency for appliances sold or offered  
22 for sale in California. Since 1976, California has  
23 addressed a portion of its demand with appliance  
24 efficiency. Furthermore, appliance efficiency is a  
25 key strategy to achieving California's greenhouse



1 gas reduction goals of AB 32.

2           Our proposed Efficiency Standards for  
3 Computers and Computer Monitors will save energy in  
4 the state while saving consumers money, without  
5 harming the usefulness of the products or future  
6 innovations. The proposed set of regulations are  
7 projected to reduce electricity usage in commercial  
8 and residential buildings by more than 2,300  
9 gigawatt hours per year after stock turnover for a  
10 utility bill savings of \$373 million annually. This  
11 is equivalent to providing enough electricity to  
12 power all homes in San Francisco and San Luis Obispo  
13 Counties in 2015. Lower electricity consumption is  
14 expected to reduce greenhouse gas emissions by more  
15 than 0.73 million-metric tons of CO2 equivalent per  
16 year.

17           These standards were developed with  
18 significant input from stakeholders including the  
19 computer industry, energy efficiency advocates, and  
20 the investor owned utilities. We vetted the  
21 regulations publicly through several workshops and  
22 comment periods on the proposed regulation. Today,  
23 we present a standard that is cost-effective,  
24 technically feasible, and will save significant  
25 energy and money in California.

1           The proposed standards focus on achieving  
2 such significant efficiency improvements when  
3 computers are wasting energy and money while sitting  
4 idle. Though the proposed standards are cost  
5 effective, they do not impact the functionality of  
6 the computers and monitors, and generally provide  
7 manufacturers flexibility to determine how to  
8 comply. For example, the Commission estimates that  
9 the proposed standards for desktops, when first take  
10 effect, will add about \$10 to the cost of a computer  
11 but will save consumers more than \$40 in electricity  
12 bills over five years.

13           The environmental impacts of the proposed  
14 regulations have been considered, and are consistent  
15 with the requirements of CEQA, the California  
16 Environmental Quality Act. Staff issued an initial  
17 study that found no significant adverse  
18 environmental impacts due to the proposed  
19 regulation. The study found positive effects from a  
20 reduction in reduced emissions related to lower  
21 electricity consumption. The Commission issued a  
22 30-day comment period necessary to comply with CEQA  
23 Guidelines but did not receive any comments on these  
24 findings. Next slide

25           The proposed regulations contain potential

1 standards for monitors that are 17 to 61 inches, and  
2 include specialty monitors like enhanced performance  
3 displays, gaming monitors, curved monitors, and OLED  
4 monitors. The Monitor Standards do not apply to  
5 televisions or signage displays, which are covered  
6 under TV Standards, or to computing devices like  
7 smart phones and tablets.

8           The proposed standards cover four main form  
9 factors of computers, which are: desktops,  
10 notebooks, small-scale servers, and workstations.  
11 Integrated desktops and thin clients are combined in  
12 the desktop category. Examples of the systems that  
13 are not included in the scope of the proposed  
14 regulations are tablets, small computer devices such  
15 as smart phones and game consoles, large-scale  
16 servers and industrial computers.

17           Monitors operate in three different modes:  
18 on, sleep, and off. The proposed regulations  
19 require power consumption limits while the monitor  
20 is in any of these modes.

21           Computers, on the other hand, typically  
22 operate in five distinct modes: active, short-idle,  
23 long-idle, sleep and off. The core opportunity for  
24 energy savings in computers is found in reducing the  
25 amount of energy consumed when the system is sitting

1 idle. Roughly half of the times computers are on,  
2 but not being used. Proposed Standards are aimed to  
3 reduce the power consumption for such cases.

4           For monitors the on-mode power consumption  
5 limit consists of a base target and additional  
6 allowances for specific features such as enhanced  
7 performance displays. The base energy target is  
8 allocated based on the diagonal size of the monitor  
9 display and accounts for the monitor resolution and  
10 screen area. Monitors with multiple special  
11 features may combine allowances for those features.

12           For desktop computers, the proposed  
13 regulations would set an annual energy consumption  
14 target, called base energy, plus additional  
15 allowances for specific features, ports and  
16 functionalities included in the system such as  
17 discrete graphic cards or additional storage  
18 devices. The base energy target for desktop  
19 computers is scaled based on the expandability of  
20 the computer, which should also correlate with the  
21 power supply size since it provides power to the  
22 expanded features.

23           For notebook computers, similar to  
24 desktops, the proposed regulations would set a  
25 target for the base energy plus additional

1 allowances for specific features, ports and  
2 functionalities included in the system.

3           For small-scale servers and workstations,  
4 proposed standards are prescriptive. These types of  
5 computers are in active mode more often than typical  
6 desktops. In active mode, energy saving  
7 opportunities are primarily driven by the quality of  
8 the power supply. Therefore, small-scale servers  
9 and workstations are not required to meet energy  
10 consumption limits, but rather are required to be  
11 manufactured with an 80 plus gold level power  
12 supply, and an energy efficient Ethernet.

13           A major opportunity for energy saving  
14 without an added cost is to have a proper power  
15 management setting. Because computers consume  
16 significantly lower energy in sleep mode as compared  
17 to short and long-idle modes, it is important that  
18 the system is automatically transitioned into sleep  
19 mode if it is sitting idle. Therefore, all  
20 computers are required to meet certain power  
21 management requirement that must turn off the  
22 display after 15 minutes of inactivity and must  
23 enter the computer into sleep or alternative sleep  
24 mode after 30 minutes or less of user inactivity.  
25 This does not apply to computers that are always

1 active or that don't have a fully functional  
2 operating system.

3           The effective date for the Computer Monitor  
4 Standards is July 1, 2019. Manufacturers can apply  
5 allowances for special features, which are  
6 structured in two tiers. Effective dates for Tier I  
7 adders is July 1, 2019 and effective dates for Tier  
8 II adders is January 1, 2021.

9           For computers, the effective date for  
10 small-scale servers and workstations is January 1st,  
11 2018 and for notebook computers is January 1st,  
12 2019.

13           The proposed standards for desktops are  
14 implemented in two tiers in order to maximize energy  
15 savings and provide a smoother supply chain  
16 transition. The effective date of the 1st Tier is  
17 January 1, 2019, and the effective date of the 2nd  
18 Tier standards is July 1, 2021.

19           The standards are technically feasible for  
20 both computers and monitors. For monitors,  
21 technologies to improve their efficacy and meet the  
22 proposed standards exist today. About 20 percent of  
23 monitors in today's market meet the overall proposed  
24 standards and a large portion, about 80 percent,  
25 meet the proposed levels for the sleep and off

1 modes.

2           The proposed standards for desktops and  
3 notebooks are in terms of the annual energy  
4 consumption and allows trade-offs that provide the  
5 flexibility to comply in the most cost-effective  
6 way.

7           There are some desktop computers currently  
8 in the market that meet the proposed Tier 1  
9 standards and do not require further improvements.  
10 For the others, the proposed standards are designed  
11 in a way to ensure that they can comply using  
12 existing technologies, without increasing the cost  
13 more than the savings and while providing the same  
14 customer utility.

15           The majority of notebook computers  
16 certified to the ENERGY STAR database already meet  
17 the proposed standards, showing that it is  
18 technically feasible to meet the standards.

19           For computers that need to comply with  
20 small-scale servers and workstation requirements,  
21 there are currently more than 1,500 power supplies  
22 and a wide range of energy-efficient Ethernets  
23 available in the market that meet the proposed  
24 standards.

25           The standards are very cost-effective. As

1 this slide shows the life cycle savings for all  
2 computer form factors, and for monitors, are far  
3 more than the incremental costs and therefore the  
4 proposed regulations are cost effective.

5           Unlike most appliance types for which the  
6 Energy Commission has proposed regulation,  
7 manufacturing of desktop computers is feasible even  
8 at a very small scale, which means that the testing  
9 costs and costs of compliance may have a larger  
10 effect on these small businesses. For this reason,  
11 the proposed regulations include some limited  
12 exemptions that apply to Small Volume Manufacturers  
13 or SVMs.

14           Manufacturers with total annual gross  
15 revenue of \$2 million or less who assemble and sell  
16 the computers at the same location are qualified as  
17 Small Volume Manufacturer and can certify themselves  
18 as a Small Volume Manufacturer to the Commission's  
19 database. SVMs do not have to comply with the  
20 standards, but do have to comply with the power  
21 management. If SVMs produce 50 units or more of a  
22 basic model of desktop or workstation, then those  
23 units have to comply with the standards.

24           We are proposing some clarifying changes in  
25 this regulation. First, we clarified that signage



1 displays are required to meet the standards for  
2 televisions. We also clarified that professional  
3 signage displays, which are found in stadiums and  
4 convention centers, are not covered under this  
5 standard. Second, we clarify that certain non-  
6 consumer battery chargers are excluded from the  
7 current battery charger regulations.

8           The computers and monitors market is  
9 rapidly changing and evolving. Staff has proposed  
10 standards that are flexible enough to allow for  
11 continued innovation and growth while stringent  
12 enough to ensure that manufacturers prioritize  
13 energy efficiency in their products. However, our  
14 regulations may not have completely predicted the  
15 future market. Therefore, in the Proposed Adoption  
16 Order, we suggest that the Commission direct staff  
17 to do two things to ensure that the energy savings  
18 projected from this rulemaking are achieved.

19           First, staff will monitor the market for  
20 shifts in technologies or features that were not  
21 expected at the time of this rulemaking, such as a  
22 significant increase in the shipments of enhanced  
23 performance displays that could impact the energy  
24 savings expected from this rulemaking. To do this,  
25 staff will analyze the rates at which computer and

1 monitor models and features are certified, and use  
2 third-party shipment data to verify whether there is  
3 a shift in the market toward products or features  
4 that were considered marginal during the rulemaking.  
5 If there is a shift toward one of these products or  
6 features, staff will consider proposing changes to  
7 the standards that will prevent these market changes  
8 from significantly reducing the overall energy  
9 savings projected in this rulemaking.

10           Second, if staff receives a petition for  
11 rulemaking to change or create an adder or allowance  
12 related to a new feature or technology that was not  
13 considered as part of this rulemaking, staff will  
14 commit to presenting to the Commission potential  
15 regulatory changes within six months of the petition  
16 being granted by the Commission. The rulemaking  
17 petition received by the Commission will need to  
18 include sufficient information to show that the new  
19 feature or technology was not considered during this  
20 rulemaking, what the energy consumption levels are  
21 or will need to be, and may include confidential  
22 business information, submitted under the  
23 Commission's confidentiality process, to support the  
24 need for a rulemaking.

25           Staff also plans to undertake outreach and

1 education activities ahead of the effective dates to  
2 ensure that manufacturers are prepared to comply  
3 with the proposed efficiency standards.

4 We also have a Title 20 Call Center to  
5 answer compliance questions.

6 In conclusion, I recommend that the  
7 Commission approves Item 7. I'm happy to answer any  
8 questions that you may have.

9 CHAIRMAN WEISENMILLER: Thank you.

10 Let's first take comments. Let's start  
11 with Charles Kim.

12 MR. KIM: Thank you. I'm Charles Kim of  
13 the Southern California Edison Company. I'm  
14 speaking on behalf of California investor owned  
15 utilities.

16 Southern California Edison has been leading  
17 this advocacy effort since the year 2012 and we are  
18 here today. I'm standing before you, Chair and  
19 Commissioners, with a thankful heart and in support  
20 of proposed energy efficiency regulations on  
21 computers and displays. I'm also standing in front  
22 of incredible industries who started an IT  
23 revolution right here in California.

24 The revolution started with a signal,  
25 blinking cursor on the corner of a screen, sitting

1 on a box. And they are telling the entire world  
2 that this incredible technology would be available  
3 to everyone. We've passed that point, but today we  
4 are ready to send another signal to the entire world  
5 that is IT revolution now comes with minimum energy  
6 efficiency standards that benefits every users by  
7 saving energy, saving natural resources and reducing  
8 greenhouse gas.

9           So I'm very thankful today and standing  
10 here and proposing CEC to adopt this incredible  
11 standard. So I just want to make one more comment  
12 about that signal that we're trying to send today.  
13 That signal has been shaped and reshaped with the  
14 terms and conditions resulting from over two years  
15 of negotiation, which were led by the CEC with the  
16 incredible leadership by Commissioner McAllister and  
17 extraordinary effort put by CEC staff, and I'm very  
18 thankful for that.

19           Therefore, I'm here to honor those terms  
20 and conditions that that are reflected on this  
21 proposed language. And I'm also very hopeful and  
22 confident that industries are going to produce this  
23 incredible machine with the energy efficiency loaded  
24 that is far exceeding minimum standard early --  
25 earlier than the minimum they are the lines that we

1 are proposing today.

2           Maybe this will be my Christmas gift. So I  
3 just want to say thank you CEC, thank you industry,  
4 thank you ITI, for bringing all those members to the  
5 table and to the discussion and to the negotiation.  
6 I also thank NRDC and I also thank all other  
7 stakeholders who made this incredible journey  
8 possible.

9           So once again, thanks so much. And I'm  
10 here once again in full support of adapting proposed  
11 languages for regulating energy efficiency for  
12 computers and displays. Thanks so much.

13           CHAIRMAN WEISENMILLER: Thank you. Thanks  
14 for being here.

15           Alexandria McBride?

16           MS. MCBRIDE: Sure. Good morning Chair and  
17 Commissioner McAllister and other Commissioners,  
18 thank you for having me here this morning.

19           I'm here on behalf of ITI, also known as  
20 Information Technology Industry Council and my name  
21 is Alexandria McBride. I'm here representing ITI  
22 and TechNet and our member companies include the  
23 most productive and innovative technology companies  
24 in the world. Our companies vigorously compete to  
25 offer customers products that meet performance needs

1 and do so while driving energy efficiency products.

2 We're proud of our 20-plus year partnership  
3 with the EPA on ENERGY STAR and with our work with  
4 governments around the world. We are particularly  
5 proud of the work we've been doing with the  
6 Commission and the four-year partnership and  
7 collaboration that we've had in drafting this  
8 historic rulemaking on computers and displays.

9 The regulation meets the goal of reducing  
10 desktop's idle power by 50 percent over five years,  
11 while also allowing our industry to continue to  
12 provide top tier products to our customers in the  
13 California market and beyond. For these reasons,  
14 ITI and Tech Net support the ruling and support the  
15 standard as has been proposed today. Although the  
16 standards and the rulemaking are ambitious, we are  
17 confident that our industry will continue to create  
18 energy efficient technologies and will meet the  
19 requirements stated in the standard.

20 Still there's one important condition of  
21 our support to this rulemaking and that is the  
22 commitment from the CEC staff to ensure all test  
23 procedures are accurate and repeatable. We provided  
24 more detail in our written comments, but in short  
25 the CEC has proposed test procedures for PC systems

1 with automatic brightness control needs improvement.

2 We're extremely encouraged by the initial  
3 discussions we've had with the CEC staff on  
4 correcting the issue in the next few months. And I  
5 would appreciate your dialogue today to reaffirm  
6 your commitment to make these improvements.

7 Again, on behalf of ITI and Tech Net, we  
8 are honored to be part of this process and  
9 particularly thankful to the CEC staff who have been  
10 close partners in the past four years, and delighted  
11 again to share support for this rulemaking. Thank  
12 you.

13 CHAIRMAN WEISENMILLER: Thank you.

14 Let's go to NRDC and I'll see if there's  
15 anyone else then I'll go back to the staff.

16 MR. DELFORGE: Pierre Delforge, with  
17 Natural Resources Defense Council, NRDC. Chair,  
18 Commissioners, I actually remember sitting in this  
19 room on the 31st of August, 2011 -- that was over  
20 five years ago -- presenting on the opportunity to  
21 set standards for computers and monitors. Five  
22 years later thanks to your leadership, your  
23 determination and hard work by yourselves and your  
24 staff we stand close to -- we are reaching the  
25 finish line; perhaps not in record time, but setting

1 other records.

2           These are the first mandatory standards for  
3 computers in the United States. This product  
4 category is perhaps one of the most challenging that  
5 the Commission has ever tackled under Title 20. And  
6 the pace of technology evolution makes it very  
7 challenging to set standards for these products.

8           Despite these challenges the proposed  
9 standards are strong and will lead manufacturers to  
10 adjust their product road maps and to design  
11 significantly more efficient products than they  
12 would otherwise. The standards will result in  
13 significant bill savings consumers and businesses in  
14 California, in cutting carbon pollution, carbon  
15 emissions throughout the state, and beyond the state  
16 borders given the ripple effect that we expect from  
17 these standards across the country and across the  
18 globe.

19           In our comments on the CEC's previous  
20 proposal, and obviously other advocates flag the  
21 risk that major loopholes could develop if features  
22 that are rare today, become common faster than  
23 expected. And the allowances and exemptions for  
24 these features could result in major loss of the  
25 savings. So we really appreciate the Commission



1 addressing this issue by directing staff to conduct  
2 rigorous market monitoring and to propose revisions  
3 to the standards should these major loopholes  
4 develop.

5           While the standards, in our opinion, could  
6 be tighter in some areas such as for high-end and  
7 specialty models we think the Commission's proposal  
8 is a fair compromise. And NRDC is happy to support  
9 adoption of these standards today. However, we do  
10 oppose last-minute amendments, which has on the  
11 auto-brightness control test procedure. And  
12 recommend that any changes be considered in a public  
13 process that allows proper consideration and  
14 stakeholder input on these changes.

15           We urge the Commission to be vigilant in  
16 its market monitoring and to move quickly should any  
17 exemptions and allowances need to be tightened.

18           So in closing NRDC calls for adoption as  
19 proposed, and we look forward to continuing to work  
20 with the Commission to tap into the energy  
21 efficiency potential of plug-in equipment. To  
22 provide some of the cheapest energy savings  
23 available and help achieve California's goal to  
24 double energy efficiency savings by 2030. Thank you  
25 very much.

1           CHAIRMAN WEISENMILLER: Thank you. Thanks  
2 for being here.

3           So first, is there anyone else in the room  
4 or on the line who wants to speak at this time?

5           (No audible response.)

6           If not then I was going to ask the staff if  
7 they have a comment on that one issue, test  
8 procedures.

9           MS. PASHA: Yes, thank you.

10          So ABC is the Automatic Brightness Control.  
11 And basically it changes the screen brightness,  
12 based on the room's ambient light. We specified in  
13 our test procedure that the room ambient light  
14 should be set at 300 lux, which we believe that  
15 reflects a real life setting. However, we received  
16 some comments that these tests may not be accurate  
17 or right. So we may be looking into this change of  
18 the test procedures and see what is more accurately  
19 representing the real world settings.

20          So if we find that we need to change the  
21 test procedures to more accurately reflect a real  
22 world settings, we will do that through future  
23 rulemakings.

24          CHAIRMAN WEISENMILLER: Thank you for that  
25 clarification.

1           Let's transition to the Commissioners,  
2 Commissioner McAllister?

3           COMMISSIONER MCALLISTER:    All right.  
4 Well, a deep breath, just I am incredibly gratified  
5 to be here today. First off, I want to thank staff,  
6 Soheila and Harinder. And in addition, Ken Rider  
7 and also Patrick Saxton, who through a long period  
8 of time -- we've talked about how long this has been  
9 in coming -- actively participated in this as well  
10 as the rest of the Appliances staff and under  
11 Kristen's leadership, Kristen Driskell, sitting back  
12 there. And Dave and Christine who lead the  
13 Division.

14           So I think it's really been a team effort  
15 at the staff level and certainly it has really been  
16 a village. Not just the staff is a very important  
17 key central player here, but all the other  
18 stakeholders are equally valuable members of this  
19 team that it's taken to get to get this thing across  
20 the finish line. And I want to just really call out  
21 industry ITI and all your members who have brought  
22 such class to this process, really. And it has been  
23 a really, just a good faith -- I think it's an  
24 exemplary process that really is leading the  
25 culmination here that we're looking at today.

1           Where really it's been based on a good  
2   faith effort, everybody bringing their knowledge to  
3   the table. We're all feeling like as Californians  
4   and as California companies, many of your members,  
5   and as the advocates, NRDC and the IOUs, who've been  
6   really central also to this process. So I want to  
7   thank all of you.

8           And I think it's a model process, really.  
9   This is a complicated -- I would agree with Pierre  
10  that this is the most complicated category that  
11  we've really worked through. And I remember when I  
12  came in 2012, so I wasn't there for that meeting I  
13  don't think, but when I sat down at the Energy  
14  Commission and we looked at how this process ought  
15  to go, we tried to approach it with as open arms as  
16  possible. And get everybody in the tent because we  
17  knew that we were going to have gaps in  
18  understanding and gaps in maybe vision of where we  
19  were going. And it was very important to pull  
20  everybody together, have that discussion, and reach  
21  some agreement on where we were going. And we did  
22  that.

23           And so there were many convenings over the  
24  years, really, to sit down and work through the  
25  particular issues. Slice and dice the categories

1 and subcategories and look at the allowances. And  
2 you could call it a negotiation, I think, at some  
3 point toward the end, but really it was a team  
4 effort where people were really mostly getting on  
5 the same page. And that I think is critical to a  
6 process that treats a category that's as complicated  
7 as this. And it can be a model for other  
8 categories, you know, electronic devices and smaller  
9 plug loads and home networking devices. There are a  
10 lot of categories of plug loads that are  
11 proliferating and growing in their overall demand.

12 And that is a key area that we need to work  
13 through and deal with as we work towards our climate  
14 goals and our doubling of energy efficiency goals  
15 per SB 350, the Title 20 Appliance Efficiency  
16 Regulations are a key area of savings to reach that  
17 goal. And it's the most complex area of energy  
18 savings too, so I think this is part of a new model  
19 to move forward in a collaborative way. And get  
20 within the regulatory approach that we've  
21 historically use, but sort of modernizing and  
22 updating that.

23 So California is going to be a lot better  
24 place, because of these regulations. There's really  
25 just win-win-win, you could count the wins I think.

1 When you go down the line there's just so many  
2 reasons on so many levels that this is a good thing  
3 for our consumers and our environment. And I think  
4 our industry too, because energy efficiency -- these  
5 products are beautiful things. A cool, high  
6 performing machine is a thing of beauty. And it can  
7 be designed and we have the technology now and it  
8 doesn't cost that much.

9           So the regulations, I think, will result in  
10 really the marketplace reflecting that reality in a  
11 way that if we can do and the marketplace overall  
12 will benefit from.

13           So speaking of the marketplace I want to  
14 just comment on a couple of things. I do agree with  
15 what Pierre said and what staff's approach is. I  
16 think it's very important that we continue to  
17 monitor the marketplace and it's really not just for  
18 this category here. Here we're talking about  
19 computers and monitors, but I think that's another  
20 hallmark of this updated process that we're using.  
21 We need to approach regulations with a very highly  
22 tuned finger on the pulse of the marketplace. And  
23 understand where it's going to that we can have  
24 these productive relationships and conversations  
25 with industry. So again, I think this process has

1    been really a model.

2                   I think we're all palpably aware of the  
3    global nature of the supply chain that industry  
4    works with, and the product development cycles, and  
5    just the complexity of modern manufacturing. I know  
6    that people in Washington and across the country in  
7    other states are looking at this. I think the  
8    implications for the supply chain go even beyond  
9    that.

10                  And we appreciate the complexity of that  
11    endeavor and that's why we've really been open to  
12    working with those realities. And so that industry  
13    can actually produce the product, you know, not have  
14    to go back to the drawing board and waste a lot of  
15    time and money. But actually build it in as we go  
16    achieving energy savings but not disrupting their  
17    process any more than necessary, so I think this  
18    also does that.

19                  I also wanted to thank Legal and I know  
20    Lisa has been very involved in this, (indiscernible)  
21    Legal as well and under Kourtney's leadership very  
22    effective. And I think we've done a great job there  
23    and the Executive Office as well with Rob's  
24    leadership on Appliances generally and certainly on  
25    this rulemaking.

1           And then just I wanted to comment on the  
2 ABC test procedure. You know, test procedures have  
3 to be reliable and repeatable and as Soheila said,  
4 reflect real word conditions wherever possible. So  
5 we're committed to working that out and making sure  
6 that that test procedure is something that's  
7 transparent and everything's accountable and there  
8 are no surprises going down the road. So whatever  
9 that path looks like, we're committed to make that  
10 happen.

11           And again the market modeling, I think  
12 that's really given the product cycles and given the  
13 fast-moving technology, we don't know what the  
14 desktop, what the server or what the monitor even  
15 market is going to look like in three years. Nobody  
16 has that crystal ball. What are consumers going to  
17 prefer, what features? So we need to keep track of  
18 that and make sure that the available savings can be  
19 captured in a reasonable way, by our regulations now  
20 and then in future updates.

21           And so that again that's sort of a tweak on  
22 our process that we're feeling compelled to put into  
23 place around this rulemaking too. And working with  
24 industry again as closely as we can. And all the  
25 stakeholders who are paying attention here. The



1 IOUs have been great partners on this and NRDC  
2 really has been a leader, a thought leader in this  
3 space and very active in the rulemaking as well. So  
4 I think that fact that we have a broad consensus on  
5 just the vast public and private good that we're  
6 creating here, that is called good policy making.

7           So I wanted to put this in a little bit of  
8 context for everybody, because I think it is really  
9 groundbreaking. Looking around this room, there are  
10 100 or so of us here, but this is a big deal. It's  
11 going to save a lot of energy. It is going to put  
12 better products into the marketplace. And it's  
13 going to set an example. And in this day and age I  
14 think California is really out front and center in a  
15 lot of these issues increasingly. And so it can be  
16 done in a way that achieves consensus and in a good  
17 faith team-based approach.

18           So I want to thank everybody again for all  
19 the work. Definitely keeping your sleeves rolled up  
20 for four years is not easy, but in my view it's been  
21 very much worth it. And I think we're getting to a  
22 very, very good place. And I'm looking forward to  
23 seeing the impact that this regulation makes out  
24 there in the market.

25           CHAIRMAN WEISENMILLER: Anybody else want

1 to?

2 COMMISSIONER DOUGLAS: Well, I just wanted  
3 to say briefly, having some insight into how these  
4 processes work, that -- and they do take a long time  
5 and there are always a lot of people involved -- but  
6 I'm just really impressed at how this one has gone.  
7 And I want to thank you, Commissioner McAllister,  
8 and the staff, and certainly all of the stakeholders  
9 and particularly the industry stakeholders, who  
10 really came to the table and helped find ways to get  
11 to yes and make it work.

12 I'm also very pleased with where we have  
13 gotten with this set of standards and appreciate  
14 everybody's contribution.

15 COMMISSIONER SCOTT: I'll just add, as the  
16 Public Member, I'm always cheered when I hear about  
17 the inclusive and robust and positive public  
18 process. So I appreciate you taking the time to do  
19 the leadership on that and all of our stakeholders  
20 for really engaging in a positive way. And just as  
21 Commissioner Douglas working to get to yes.

22 You know, when I was reviewing the  
23 materials and getting my excellent briefing from the  
24 staff on this one, it really is an impressive amount  
25 of savings that we have here in these standards.

1 And I think that we've also built in a nice bit of  
2 flexibility given how fast the market changes to be  
3 able to keep up with that, so I think it's  
4 fantastic. And I just also wanted to say thank you  
5 so much, Commissioner McAllister, for your  
6 leadership on this. Congratulations.

7 COMMISSIONER MCALLISTER: Well, I think not  
8 quite, we haven't voted it out. But there is  
9 actually one stakeholder I'd be remiss if I didn't  
10 mention, which is the Consumer Federation of America  
11 and all their partners. I think have been really  
12 key as well sort of elevate the level of discourse  
13 on this and keep everybody focused on how important  
14 it is and what the benefits are broadly, so they've  
15 been a great partner as well.

16 So any comments from anybody else, yeah?

17 COMMISSIONER HOCHSCHILD: Yeah. No, I just  
18 wanted to pile on, Commissioner McAllister, to thank  
19 you and your staff for working on this. I still  
20 believe Title 20 is the most effective, least  
21 noticed program we're doing, because the impacts --  
22 not just with computers, but with refrigerators and  
23 televisions and plug-in chargers and LEDs are so  
24 substantial, but very much below the radar. And I  
25 think in this new political chapter we're entering,

1 our leadership on this is more important than ever.  
2 So really my congrats to you.

3 CHAIRMAN WEISENMILLER: Yeah, and again I  
4 was going to just agree with everyone's comments  
5 that this is really critical moving forward to  
6 address greenhouse gas challenges. Certainly  
7 computers are part of our lifeblood in California  
8 and using those there's sort of a proliferation.  
9 Every time you turn around there's more and more.  
10 So getting those to be as efficient as they can is  
11 critical. So again thanks.

12 CHAIRMAN WEISENMILLER: I think Charles'  
13 comments at the beginning were right on. We  
14 invented these things. I mean, I know I'm dating  
15 myself, but when Pong was the only thing you did  
16 with computers, that was a long time ago now. And  
17 this is such a California topic. It's so in our  
18 lifeblood, as the Chair said. And I think maybe  
19 that creates a certain amount of ownership on this  
20 issue for all of us, because we're so identified and  
21 it's such a driver to our economy and will continue  
22 to be that innovation.

23 And we absolutely don't want to stifle  
24 that, but at the same time we have a population that  
25 wants a clean environment. They keep voting for it

1 over and over again. We know that our Legislature,  
2 our Governor certainly supports all of this. And so  
3 we have that alignment, which is really kind of a  
4 blessed place to be right now.

5 So anyway with that, I think we have two,  
6 we have "a" and a "b," do we need to do those  
7 separately or do we do both? There's the Negative  
8 Declaration and then there's the Standards.

9 MS. DECARLO: You can do them together if  
10 that's your preference.

11 COMMISSIONER MCALLISTER: Okay. Great, so  
12 if there's no further comment I'll move Item 7.

13 COMMISSIONER HOCHSCHILD: Second.

14 CHAIRMAN WEISENMILLER: All those in favor?  
15 (Ayes.)

16 CHAIRMAN WEISENMILLER: This item passes 5-  
17 0. Thanks. Thanks for being here.

18 We had indicated, before the meeting  
19 started, that we were going to deal with Item 8  
20 right after lunch to give the participants in that  
21 process more of a time certain.

22 So let's skip on to Item 9.

23 MS. PASHA: Hello again Chair and  
24 Commissioners, my name is Soheila Pasha. With me is  
25 Michael Murza from the Commission's Chief Counsel

1 Office.

2 I am here to present Item 9, Proposed  
3 Updates to the Voluntary California Quality LED Lamp  
4 Specification. This will become Version 3.0 of the  
5 Specification.

6 The purpose of the Specification is to  
7 establish high quality levels of performance for LED  
8 light bulbs that are used in general service  
9 applications, meaning where incandescent light bulbs  
10 are typically found such as in your table lamp,  
11 overhead lighting, chandelier, or desktop or task  
12 light.

13 The goal is to promote LED light bulbs that  
14 will match with what consumers expect from their  
15 traditional incandescent lighting and avoid the  
16 early experience that many consumers had with CFLs,  
17 which led to dissatisfaction and low market  
18 adoption. The Specification is used by other  
19 parties, especially the utilities as a basis for  
20 providing rebates for these products.

21 The Energy Commission first published a  
22 Voluntary Specification in December 2012 and updated  
23 it two years later. Both of those versions  
24 essentially aligned with ENERGY STAR's Program,  
25 although they set higher levels for color quality,

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1 dimmability and warranty.

2           For this Updated Specification, staff  
3 proposes that the Commission align with the  
4 mandatory requirements that will take effect on  
5 January 1, 2018 for state-regulated LED lamps under  
6 the Title 20 Appliance Efficiency Standards.

7           The Specification will incentivize early  
8 adoption of these standards. The goal of this is to  
9 help prepare the market ahead of these mandatory  
10 standards and accelerate market transformation  
11 toward LEDs and away from less efficient  
12 incandescent, halogen, and CFL technologies.

13           The proposed update will also cover a  
14 different scope of lamps than those covered under  
15 the previous Specifications. For example,  
16 candelabras with decorative light distributions were  
17 not previously covered under the Specification, but  
18 would be under this update. LED downlight retrofit  
19 kits were covered under previous Specifications, and  
20 continue to be covered under the new version.  
21 However, even lamps that are not covered under the  
22 new Specification may be considered for rebating  
23 under other programs, such as ENERGY STAR.

24           The proposed update makes a number of  
25 changes from the previous specifications in order to

1 align with Title 20.

2           First, it sets a new minimum efficacy  
3 requirement. The level that manufacturers must meet  
4 is determined through a compliance score, which is  
5 based on a calculation of the lamp efficacy and  
6 minimum color-rendering index.

7           Second, the light distribution requirements  
8 are updated for omnidirectional A-lamps to ENERGY  
9 STAR Version 2.0. Decorative lamps must meet ENERGY  
10 STAR Version 1.1. Lamp shapes that are not  
11 addressed do not have to meet light distribution  
12 requirements.

13           Third, while previous specifications were  
14 limited to bulbs with either a 2,700 K or 3,000 K  
15 correlated color temperature, CCT, or warmness, this  
16 proposed update would allow a much wider range of  
17 CCT.

18           Finally, the proposed Specification aligns  
19 its chromaticity, color consistency, and color  
20 metrics with those established in the Title 20  
21 Standards.

22           Under the mandatory Title 20 Standards,  
23 manufacturers must meet a specific minimum efficacy  
24 and CRI level by January 1, 2018, then meet a more  
25 stringent level a year-and-a-half later by July 1,



1 2019. Similarly, the proposed updates to the  
2 voluntary Specification is structured into two  
3 tiers. Light bulbs that are rebated after today's  
4 adoption and before January 1, 2018, must meet the  
5 Tier 1 Title 20 levels, while lamps manufactured on  
6 or after January 1, 2018 will need to meet the Tier  
7 2 levels. This is to encourage early adoption of  
8 the Title 20 standards.

9           This timing may mean that some phased-in  
10 implementation between the previous specification  
11 and this new one is necessary to ensure that there  
12 is no gap in rebates offered, and staff supports  
13 this kind of phased-in implementation.

14           Staff provided a 30-day comment period on  
15 the specification and received a number of comments.  
16 The report before you today makes minor  
17 modifications and clarifications in response to some  
18 of these comments, including one that clarifies  
19 reporting requirements for light bulbs that may  
20 still be undergoing testing using the new federal  
21 test procedures in order to ensure a smooth  
22 transition to that new test procedure.

23           However, staff does not recommend any  
24 changes where comments merely disagreed with the  
25 underlying Title 20 Appliance Efficiency

1 Regulations, such as disagreeing with the standby  
2 power limit for connected LED lamps.

3 In conclusion, I recommend that the  
4 Commission approves Item 9. I am happy to answer  
5 any questions.

6 CHAIRMAN WEISENMILLER: Thank you.

7 Let's start with public comments from those  
8 in the room, PG&E?

9 MR. OLINEK: Spencer Olinek, Pacific Gas  
10 and Electric. I just wanted to come up and thank  
11 the Commission and staff for their hard work on this  
12 effort.

13 PG&E supports the adoption of update to  
14 Specification 3.0. We appreciate the time and  
15 resources that Commission staff has invested in  
16 revising the Specification to sync with the evolving  
17 LED replacement lamp market. We hope that programs  
18 emerging from this revision further encourage  
19 customer investment in high quality LED lighting  
20 products replacing remaining inefficient or  
21 undesirable predecessor technologies.

22 The CEC, CPUC and IOUs share a common  
23 vision to promote energy efficient and high-quality  
24 LED products. The Upstream Lighting Program  
25 incentivizes qualifying LED products to avoid the

1 customer satisfaction issues that effectively capped  
2 CFL saturation near 30 percent. If the Upstream  
3 Lighting Program pushes manufacturers towards high  
4 quality products, customer satisfaction with LEDs  
5 should accelerate industry transformation.

6           Additionally, and specifically, PG&E  
7 appreciates the inclusion of language in Chapter 2  
8 pointing to development of programs to include  
9 products that are not covered by the specification.  
10 We hope to support the upcoming effective date of  
11 the Small Diameter Directional Lamps Rulemaking by  
12 proposing programs for this product category as  
13 well. Thank you.

14           CHAIRMAN WEISENMILLER: Thank you.

15           Anyone else in the room or on the line who  
16 has comments on this item?

17           (No audible response.)

18           Okay. So let's transition to the  
19 Commissioners, Commissioner McAllister?

20           COMMISSIONER MCALLISTER: Yeah, so another  
21 -- it's really great to have these long efforts come  
22 to fruition and be able to talk about them a little  
23 bit at a Business Meeting. I'll try to be briefer  
24 than the last one. But the LED marketplace, as you  
25 all know, is incredibly dynamic. I mean it's moving

1 every day and it's providing a lot of products that  
2 do just incredible things.

3           The incandescent replacement market and the  
4 CFL replacement market are just the bread and butter  
5 of lighting. And this Specification -- I don't want  
6 to repeat what Soheila said -- but we're trying to  
7 have everyone kind of on the -- for that massive  
8 market -- kind of row in the same direction. And so  
9 that's why it makes sense to sort of utilize the  
10 voluntary spec as a preamble to the long-term  
11 mandatory spec. And so aligning those two just made  
12 a lot of sense, which is not to say that there  
13 aren't lots of other interesting submarkets that  
14 LEDs can provide great service to. That's  
15 absolutely the case.

16           But the bulk market -- we need to get rid  
17 of the under-performing lamps. I just did in my own  
18 house, just an anecdote, in a new house replaced a  
19 whole bunch of lamps. And it's literally night and  
20 day between just between what was there, the  
21 incumbent technology, the residual technology and  
22 something new that performs. It's just  
23 unbelievable.

24           And the products on the marketplace are  
25 moving in a great direction. And this is a little

1 push that hopefully the IOUs can use or the market  
2 can sort of embrace to push that innovation a little  
3 bit faster and push that development a little bit  
4 faster, so that's the idea. So that's kind of the  
5 rational for aligning with Title 20.

6 So anyway thanks to Soheila and Kristin and  
7 Leah. The report, I think again Peter Strait has  
8 provided a lot of leadership over the years in this  
9 area, and certainly on this report. Pat Saxton, who  
10 was my former advisor went back to the Appliances  
11 Office and you're not at the Division yet, Kristen,  
12 sorry -- and Kristin and Leah's as leadership as  
13 well. So again a team effort that's heading in a  
14 really good direction.

15 So with that I'll -- any other comments?  
16 No, okay. Great, and this is Item 9, right?

17 COMMISSIONER DOUGLAS: Uh-huh.

18 COMMISSIONER MCALLISTER: Okay. I'll move  
19 Item 9.

20 COMMISSIONER DOUGLAS: Second.

21 CHAIRMAN WEISENMILLER: All those in favor?  
22 (Ayes.)

23 CHAIRMAN WEISENMILLER: Item 9 passes 5-0.

24 Thanks.

25 Let's go on to Item 10, ConSol Home Energy

1 Efficiency Rating Services, CHEERS.

2 MS. CHAN: Good morning Chairman and  
3 Commissioners, I'm Suzie Chan of the Existing  
4 Building and Compliance Office in the Efficiency  
5 Division. I am here to present for your  
6 consideration ConSol Home Energy Efficiency Rating  
7 Services, or CHEERS, to be approved as a Home Energy  
8 Rating System or HERS Provider.

9 Upon approval, CHEERS would be able to  
10 oversee and train HERS Raters conducting field  
11 verification and diagnostic testing to verify  
12 compliance with the requirements of the 2016  
13 Building Energy Efficiency Standards for Residential  
14 Buildings and CHEERS HERS Data Registry as a  
15 residential data registry, as required by the 2016  
16 Standards.

17 Staff reviewed CHEERS' application  
18 including its updated training materials and  
19 concluded it meets the requirements of the 2016  
20 Standards and the HERS Regulations. Staff also  
21 tested and validates CHEERS HERS Data Registry meets  
22 compliance with Section 10-109(i) and Joint  
23 Reference Appendix JA7 of the 2016 Standards.

24 Based on this information, staff asks for  
25 you to confirm the Executive Director's findings and

1 adopt his recommendations to certify CHEERS as a  
2 HERS Provider for field verification and diagnostic  
3 testing as required by the 2016 Standards for  
4 residential buildings and certify the CHEERS HERS  
5 Data Registry as a residential data registry as  
6 required by the 2016 Standards.

7           The Executive Director's recommendation was  
8 posted on the website and made available for public  
9 comment on November 18, 2016. The approval of  
10 CHEERS as a HERS Provider will satisfy the  
11 requirements of Title 24, Part 6 where HERS field  
12 verification and diagnostic testing is required for  
13 compliance with the 2016 Standards, which will go  
14 into effect January 1st, 2017.

15           The Efficiency Lead Commissioner has  
16 reviewed this item. Thank you for your  
17 consideration and I am available to answer questions  
18 and staff from CHEERS is also here to answer  
19 questions. Thank you.

20           CHAIRMAN WEISENMILLER: Great, thank you.

21           Let's start with Mike Hodgson. Please come  
22 on up, the Applicant.

23           MR. HODGSON: Good morning and Happy  
24 Holidays, Commissioners. I'm Mike Hodgson,  
25 Principal at CHEERS. Jay Lenzmeier, who is the

1 Executive Director is under the weather today, and  
2 cannot attend. Jay and I would like to express our  
3 support for the approval of CHEERS for the 2016  
4 Building Energy Efficiency Standards for Residential  
5 Buildings. And we'd like to express our sincere  
6 thanks to CEC staff Bill Dietrich, Suzie Chan,  
7 Rashid Mir and Tav Commins, and the management team  
8 for expediting our approval.

9 I'm here to answer any questions and wish  
10 you a happy Christmas.

11 CHAIRMAN WEISENMILLER: Thank you.

12 First, is there anyone else in the room or  
13 on the line who has comments on this item?

14 (No audible response.)

15 Okay. So let's transition to Commissioner  
16 McAllister again.

17 COMMISSIONER MCALLISTER: Great, so Mike  
18 thanks for your leadership in this space. This is  
19 one aspect of it, but I think it's a good  
20 accomplishment here to have a second provider. So  
21 that's great, so thanks for pushing this forward.

22 Thanks to staff for working on this and  
23 then bringing this before us.

24 And it's kind of an appropriate moment to  
25 have a little reminder, now that we're almost at the



1 end of the year, that the 2016 Standards are about  
2 to come into effect. January 1st, 2016 the Building  
3 Efficiency Standards take effect, so they will be  
4 the law of the land. There's been transition  
5 happening for a while now and I think the  
6 marketplace is very ready for it. And I'm very  
7 proud to say that. I'm very happy to say that,  
8 because that's been the plan and I think the  
9 execution from staff for this update has been great.

10 And I want to thank Dave and Christine all  
11 for that, in setting the tone that we're getting  
12 this done and there are a lot of steps to get the  
13 Building Efficiency Standards ready for  
14 implementation in the marketplace. Having the  
15 providers there, that have been approved for this  
16 cycle, is one the key things. And so again I want  
17 to thank Mike for getting that done in time for the  
18 effective date and for staff for helping achieve  
19 that.

20 But just to be clear, I'm going to rattle  
21 off a few steps here that we've gone through over  
22 the last year just to remind everybody what an  
23 endeavor this is. So we needed the software, the  
24 CBECC-Res and Com modeling software to enable  
25 buildings to comply, to see whether they comply, and

1 then comply.

2           That then needs compliance manuals. Each  
3 one of those needs compliance manuals for the whole  
4 package, the reference manuals to back up the  
5 compliance manuals. These are quite involved  
6 documents with a lot of stakeholders involved and a  
7 lot of detail. And then those of you who are in  
8 this space know how much detail.

9           Certainly going forward we're looking for  
10 places, particularly in existing buildings, where we  
11 can make the Code easier to navigate or more  
12 straightforward to navigate. And we are working  
13 with lots of stakeholders on that including building  
14 departments all across the state. I'm very  
15 optimistic about how that can help us in the 2019  
16 cycle and just going forward.

17           But we, middle of the year I think we  
18 adopted or we released an earlier adopter guidance  
19 for the new Code Update, so the market could get  
20 ready for it and start using it, start anticipating  
21 it for this January 1. We had some ordinances at  
22 local governments that came forward and adopted it  
23 ahead of time. So San Mateo and Palo Alto, among a  
24 lot of other stretch codes that we've been working  
25 through with local governments, which are a really

1 key thing for them to reach their goals and  
2 therefore for the state to reach our goals.

3           The Outreach and Education is something  
4 that I can't say enough wonderful things about.  
5 Chris Olvera and his team have just been so  
6 accessible. They've been doing almost a continual  
7 road show to go around the state and help people  
8 understand the Standards. The hotline that we man,  
9 that we staff, just gets a lot of calls and make  
10 about a really high quality service. They are open  
11 for business and ready for questions, so definitely  
12 use that resource.

13           We had CalCERTS approved as a provider and  
14 now CHEERS, so the providerships are ready to go and  
15 training people. And then the ATTCPs for Lighting  
16 and Mechanical, which are commercial, for the most  
17 part, focusing on commercial and multifamily. But  
18 we have providers there. We haven't hit the  
19 thresholds yet, but we have providers ready for  
20 those as well. Actually, I guess the lighting  
21 threshold has been met and the program is actually a  
22 requirement, but the mechanical is still not quite  
23 there. But we have providers that are open for  
24 business, training people and ready to go.

25           And so all of those conditions, when we

1 pass a regulation, it affects the marketplace. And  
2 I think an acknowledgement of that is that we put  
3 the resources in place in a timely way to help the  
4 marketplace and avoid a stumble when the new regs  
5 come into place.

6 And I just want to really congratulate  
7 staff for getting this done and just everyone  
8 evolved on the really does the Standards Development  
9 Office and the implementation team, where this is  
10 again another thing that takes literally a village.  
11 I think this is probably the biggest set of people  
12 involved in almost anything we do in the Division.  
13 So it's a big accomplishment.

14 And I'm very hopeful that we've built a  
15 solid foundation for the 2016 Standards that we can  
16 really build on in the 2019 when we're trying to go  
17 even further. So I want to just thank staff again  
18 and in this case you, Mike, and all your efforts  
19 too.

20 So with that, any other comments?

21 COMMISSIONER DOUGLAS: Just a brief comment  
22 again, like the other items. It's a big day for  
23 Efficiency I think, at this Business Meeting. And I  
24 just want to congratulate you and the staff for your  
25 good work.

1 COMMISSIONER MCALLISTER: Okay, so I will  
2 move Item 10.

3 COMMISSIONER DOUGLAS: Second.

4 CHAIRMAN WEISENMILLER: All those in favor?

5 (Ayes.)

6 CHAIRMAN WEISENMILLER: Item 10 passes 5-0.

7 Thank you.

8 Let's go on to Item 11.

9 MR. GARCIA: Good morning, Commissioners,  
10 Chair Weisenmiller. Good morning, my name is Cary  
11 Garcia. I'm the Lead Forecaster for the Demand  
12 Analysis Office. Today I'm submitting a proposed  
13 resolution to adopt the Forms and Instructions for  
14 Submitting Electricity Demand Forecasts prepared in  
15 support of the 2017 Integrated Energy Policy Report.

16 As we know, Public Resource Code 25310(a)  
17 directs the California Energy Commission to,  
18 "conduct assessments and forecasts of all aspects of  
19 energy industry supply, production, transportation,  
20 delivery and distribution, demand, and prices."  
21 Furthermore, we are directed to "use these  
22 assessments and forecasts to develop energy policies  
23 that conserve resources, protect the environment,  
24 ensure energy reliability, enhance the state's  
25 economy, and protect public health and safety."

1           For this iteration of the Demand Forms and  
2 Instructions, we are asking load-serving entities to  
3 provide the Energy Commission with load data,  
4 economic/demographic information, demand-side  
5 management impacts, and other data related to energy  
6 demand for the historical years 2015-2016 and the  
7 forecast horizon through 2028.

8           Aside from the updated forecast horizon, we  
9 have included a request for commercial load-shape  
10 data mapped to our 20 forecast zones supporting  
11 continued improvements in forecast disaggregation  
12 and distributed generation modeling. In addition,  
13 we have updated our data request for Community  
14 Choice Aggregators for requesting cost data as well  
15 as more comprehensive forecast documentation to  
16 improve our assessments of energy efficiency  
17 programs, distributed resources, or any additional  
18 programs or technologies that may impact long-term  
19 forecasts of electricity demand in areas served by  
20 these entities.

21           A public workshop was held on October 13th  
22 to present the draft version of the forms and public  
23 comment has been incorporated as appropriate.

24           In closing, staff recommendations that the  
25 Energy Commission adopt the proposed resolution for

1 Submitting Electricity Demand Forecasts prepared in  
2 support of the 2017 Integrated Energy Policy Report.

3 If you have any questions I'll be more than  
4 helpful to answer.

5 CHAIRMAN WEISENMILLER: Great. Thank you.

6 First, is there any comments from anyone in  
7 the room or on the line?

8 (No audible response.)

9 Okay. So then let's transition to  
10 Commissioners. The Lead in this area, I can say  
11 that obviously our forecast is really pivotal for  
12 the state in terms of trying to understand needs  
13 going forward. It's used as the basis for planning  
14 by the other state agencies. And at the same time  
15 the demands on it are increasing every year,  
16 particularly as we're trying to capture more  
17 granularity and location at the same time capturing  
18 more what's going on behind the meter. So and  
19 particularly now with the requirement to really  
20 double down on energy efficiency.

21 Next year is going to be really pivotal in  
22 terms of starting to get the data in place to go  
23 forward. Ultimately, over time -- I assume again  
24 this is going to be a multi-year process to get to  
25 where we need to get to -- but next year is a really

1 important first step on this effort.

2 So again I certainly thank the staff for  
3 their hard work on this. Anyone else?

4 COMMISSIONER SCOTT: I'll move approval of  
5 Item 11.

6 COMMISSIONER DOUGLAS: Second.

7 CHAIRMAN WEISENMILLER: All those in favor?

8 (Ayes.)

9 CHAIRMAN WEISENMILLER: So this passes 5-0.  
10 Thanks.

11 MR. GARCIA: All right, thank you.

12 CHAIRMAN WEISENMILLER: Let's go on to 12.

13 I was going to say we're moving a little bit faster  
14 than we had been anticipating, but again we will  
15 take up Item 8 right after lunch. We wanted to give  
16 it a time certain and at this point that will be  
17 1:00 o'clock.

18 So go ahead.

19 MR. HINGTGEN: Good morning, Commissioners,  
20 my name is John Hingtgen. I work in the Energy  
21 Assessments Division.

22 Every two years the Commission produces  
23 Assessments and Forecasts of Energy Supply. To make  
24 these assessments, the Commission requires load-  
25 serving entities to submit resource supply data and



1 forecasts. Authority to collect this data is based  
2 on Public Resources Code 25301(a).

3 Staff prepared draft resource forms and  
4 held a workshop on October 13th this year to present  
5 the forms to utilities. The comment period was open  
6 until October 27th and no comments were received.

7 Since the last cycle, staff updated the  
8 data collection in several ways. Cover letters and  
9 transmittal emails are no longer necessary. Filings  
10 now use the eFiling system, including confidential  
11 filings. Docketed filings with confidential data  
12 will be reviewed by an attorney. When new  
13 confidential information is similar to previous  
14 information, filers may submit a statement to this  
15 effect and they need not file a new application for  
16 confidentiality.

17 The draft 2017 Resource Forms have the  
18 following updates. The instruction sets for  
19 describing capacity and energy have been combined.  
20 Contracts are now reported on one sheet and  
21 categories have been modified to clarify status.  
22 Instructions are included to ensure consistent use  
23 of data formats.

24 The due dates to file the resource forms  
25 will be as follows: April 21st, 2017 for other than

1 investor owned utilities and April 28th for investor  
2 owned utilities.

3 The Northern California Power Agency is  
4 being requested to file forms on behalf of 10 load-  
5 serving members of the NCPA power pool. On the  
6 advice of Counsel, staff recommends adding a  
7 statement to the instructions listing the member  
8 entities for which NCPA should file data.

9 Approval of the draft forms would allow  
10 staff to prepare final forms and issue them for  
11 reporting data. This would result in the timely  
12 collection of resource data for incorporation in the  
13 2017 IEPR. And staff recommends approval.

14 CHAIRMAN WEISENMILLER: Thank you.

15 First, is there any comments from anyone in  
16 the room or on the line?

17 (No audible response.)

18 And again, transition to the Commissioners.

19 And this is going to be a -- obviously,  
20 there's both a demand and supply side and a supply  
21 side -- so trying to put in place this part of the  
22 puzzle is going to be an important piece of moving  
23 forward on the next IEPR. So again, I think this is  
24 certainly very important as the next one of the  
25 steps we're going to -- one of the building blocks

1 we're going to need for the 2017 IEPR.

2 So thanks, staff, for the hard work.

3 COMMISSIONER MCALLISTER: I just want to

4 say I'm feeling pretty optimistic about all the

5 different fronts we've got going on in coordination

6 at the moment. We have to be vigilant, but there

7 are so many different fronts in this overall

8 strategy to put the conditions in place to really by

9 in 2017, and then particularly in sort of all guns

10 blazing there in 2019, in terms of having everything

11 in place.

12 But I want to thank you for your leadership

13 in making sure all of these different threads are

14 being woven together in a way that makes sense.

15 CHAIRMAN WEISENMILLER: It's certainly

16 challenging, but a good opportunity for the state.

17 COMMISSIONER MCALLISTER: So I'll -- oh,

18 any other comments? No. Okay, I'll move Item 12.

19 COMMISSIONER DOUGLAS: Second.

20 CHAIRMAN WEISENMILLER: All those in favor?

21 (Ayes.)

22 CHAIRMAN WEISENMILLER: This item also

23 passes 5-0.

24 So let's go to Item 13.

25 MR. GATES: Good afternoon, my name is

1 Thomas Gates. I'm the Supervisor of the Cultural  
2 Resources Unit of the Siting Transmission and  
3 Environmental Protection Division.

4 The Genesis Solar Energy Project, project  
5 number 09-AFC-08, sited in the Chuckwalla Valley,  
6 Riverside County was licensed by the Energy  
7 Commission in September 2010. During project  
8 construction in 2011, an archeological cite  
9 discovery was made by cultural resources and Native  
10 American project monitors.

11 It was determined that cite avoidance was  
12 not feasible and therefore the ensuing damage to the  
13 archeological site was mitigated through  
14 compensation. The mitigation package was negotiated  
15 among the Project Owner, the Bureau of Land  
16 Management and Energy Commission staff and in  
17 consultation with 16 culturally affiliated tribes.

18 The mitigation package, totaling \$3.04  
19 million involved three broad categories of  
20 compensatory mitigation activities: archeological,  
21 ethnographic and public outreach.

22 It was also agreed between the two  
23 licensing agencies that the archeological mitigation  
24 would be overseen by both agencies, but that the  
25 ethnographic mitigation would be overseen by the

1 Bureau of Land Management. And that the Energy  
2 Commission staff would oversee the public outreach  
3 mitigation.

4 Tribes were included in the mitigation  
5 negotiation and implementation, via a tribal working  
6 group that met on a quarterly basis and deliberated  
7 on the three categories of mitigation and  
8 particularly the public outreach component. As the  
9 various public outreach mitigation pieces moved  
10 toward completion, two pieces languished. As the  
11 result of tribal agency working group deliberation,  
12 the languishing mitigations were transferred to the  
13 Energy Commission, via an Energy Commission and  
14 NextEra set of correspondences. Funds were  
15 transferred from NextEra to the Energy Commission in  
16 November 2015.

17 In August, 2016 the Commission authorized  
18 staff to enter into contract with the California  
19 State University Chico State Research Foundation to  
20 produce a 26-minute documentary that highlights the  
21 rich cultural heritage of the Ford Dry Lake area and  
22 the relationship of current tribes to that heritage.

23 The contract before the Commission today  
24 would move the public outreach mitigation further  
25 towards completion by providing energy developers,

1 agency personnel, tribal government staff, and the  
2 public with a document that explains the renewable  
3 energy compliance processes, case examples, and  
4 tribal perceptions of the renewable energy processes  
5 including facility citing, amendment, construction  
6 and mitigation concepts as relates to cultural  
7 resources identification, assessment, discovery and  
8 mitigation.

9           Staff requests that the Commission pass the  
10 proposed resolution approving Agreement 700-16-001  
11 with Douglas Deur, PhD, LLC, for a \$225,851 contract  
12 to produce a report that provides technical  
13 information, complimenting the video production, to  
14 be conducted by Chico State, but that focuses on  
15 energy facility citing processes as relates to  
16 cultural resources and related Native American  
17 heritage values. And I'm available for any  
18 questions.

19           CHAIRMAN WEISENMILLER: Thank you. Is  
20 there anyone in the room or on the line who has  
21 comments on this item?

22           (No audible response.)

23           And again, let's transition to the  
24 Commissioners. Commissioner Douglas?

25           COMMISSIONER DOUGLAS: I just want to say

1 this is an important contract. We really need to be  
2 able to move forward and complete this work. And as  
3 Tom alluded to, there have been a lot of work that's  
4 been done under the mitigation for this project.  
5 There have been a large number of tribes very  
6 involved and we really -- it's really important to  
7 see this work through. And so getting this contract  
8 in place is critical in doing that. So I just  
9 wanted to thank Tom and the staff who work with him  
10 on their efforts and I'll look forward to supporting  
11 this.

12 In fact, if there are no other comments,  
13 I'll move approval on this item.

14 COMMISSIONER SCOTT: Second.

15 CHAIRMAN WEISENMILLER: All those in favor?  
16 (Ayes.)

17 CHAIRMAN WEISENMILLER: This passes 5-0.

18 Okay. We'll do one last item and then go.  
19 So number 14. Please go ahead. Yeah, why don't you  
20 come forward and then after this item we're going to  
21 go for lunch.

22 MR. CHAUDHRY: Okay, thank you so much.

23 CHAIRMAN WEISENMILLER: Sure.

24 MR. CHAUDHRY: Good morning, Commissioners.

25 I'm Shahid Chaudhry with the Local Assistance and

1     Financing Office of the Energy Efficiency Division.

2                     I am here to request your approval for a  
3     \$136,000 ECAA loan at 1 percent to the North Net  
4     Training Authority. North Net Training Authority is  
5     a joint powers agency created by the cities of  
6     Anaheim, Garden Grove, and Orange; and provides  
7     training to firefighters.

8                     The Authority will use the ECAA loan to  
9     make an existing HVAC system energy efficient by  
10    replacing air handling units and installing a new  
11    control system. Upon completion, the project will  
12    reduce about 46,000 kilowatt hours of grid  
13    electricity consumption annually saving the  
14    Authority estimated \$8,000 in utility costs. In  
15    addition, the project will reduce about 15.8 tons of  
16    carbon dioxide equivalent greenhouse gas emissions  
17    every year.

18                    Based on the loan amount and utility cost  
19    saving, the simple payback is approximately 17  
20    years. The loan request is in compliance with the  
21    terms and conditions of the ECAA Loan Program;  
22    staff, therefore requests your approval of this  
23    loan.

24                    CHAIRMAN WEISENMILLER: Thank you.

25                    First, any comments from anyone in the room



1 or on the line?

2 (No audible response.)

3 CHAIRMAN WEISENMILLER: Okay, then we'll  
4 transition to Commissioner McAllister.

5 COMMISSIONER MCALLISTER: Yeah, just  
6 quickly. This is the kind of project that is hard  
7 to do without this kind of support. It's a  
8 relatively long payback, relatively capital  
9 intensive, and takes good planning and takes good  
10 execution to really realize those savings. And I  
11 think this is an area where ECCA really makes a big  
12 difference. It's good for everything, lighting and  
13 renewables and everything, but I think those longer  
14 lived, longer payback retrofits and upgrades, are  
15 really key for us meeting our goals. And ECCA's a  
16 great place for public entities to come, so I'm very  
17 supportive of this project.

18 MR. CHAUDHRY: Thank you, Commissioners.

19 COMMISSIONER MCALLISTER: So any other  
20 comments? No, so I'll move Item 14.

21 COMMISSIONER SCOTT: Second.

22 CHAIRMAN WEISENMILLER: All those in favor?

23 (Ayes.)

24 CHAIRMAN WEISENMILLER: This item, Item 14  
25 also passes 5-0. Thank you.

1                   MR. CHAUDHRY: Thank you so much,  
2 Commissioners.

3                   CHAIRMAN WEISENMILLER: Okay. So we're  
4 going to break for lunch now. We'll be back at  
5 exactly 1:00 to take up Item 8. Thanks.

6                   (Off the record at 11:55 a.m.)

7                   (Back on the record at 1:03 p.m.)

8                   CHAIRMAN WEISENMILLER: Commissioner  
9 McAllister said he was going to be a little bit  
10 late, but in the interest of being timely start the  
11 staff presentation on Item 8.

12                  MS. MATHEWS: Good afternoon Chair and  
13 Commissioners, I'm Alana Mathews, the Public  
14 Adviser. And I'm pleased to present for your  
15 adoption today the Low-Income Barriers Study, Part A  
16 Overcoming Barriers -- oh, I should do this first,  
17 let me pull up the presentation.

18                  I'm pleased to present for your adoption  
19 today the Low-Income Barriers Study, Part A  
20 Overcoming Barriers to Energy Efficiency and  
21 Renewables for Low-Income Residents and Small  
22 Business Contracting Opportunities in Disadvantaged  
23 Communities.

24                  As you are aware this study was prepared in  
25 accordance with the mandates of the Clean Energy and

1 Pollution Reduction Act of 2015, also known as SB  
2 350, which Governor Brown signed into law on October  
3 of last year.

4 In addition to establishing new energy  
5 efficiency and renewable energy targets SB 350  
6 directed the Energy Commission to complete a study  
7 on the barriers to, and opportunities for, low-  
8 income customers increased access to renewable  
9 energy and energy efficiency in weatherization  
10 investments as well as clean energy contracting  
11 opportunities for small businesses and disadvantaged  
12 communities.

13 SB 350 also directed the California Air  
14 Resources Board to complete a companion study, the  
15 Low-Income Barrier Study, Part B, which addresses  
16 the barriers low-income customers face to clean  
17 transportation. We have worked closely with the Air  
18 Resources Board and Ashley Dunn, the lead for their  
19 companion study. Ashley is present today and will  
20 share more about our coordination efforts and  
21 provide an update on their companion study.

22 In this presentation today I will cover  
23 five topics: the process, the barriers, the  
24 recommendations, our acknowledgements and next steps  
25 for the Barrier Study. So let's begin with an

1 overview of the process for completing this study.

2           The three informational pillars, which  
3 informed this study included a literature review,  
4 targeted outreach through community meetings across  
5 the state, and public workshops.

6           First, the Energy Commission performed a  
7 literature review of more than 100 available studies  
8 on the topic areas identified in the statute.

9           Second, the Energy Commission and staff  
10 participated in a series of meetings across  
11 California led by community-based organizations.  
12 Seven community meetings were held in locations  
13 reflecting the regional and demographic diversity of  
14 the state, which included East Los Angeles, Fresno,  
15 Riverside, Oakland, Truckee, South Lake Tahoe,  
16 Ukiah, and Los Angeles. In total, 158 members of  
17 the public participated in these meetings, which  
18 allowed an opportunity for them to speak about their  
19 experiences with renewable energy, energy efficiency  
20 and weatherization programs.

21           Third, the Energy Commission hosted public  
22 technical workshops for public agencies, the  
23 utilities, industry representatives, and  
24 environmental justice and equity advocates to share  
25 their expertise on barriers and solutions to clean

1 energy for low-income customers.

2           Through this process staff identified the  
3 key barriers facing low-income customers, which are  
4 categorized in the study into the following three  
5 sections. Structural barriers limiting access to  
6 clean energy for low-income customers, policy and  
7 program barriers limiting access to clean energy for  
8 low-income customers, and local small-business  
9 challenges and opportunities in disadvantaged  
10 communities.

11           Structural barriers are just that,  
12 structural, inherent to the conditions of poverty in  
13 California. These barriers may be mitigated, but  
14 are difficult to eradicate. Structural barriers  
15 limiting access to clean energy for low-income  
16 customers include low home-ownership rate, complex  
17 needs, ownership, and financial arrangements for  
18 low-income multifamily housing residents,  
19 insufficient access to capital, building age, remote  
20 and underserved communities.

21           Program and policy barriers are barriers  
22 that stem from policy and program decisions and they  
23 may be overcome through new policy development or  
24 program refinements. There are several policy and  
25 program barriers limiting low-income customers'

1 access to energy efficiency and renewable energy.  
2 These challenges relate to market delivery, program  
3 integration, data limitations and unrecognized non-  
4 energy benefits. I have highlighted program  
5 integration, because it should be noted for  
6 clarification that within this section of the study,  
7 in Chapter 4 on page 56, there's a reference to  
8 Assembly Bill 327. And that reference pertains to  
9 IOU residential customers. Appropriate language has  
10 been added in the study to reflect this distinction.

11 Small business and small business  
12 challenges for opportunities in disadvantaged  
13 communities are unique. They include contracting  
14 opportunities with state government. Available  
15 statistical information indicates thousands of small  
16 businesses are in zip codes with disadvantaged  
17 communities. Barriers to expanding small-business  
18 contracting opportunities include lack of access to  
19 information on small businesses in disadvantaged  
20 communities, technical assistance and workforce  
21 development needs, financial obstacles which is a  
22 lack of access to capital, and a lack of access to  
23 support and opportunities where there is a greater  
24 need for access to administership, networking and  
25 subcontracting opportunities for small businesses.

1           Focusing on the recommendation, the study  
2 concludes with several recommendations with three  
3 goals in mind: offer scalable sustainable solutions,  
4 address low-income customers inability to access  
5 traditional financing mechanisms available to most  
6 Californians, and lastly help maximize public  
7 investments to achieve our state's clean energy  
8 goals.

9           The study identifies the following five  
10 principal recommendations to promote a coherent  
11 vision for low-income clean energy programs, explore  
12 innovative solutions to expanding access, and ensure  
13 the economic benefits of public investments are  
14 realized by low-income customers and disadvantaged  
15 communities.

16           These recommendations are as follows: the  
17 state should establish a task force to facilitate  
18 coordination of all state agencies administering  
19 energy, water resilience, housing and low-admissions  
20 transportation infrastructural programs for low-  
21 income customers and disadvantaged communities. The  
22 state should act to enable the economic advantages  
23 of community solar to be readily accessible to low-  
24 income and disadvantaged populations across  
25 California.

1           The Energy Commission, the California  
2   Public Utilities Commission, and the California  
3   Department of Community Services and Development  
4   should partner with the California Labor and  
5   Workforce Agency, and workforce investment boards,  
6   community colleges and other agencies. As well as  
7   consult with employers, the UC Berkeley Labor Center  
8   and relevant trade unions and community-based  
9   organizations to strategize and track progress of  
10   workforce community and clean energy goals.

11           The state should continue developing a  
12   series of energy upgrade financing pilot programs to  
13   evaluate a variety of models to improve access and  
14   participation of programs serving low-income  
15   customers. The Legislature should also require  
16   collaboration among all program delivery agencies to  
17   establish common metrics, and collect and use data  
18   systematically across programs to increase the  
19   performance of these programs to increase the  
20   performance of these programs in low-income and  
21   disadvantaged communities.

22           COMMISSIONER HOCHSCHILD: I appreciate the  
23   mood lighting, but I think someone may have been  
24   leaning against the light switch somewhere? Okay.  
25   There it goes, thanks.



1           MS. MATHEWS: The report recommends seven  
2 additional strategies to address the barriers  
3 identified in this study and compliment the  
4 principal recommendations provided above.

5           The Legislature should expand opportunities  
6 for low-income and disadvantaged communities to use  
7 photovoltaic and solar-thermal technologies. The  
8 California Tax Credit Allocation Committee should  
9 consider enhancing their priority of affordable  
10 housing tax credits as well as the California  
11 Alternative Energy and Advanced Transportation  
12 Financing Authority should consider providing  
13 financial assistance such as credits enhancement to  
14 support energy efficiency and renewable energy  
15 improvements.

16           The state, in consultation with the Energy  
17 Commission, the CPUC, the Air Resources Board, and  
18 the Department of Community Services and  
19 Development, and other related state and local  
20 agencies, should establish a pilot program for  
21 multiple regional one-stop shops to provide  
22 technical assistance, targeted outreach and funding  
23 service to enable owners and tenants of low-income  
24 housing across California to implement clean air  
25 energy upgrades.

1           The state in coordination with local  
2 authorities and consumer protection agencies, should  
3 investigate the need for heightened consumer  
4 protections to help prosecute companies that use  
5 misleading information or engage in predatory  
6 practices.

7           The Legislature should direct funding for  
8 all state programs to collaborate with trusted and  
9 qualified community-based organizations in  
10 community-centric delivery of clean energy programs.  
11 The Energy Commission and the CPUC should direct  
12 research development, demonstration and market  
13 facilitation programs to include targeted benefits  
14 for low-income customers and disadvantaged  
15 communities.

16           And lastly, the state should conduct an in-  
17 depth data-driven study in consultation with local  
18 business chambers, community-based organizations,  
19 technical assistance providers, and small businesses  
20 to determine actions for increasing contracting  
21 opportunities for small businesses in low-income and  
22 disadvantaged communities.

23           Lastly, I want to add this report reflects  
24 the priority and commitment of the Energy Commission  
25 in ensuring that all Californians benefit from clean

1 energy programs and policy. More importantly, it  
2 reflects the diligent efforts and expertise of staff  
3 who completed the study within the Legislature's  
4 ambitious timeline.

5           Accordingly, I would like to recognize and  
6 thank all of the staff who made this report  
7 possible. And if they're here, if you can just  
8 stand? Let's start with our primary authors: Jordan  
9 Scavo, Esteban Guerrero, Bill Pennington, Pamela  
10 Doughman, our Research Librarian Christopher Wymer  
11 and our Co-Project Manager and 350/802 Project  
12 Coordinator Michael Sokol. Advisers Kevin Barker,  
13 Emilio Camacho, Rhett deMesa, Bryan Early, Jennifer  
14 Nelson, Eunice Murimi.

15           We also received valuable input from a host  
16 of agencies, industry stakeholders and individuals  
17 who are listed in the acknowledgements section of  
18 the Low-Income Barrier Study. And many of them are  
19 here today.

20           I would also like to add the following  
21 names to the list of acknowledgements. And those  
22 additional names from the Energy Commission would  
23 include Ken Rider, Matt Coldwell and Erik Jensen,  
24 from the Governor's Office of Business and Economic  
25 Jesse Torres; California Housing Partnership

1 Stephanie Wong and Caroline McCormick; California  
2 Independent System Operator Thomas Dougherty;  
3 Greenlining, Alvaro Sanchez; Alex McDonald and Rick  
4 Brown; Saul Gomez for the California Natural  
5 Resources Agency; Ashley Dunn and Richard Corey from  
6 the California Air Resources Board; and Carol Zabin  
7 from UC Berkeley Labor Center.

8           The report also notes that after  
9 publication of the Barrier Study the Energy  
10 Commission intends to hold implementation workshops  
11 in early 2017 and moving forward the Energy  
12 Commission will continue to monitor the status of  
13 the recommended actions to help track progress over  
14 time.

15           At this time I am requesting approval of  
16 the proposed report, the changes set forth in the  
17 errata document, which has been made available to  
18 the public, and the final changes discussed during  
19 today's business meeting. Thank you.

20           CHAIRMAN WEISENMILLER: Thank you.

21           Let's go to public comment. First, we'll  
22 start with those in the room. And again, those who  
23 have comments, do a comments blue card. Jason  
24 Wimbley, starting with basically other public  
25 agencies first.

1           MR. WIMBLEY:   Jason Wimbley, Chief Deputy  
2   Director with the Department of Community Services  
3   and Development, and I appreciate the opportunity to  
4   provide a few remarks on the Low-Income Barriers  
5   Study.

6           First, the Department of Community Services  
7   and Development strongly supports the  
8   recommendations outlined in the Barriers Study. And  
9   further believes that the recommendations, if  
10  implemented, will support the Department's mission  
11  to reduce poverty in California and improve the  
12  ability to provide innovative and effective services  
13  and investments to low-income communities.

14          As administering a number of federal and  
15  state low-income weatherization, renewable energy  
16  and utility assistance programs, CEC welcomes  
17  greater collaboration and program integration across  
18  the state's low-income programs.

19          CEC has previously incorporated a number of  
20  the study's recommendations into its existing energy  
21  efficiency renewable energy program models. These  
22  include integrating water efficiency measures,  
23  prioritizing workforce development, and allowing for  
24  neighborhood eligibility for services in  
25  disadvantaged communities.

1           We are also exploring opportunities to fund  
2 community solar projects and plan to fund a pilot  
3 project to support community solar projects under  
4 the Low-Income Weatherization Program funded by Cap  
5 and Trade investments. As such we strongly support  
6 the community solar recommendations outlined in the  
7 study in order to give the disadvantaged and low-  
8 income communities increased access to renewable  
9 energy while also lowering their energy bills.

10           In addition to supporting community solar  
11 recommendations, CSD would like to highlight the  
12 importance of the recommendations to increase data  
13 sharing across programs and establishment of a task  
14 force for stronger coordination across state  
15 agencies. This state collaboration is essential to  
16 optimize the utilization of existing program  
17 resources and effectuate the use of data to assist  
18 the targeting of investments and more robust program  
19 evaluation.

20           Finally, CSD would like to voice our  
21 support for the establishment of common definitions  
22 and metrics for non-energy weatherization benefits  
23 and emphasize the importance of not losing sight of  
24 the significance of the societal co-benefits these  
25 programs provide when evaluating the impact of low-

1 income weatherization and energy assistance  
2 programs. CSD looks forward to continued  
3 cooperation and collaboration with the CPUC, Energy  
4 Commission, IOUs and other utility partners as we  
5 move forward with implementing the recommendations  
6 of this study.

7 This concludes my remarks.

8 CHAIRMAN WEISENMILLER: Thank you.

9 I'm going to walk through our sister  
10 agencies. ARB, actually if you have a few comments?

11 MS. DUNN: Good afternoon, Chair and  
12 Commissioners, thank you so much for having us here  
13 today. My name is Ashley Dunn from the Air  
14 Resources Board and I'm the leading staff person  
15 that's overseeing the SB 350 Clean Transportation  
16 Access Document Development at ARB.

17 So Alana invited us here today to briefly  
18 discuss our document development efforts as well as  
19 our continued coordinating with the Energy  
20 Commission. I want to acknowledge the hard work and  
21 dedication of Alana and the Barriers Report writing  
22 team. They've been an absolute pleasure to work  
23 with through this process and our collaboration has  
24 really fostered an important partnership, which we  
25 look forward to continuing in the future.

1           As a reminder, SB 350 directed us to  
2 develop a study, which outlines the barriers to zero  
3 emission and near-zero emission transportation  
4 options for low-income residents in disadvantaged  
5 communities. And we've also been tasked as part of  
6 that effort with developing recommendations by  
7 January 1, 2017.

8           So based on our meeting so far with low-  
9 income residents and also with the public, we have a  
10 pretty clear idea of what the barriers are for clean  
11 transportation access. And it provides through this  
12 guidance document process a clear framework, which  
13 we're going to be studying for with how ARB and the  
14 other agencies can move forward towards increasing  
15 access to clean transportation.

16           ARB and Energy Commission's public  
17 processes were closely integrated together to stress  
18 the importance of the tie and the connection between  
19 clean transportation and energy for low-income  
20 residents in disadvantaged communities. A lot of  
21 thought went into how we wanted to tie these efforts  
22 together and signal our coordination moving forward  
23 in support of increasing transportation  
24 electrification and access to energy efficiency  
25 programs across the state. So this is why we



1 developed the approach of having two parts to the  
2 report. Part A for Energy and Part B for Clean  
3 Transportation Access.

4           There are many ways in which we  
5 collaborated in this process, which I just want to  
6 touch on very shortly. So we jointly attended the  
7 Environmental Justice Advisory Committee community-  
8 based meetings together, which was really valuable  
9 in providing important input into this process. We  
10 also jointly held roundtable meetings with the  
11 public. We attended each other's public meetings  
12 wherever feasible, which was also very valuable and  
13 continue to share lessons learned through this  
14 process as we're continuing to meet with low-income  
15 residents and the public.

16           Through this close coordination, we've  
17 identified similar barriers, which probably isn't  
18 much of a surprise including the need to have  
19 targeted outreach and marketing to really promote  
20 increased awareness across the state in addition to  
21 increasing the awareness of things like incentives  
22 and rebate programs for low-income residents in  
23 disadvantaged communities.

24           Based on our feedback -- I'll be very  
25 brief.

1                   CHAIRMAN WEISENMILLER: Well, you can keep  
2 going. Yeah, go ahead.

3                   MS. DUNN: From low-income residents and  
4 the public, and we've talked to CEC about this,  
5 we've identified really important synergies between  
6 our two reports, which I just want to highlight  
7 really quickly. The need for dedicated long-term  
8 funding for transformative clean transportation and  
9 energy programs, that's a biggie. Also, I kind of  
10 alluded to this earlier, the need for localized one-  
11 stop shops to make sure that we're targeting our  
12 education and outreach efforts. And also maximizing  
13 economic benefits through things like workforce  
14 development, which you heard Alana speak about  
15 earlier.

16                   So we want to continue to share our lessons  
17 learned as part of this ongoing process in 2017.  
18 And in terms of remaining milestones I just wanted  
19 to let you guys know that we're planning on posting  
20 our report by the end of the year. We look forward  
21 to continuing to work with you through this process  
22 and we want to go back to the low-income communities  
23 in early 2017 to let them know how their feedback  
24 was incorporated into the report. Subsequent to  
25 that we'll be providing an Informational Update to

1 our Board.

2 Thank you very much for your time. We  
3 really appreciate it.

4 CHAIRMAN WEISENMILLER: Okay. Thank you,  
5 thanks for being here.

6 MS. DUNN: Sure.

7 CHAIRMAN WEISENMILLER: Workforce  
8 Development Board?

9 MS. WHITE: Hi, good afternoon,  
10 Commissioners. My name is Sarah White. I'm the  
11 Deputy Director at the California Workforce  
12 Development Board. I lead the Labor Agency's work  
13 on equity climate and jobs and our joint interest, I  
14 think, in seeing economic and climate resilience  
15 across all of California -- especially in those  
16 hardest-hit communities.

17 So we welcome the Energy Commission's  
18 report and the focus on expanding renewable energy  
19 and energy efficiency in the state's low-income  
20 communities, and in particular we're really excited  
21 about the focus on employment co-benefits. We  
22 especially support there is a specific  
23 recommendation around community workforce  
24 agreements. That's a strategy that we're working on  
25 across environmental and energy agencies to use to

1 build accessible, local job opportunities.

2 I think that I just want to emphasize,  
3 because it's not a huge part of the report, but it's  
4 a very important part of the report, that clean  
5 energy investments as we know do and can create job  
6 opportunities in disadvantaged communities. But  
7 we've learned over the last decade that this does  
8 not happen automatically, that it has to be done  
9 intentionally.

10 And the answer is not simply, creating  
11 training programs, right? You start with the jobs  
12 and then you build local education and training  
13 programs that connect local disadvantaged  
14 individuals directly with the jobs that are created.  
15 It doesn't happen by magic, there's a lot of work to  
16 it. And I think that there's a world of experience  
17 here in California and around the country on how to  
18 do that, right? And so we really emphasize, we  
19 really welcome the emphasis in the report on  
20 interagency collaboration around these issues. We  
21 want to make sure that the efforts of the Energy  
22 Commission are tied, as the report shows they are,  
23 to the deep knowledge of the existing education and  
24 training systems across the state.

25 And so I want to say that we applaud the

1 report and we support its recommendations. And  
2 thank you for inviting us.

3 CHAIRMAN WEISENMILLER: Thank you.

4 Looking around to see if there's anyone  
5 from any other state agencies. Anyone from the PUC?  
6 Anyone from the State Treasurer's Office? Any other  
7 state agency?

8 Let's transition over to public members.  
9 Sekita Grant, Greenling?

10 MS. GRANT: Hello, good afternoon everyone,  
11 good to see you all. My name is Sekita Grant, I'm  
12 with the Greenlining Institute. I'm honored and  
13 privileged to be able to make comment in support of  
14 this great report and recommendations.

15 These recommendations show from our view,  
16 very clearly, that the Energy Commission and the  
17 state is committed not to just giving lip service to  
18 equity, to the interests of marginalized communities  
19 that have been historically burdened by the  
20 externalities of our energy system. But the Energy  
21 Commission is really stepping into a leadership role  
22 from our view, really a world leader in the space of  
23 climate and clean energy equity. And at a time when  
24 we really need to have an agency like this stepping  
25 up in that space, so we're very excited to see this.

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1           Through these recommendations, many of  
2   which to the credit of the Energy Commission and  
3   staff, really are building upon programs and  
4   initiatives that you all already had embedded in the  
5   Energy Commission. So I want to acknowledge that.

6           The Energy Commission is really recognizing  
7   the importance of creating a clean energy economy  
8   that is truly accessible and beneficial to all  
9   Californians. So we want to thank you for being  
10  very bold and pushing us beyond business as usual.

11           This would not have been possible without  
12  the leadership of the Commissioners. Chair  
13  Weisenmiller and Commissioner Scott, I want to call  
14  out specifically. You all have been on the record  
15  for years now in support of these types of efforts.  
16  And your leadership in this space is really welcome  
17  and appreciated by the stakeholders that are working  
18  in this field.

19           To Alana who went above and beyond her  
20  mandate to ensure that this project was successful.  
21  Countless community meetings, really putting the  
22  effort to ensure interagency collaboration, which we  
23  can see by the presence of the awesome Air Resources  
24  Board team that's here today. And then a lot of  
25  conversation with the stakeholders that have been

1 engaged in this process. I think that sometimes in  
2 such a technical space such as clean energy we  
3 forget to lead with our heart as well as our brains.  
4 And I think Alana is a great example of why we  
5 should not forget to do this.

6 I'm just floored by all the folks who stood  
7 up who were involved in this report, so I want to  
8 acknowledge all the staff that put a lot of time and  
9 effort into these recommendations. We really  
10 appreciate it and we look forward to working with  
11 staff next year and throughout the implementation  
12 stages of this document.

13 So we're very encouraged by this report and  
14 just up here to say thank you. And we look forward  
15 to supporting you in the implementation part. Thank  
16 you.

17 CHAIRMAN WEISENMILLER: Thank you. Thanks  
18 for being here.

19 Madeline Stano?

20 MS. STANO: Good afternoon, thank you to  
21 the Chairman and Commissioners. My name is Madeline  
22 Stano and I'm an attorney at the Center on Race,  
23 Poverty and the Environment with offices in Oakland  
24 and Delano, California. We are a grassroots  
25 environmental justice organization and we serve

1 residents across Kern County including Arvin,  
2 Allensworth, Bakersfield, Delano, Lamont, Shafter,  
3 and Wasco.

4           And I'm happy to be here to offer support  
5 for the report and its corresponding  
6 recommendations. And I'm very excited, because I  
7 work on a lot of pollution issues and got to this  
8 issue, because the residents that I work with want  
9 to be more engaged in these opportunities and are  
10 the folks that the report works so hard to identify  
11 what those barriers are. I see that in the field  
12 and so I'm very excited at the opportunity that this  
13 presents.

14           So we commend the Energy Commission and  
15 staff on their excellent work to ensure low-income  
16 residents and residents in disadvantaged communities  
17 have meaningful access to renewable and energy  
18 efficiency programs. These communities are  
19 overwhelmingly, as you know and as the report  
20 states, overburdened by the negative health and  
21 climate impacts of fossil fuels in the state. And  
22 as the study identifies, faces barriers to fully  
23 participating in the wonderful programs that our  
24 state is engaging in.

25           We urge the Commission to adopt the



1 Barriers Study and its corresponding  
2 recommendations. We look forward to working  
3 together on the implementations. Thank you.

4 CHAIRMAN WEISENMILLER: Thank you for being  
5 here.

6 BlueGreen Alliance?

7 MR. NAKASONE: Good afternoon,  
8 Commissioners, Ross Nakasone of BlueGreen Alliance.  
9 On behalf of the BlueGreen Alliance and a  
10 coalition of community environmental labor and  
11 business organizations I wanted to join Madeline and  
12 others to thank Alana, Michael and the rest of the  
13 gang for their really great work on developing the  
14 SB 350 Barriers Study. We certainly appreciate and  
15 understand how much work they went through and their  
16 meaningful efforts to outreach and significantly,  
17 meaningfully hear from community groups.

18 My coalition's focus has been on access for  
19 those in disadvantaged and low-income communities to  
20 have access to good career-track clean energy jobs.  
21 We see the lack of access to quality jobs as a  
22 significant barrier and without such access  
23 California won't fully realize the potential to  
24 serve these low-income households in those  
25 disadvantaged communities.

1           As the report notes develop local workforce  
2 participation in clean energy programs is integral  
3 in enabling the full range of benefits for low-  
4 income customers. And we see the report as a first  
5 step in addressing this lack of access for those in  
6 disadvantaged communities to those good jobs.

7           We're heartened to see that the job quality  
8 and access component is now a principal  
9 recommendation and that jobs tracking will be among  
10 the recommended metrics and that's very exciting to  
11 see. However, one of our concerns is that many of  
12 the recommendations around workforce appear to be  
13 limited to the incentive programs that are actually  
14 targeted to the low-income communities. The  
15 barriers around job access need to be addressed as  
16 part of the structure of all energy efficiency  
17 programs. That is to say, jobs for disadvantaged  
18 communities can come from all clean energy programs,  
19 not just those that actually provide direct energy  
20 efficiency services to low-income communities.

21           Staff has assured us that their intent is  
22 that these recommendations have a broad  
23 applicability, so we're really looking to the  
24 Commission, to you all now, to interpret the scope  
25 of these recommendations broadly as implementation

1 moves forward. So we look forward to job quality in  
2 access issues as part of the implementation efforts  
3 of SB 350 and the workshops Alana had talked about,  
4 because many of related proceedings already are  
5 ongoing, for example at the CPUC. And so  
6 implementation steps need to begin fairly quickly in  
7 order to ensure that those programs are developed  
8 under those proceedings. You know, that they are  
9 consistent with what you all are working on here.

10 So thank you.

11 CHAIRMAN WEISENMILLER: Thank you.

12 IBEW, Bret Barrow?

13 MR. BARROW: Mr. Chairman and -- here we  
14 go, back on. My name is Bret Barrow here, I'm  
15 representing the IBEW and NECA Labor Management  
16 Cooperative Committee. We represent approximately  
17 2,000 contractors and 30,000 electrical workers  
18 throughout the state.

19 We're here today in support of the Barriers  
20 Report and adoption of the Part A, and appreciate  
21 the hard work that's gone into this report, putting  
22 it together. And we also appreciate the role we've  
23 played both through the workshops and through our  
24 filings in this process.

25 I might also like to, rather than repeat

1 what the BlueGreen Alliance says, support their  
2 comments related to workforce. We do appreciate the  
3 fact that the report calls out a working  
4 relationship between the trades in the different  
5 areas. Our statewide approved apprenticeship  
6 programs are located in consistent presences in  
7 these disadvantaged communities. And to the ability  
8 to partnership and work for career paths in these  
9 areas is certainly one of our top goals as well, so  
10 I appreciate that as well.

11 Another barrier I wanted to point out here  
12 that was addressed in the report, but maybe not as  
13 clearly as we'd like is the kind of pervasiveness of  
14 poor quality installations in disadvantaged  
15 communities. The lack of skill in training  
16 standards for installers of these programs is a  
17 little bit too common and it often results in energy  
18 savings not being realized and the cost of return on  
19 a investment being realized in these areas as well.  
20 So small businesses and disadvantaged communities  
21 are certainly the least able to weather a poor  
22 installation and having to do something yet another  
23 time, to make those savings realized.

24 I know this is something that is  
25 highlighted in the existing Building Energy

1 Efficiency Action Plan that we'll be taking up later  
2 this afternoon. But I just wanted to make sure that  
3 that's something as we move forward on  
4 implementation in this report, that we take a look  
5 at as well. So thank you for your time.

6 CHAIRMAN WEISENMILLER: Thank you. Thanks  
7 for being here.

8 Sierra Club?

9 MR. MORENO: Good afternoon Chair and  
10 Commissioners, Eddie Moreno on behalf of Sierra Club  
11 California. First I want to thank CEC staff for  
12 taking on this impressive feat. It is a very  
13 informative and very interesting report.

14 We feel that the 350 Barriers Report is a  
15 beautiful start to an important conversation. We  
16 also want to echo some of the comments made by  
17 BlueGreen Alliance regarding skilled workforce and  
18 access to quality jobs. Again, if we're to meet our  
19 climate goals we have to fully incorporate these  
20 communities, both in terms of the energy benefits  
21 and non-energy benefits.

22 And just the Sierra club looks forward to  
23 working with the CEC on implementing the report next  
24 year. Thank you.

25 CHAIRMAN WEISENMILLER: Thank you.

1           Is there anyone else in the room who wants  
2 to comment on this report?

3           (No audible response.)

4           So let's go to the telephone lines. I  
5 think we have at least CALSEIA on the line.

6           MR. KNUTSEN: Yes, good afternoon. This is  
7 Kelly from CALSEIA and I just wanted to say good  
8 afternoon Chair and Commissioners. I'm Kelly  
9 Knutsen of the California Solar Energy Industries  
10 Association or CALSEIA and we represent over 400  
11 members of the solar industry.

12           I just wanted to again echo what others  
13 have said. Thank you to you and your staff for the  
14 hard work in developing this important report and  
15 for your continued focus on increasing access to  
16 clean energy for low-income individuals in  
17 disadvantaged communities.

18           In general, we do support the  
19 recommendations that have been highlighted in this  
20 report. And I also want to especially thank you for  
21 acknowledging and incorporating CALSEIA's comments  
22 into the report including some of the suggestions  
23 that were in the most recent errata document that  
24 was reported last night.

25           I do want to note, and I understand there's

1   been some discussions among staff on this, that  
2   there should be a small errata to the proposed  
3   errata that was just released yesterday. There's a  
4   reference to AB 327 in Chapter 4, pages 55 and 56,  
5   that now could be interpreted that the issue of net  
6   energy metering for residents in disadvantaged  
7   communities is being addressed by the California  
8   Public Utilities Commission under AB 327 for all  
9   utilities across the state, including the publicly-  
10  owned utilities.

11               However, I just want to make sure that the  
12  report notes that AB 327 only applies to the large  
13  investor owned utilities. It does not apply to the  
14  publicly owned utilities who are not required under  
15  AB 327 to develop a new net metering successor  
16  tariff after hitting their 5 percent requirement.  
17  Nor are they required to develop alternative tariffs  
18  to ensure that continued growth of distributed  
19  generation among residential customers including  
20  disadvantaged communities, which is part of the key  
21  thing that's being addressed in this Barrier Study.

22               So we do appreciate that the addition of --  
23  there's a new footnote, reference 98, that some  
24  publicly owned utilities have already met their 5  
25  percent requirement. But I think that's where the

1 confusion can come in that now could be interpreted  
2 to mean that -- the sentence that follows -- that  
3 its being addressed to the CPUC. And unfortunately,  
4 it's not the case that that metering is being  
5 addressed by the CPUC under AB 327.

6           As we noted in our comments from last week  
7 there's a challenge unfolding across the state,  
8 public owned utilities, that they're meeting their 5  
9 percent statutory requirement for that energy  
10 metering. Unfortunately, many of them have replaced  
11 or plan to replace it with tariffs that undervalue  
12 the benefits of clean local generation, which has  
13 made them uneconomical to local solar customers.  
14 And of course then the CPUC has no jurisdiction over  
15 those changes.

16           So I just wanted to state we hope this  
17 report will explicitly address that and that AB 327  
18 only applies to the large investor owned utilities,  
19 not the publicly owned utilities.

20           Thank you again for developing this report  
21 and for considering this final suggested edit. And  
22 we will look forward to working with you going  
23 forward.

24           CHAIRMAN WEISENMILLER: Okay. Anyone else  
25 on the line?



1 (No audible response.)

2 CHAIRMAN WEISENMILLER: Okay, then lets  
3 transition from public comment to conversation among  
4 the Commissioners.

5 Oh, one more?

6 Hello?

7 CHAIRMAN WEISENMILLER: Hello, please go  
8 forward. Please introduce yourself.

9 MR. JATKAR: Hi, this is Shrayas Jatkar  
10 with Coalition for Clean Air. Can you hear me now?

11 CHAIRMAN WEISENMILLER: Yes. Yes, we can.

12 MR. JATKAR: Okay, great. So yes, Shrayas  
13 Jatkar, Coalition for Clean Air. I want to start by  
14 thanking staff for a great public process in putting  
15 together the report. We got a chance to participate  
16 in a couple of the workshops earlier this year. I  
17 also want to acknowledge and thank staff for the  
18 close coordination with Air Resources Board and  
19 their study on Barriers to Low-Carbon  
20 Transportation.

21 And we're in support of the report and the  
22 recommendations and want to just second the comments  
23 made by BlueGreen Alliance and Greenlining  
24 Institute. And just acknowledge again that there's  
25 a great need to make sure that the quality of the

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1 work that's being provided is also addressed in  
2 terms of a structural barrier to increase  
3 participation of low-income consumers in clean  
4 energy programs.

5 And also, just highlight again the point  
6 made that those economic development-related  
7 recommendations should apply to clean energy  
8 programs at large, and not just those that are  
9 targeted at low-income or disadvantaged communities.  
10 And with that, we look forward to the next steps and  
11 being involved in implementation. Thank you.

12 CHAIRMAN WEISENMILLER: Thank you.

13 Anyone else on the line?

14 MS. MATHEWS: There may not be anyone else  
15 on the line but Chair, if I can just have a brief  
16 moment to address the comments by CALSEIA?

17 In my presentation I did include there was  
18 a highlight for program integration and I mentioned  
19 that section in Section 4, Chapter 4, page 58, how  
20 we did add in language to clarify that that  
21 particular legislation applied only to IOU  
22 residential customers.

23 CHAIRMAN WEISENMILLER: Thank you.

24 So anyone else on the line?

25 (No audible response.)

1                   CHAIRMAN WEISENMILLER:   Again, let's  
2 transition over to Commissioner conversation at this  
3 point. Go ahead.

4                   COMMISSIONER SCOTT:   Sure. I would love to  
5 start. I really want to say thank you so much to  
6 Alana and to Mike for their great leadership on this  
7 effort. We all recognize that coordinating this has  
8 been quite the undertaking and they have both done  
9 just a terrific job.

10                  I'm going to give Alana a heads up that  
11 when I get a little closer to the end of my remarks,  
12 which I have about six bullet points here, I want  
13 you to put those slides up again that had all of the  
14 partners that we want to acknowledge. Just so folks  
15 have a chance to see those and really get a good  
16 look, because it really did take a village to put  
17 this together. And we wouldn't have been able to do  
18 it without the enthusiastic and engaged  
19 participation from all of the stakeholders who  
20 worked together with us on this.

21                  As you all know, energy touches all  
22 Californians and so it's really important that as  
23 the clean green economy grows here in California,  
24 we're taking the necessary steps to ensure that low-  
25 income communities and really that everyone has

1 access to those opportunities.

2 I think our staff has done a great job at  
3 reaching out and engaging folks on this report. And  
4 as the Public Member, of course I really appreciate  
5 the effort that was put into coordinating with our  
6 community partners. I mean, we did a fantastic job  
7 and as you can see here, here are the first set, I  
8 think there were three slides of the community  
9 partners and folks who really worked with us to make  
10 this the robust and terrific report that it is.

11 We were able to visit the various  
12 communities. They invited us into their communities  
13 to have meetings and to really hear their concerns.  
14 And the barriers that they are facing and the  
15 challenges. We had a chance to do these meetings in  
16 various languages, and I think all of this really  
17 helped contribute to the robustness of our report.

18 Here at the Energy Commission one of our  
19 commenters mentioned it, I think Sekita from  
20 Greenlining, we've taken a lot of steps to increase  
21 the diversity of the folks who are participating in  
22 our programs including the diversity resolution that  
23 we all passed together in fall of 2015.

24 And SB 350 and the call for this report,  
25 really brings into focus how important it is that we

1 as a state work together to make sure that all  
2 Californians are aware, especially low-income  
3 Californians, and able to benefit from the state's  
4 suite of programs and opportunities.

5 So I really look forward to continuing the  
6 conversations that have been started during the  
7 development of the report. It was a lot of work, it  
8 was hard work, it was good work, but it's just the  
9 beginning of the work that we need to carry forward.  
10 And I really look forward to working with all of our  
11 partners on implementing this in the New Year.

12 I did just want to just take a chance for  
13 us to -- Alana had called out the names of a bunch  
14 of staff who worked on the report. If I could get  
15 you all to stand up one more time, I really do want  
16 to take a minute to -- go ahead, don't be shy --

17 MS. MATHEWS: That would include Galen.

18 COMMISSIONER SCOTT: -- to acknowledge all  
19 of the fantastic work that you did.

20 Rhetta, I see you're still sitting.  
21 Eunice, you're still sitting, and Alana herself, you  
22 guys did a fantastic job. And I really want to  
23 thank you for the time and energy and effort that  
24 you put into our report. So I just wanted to make  
25 sure you got that little bit of extra

1 acknowledgement. And also again, the partners that  
2 you saw on our slides.

3 (Applause.)

4 Great job guys.

5 Let me turn it to my fellow Commissioners  
6 to see if they have remarks.

7 COMMISSIONER MCALLISTER: So I think I want  
8 to thank Mike and Alana, just I'll pile on there.  
9 I'm sure there have been a lot of kudos already,  
10 many more to come but they're all very well  
11 deserved.

12 And, you know, this is a broad set of  
13 issues that is difficult. I mean, disadvantaged  
14 communities are hard to access for many, many  
15 different reasons. You can read the report. It's  
16 great to see -- I actually have some history -- long  
17 ago, early on in my career, of doing some  
18 environmental justice work. And writing for the  
19 Race, Poverty, Environment Newsletter way back in  
20 the day. And doing some work at LBL for the  
21 Department of Health and Human Development looking  
22 at Section 8 housing.

23 And just it is hard to reach for lots of  
24 different reasons. These are economically  
25 difficult, these are people who have a lot of

1 demands on them and a lot of difficulties and energy  
2 is one of them. But really I think the highlight  
3 that you can sort of infer throughout the report, is  
4 that these are really people, human problems.

5           And we have to approach, you know, we use a  
6 lot of terms: disadvantaged communities, low-income  
7 constituents. But these are people who have to have  
8 relationships in order to make decisions and have  
9 access to programs, and so it really comes down to  
10 that local level. So implementation is really where  
11 a lot of this is at and so I think that this report  
12 lays the groundwork for going forward on that  
13 implementation. But the rubber really hits the road  
14 there.

15           And just at a high level, we have not done  
16 our job if we transition to a great clean energy  
17 economy and we leave 20, 30, or 40 percent of the  
18 population behind. It's just that is not success  
19 and so I think that's a more and more urgent, and I  
20 think recognized across the board these days. And  
21 it's great and so this report obviously is a  
22 building block for solving that challenge for  
23 providing access across the board.

24           I certainly endorse all recommendations,  
25 and in particular moving forward this will be

1 something you've all heard from me before, but using  
2 all the information we can get to make better  
3 decisions. And yet target our resources to where  
4 they can be best utilized and so really high on the  
5 data recommendations. Certainly the taskforce is  
6 very needed, but I just wanted to highlight those.

7           And the workforce issues are right in the  
8 center of this, so I really appreciate all the  
9 comments on workforce. And in measures it's about  
10 having people be in these neighborhoods that are  
11 from these neighborhoods, so that to get to that  
12 human decision-making process I'm much more  
13 comfortable procuring something from somebody who  
14 maybe looks like me. But really it's about  
15 professionalism and quality as well, and so how to  
16 do that? It's contextual, it's across the state,  
17 big state, lots of effort.

18           And so in any case I want to just thank  
19 again the staff and everybody who's -- I mean this  
20 takes a city actually, not just a village. And I'm  
21 looking forward to working with all the stakeholders  
22 in all of these conversations that are going to spin  
23 out on different policy approaches that will come  
24 undoubtedly from this report.

25           So thanks, I'm obviously very supportive.



1           COMMISSIONER DOUGLAS:  So I'll just briefly  
2  add on that it's really been enjoyable to work on  
3  this.  And just watch this report as it's developed.  
4  It's unusual for -- well there are many cross-  
5  cutting issues we deal with, but this is one that  
6  really all the Commissioners had a lot of interest  
7  in and desire to participate and support.  And so we  
8  found ways to make that work and I know we all went  
9  and participated, for example, in one of the  
10 community meetings.  And just had the opportunity to  
11 do things like that.

12           It's been great seeing the report  
13 developed.  It's been great to see the Energy  
14 Commission staff team kind of really come together  
15 and see people really step up and pitch in and do  
16 what needed to be done to get the work done on time.  
17 And we definitely all appreciate the input of the  
18 members of the public who came to some of the  
19 community workshops, and the advocates who were  
20 really essential and very helpful in helping us get  
21 to where we are with this report.

22           So anyway, I'm obviously in strong support  
23 as well.

24           COMMISSIONER HOCHSCHILD:  Well, thank you  
25 to all the staff and to Alana.  And also in

1 particular to Esteban and Emilio on my team for all  
2 your hard work on this.

3 I went to two of the community sessions in  
4 Los Angeles and in Oakland on this, in multiple  
5 languages, Mandarin and some others. And just found  
6 it to be enormously fruitful and a creative  
7 discussion. I just want to say we're obviously in a  
8 changed political environment at the national level.  
9 But I think the message you'll hear not just from  
10 all of us here at the Energy Commission, but the  
11 Governor and the Legislature and our colleagues at  
12 the other agencies as well is that we in California  
13 are putting our foot on the accelerator and not the  
14 brake as we press to meet our clean energy goals.

15 And we're now at 27 percent renewables for  
16 the state up from 12 percent in 2008. We're making  
17 headway quickly. I'm actually quite optimistic  
18 about our opportunity for progress in particular in  
19 this arena, because I think the political will has  
20 actually never been stronger to do something  
21 meaningful for disadvantaged communities to do  
22 something meaningful for disadvantaged communities.  
23 To deal with some of the justice issues associated  
24 with energy generation and to really make an impact.

25 And this report, I think lays out a bunch

1 of really promising avenues for that, so looking  
2 forward to what we can all do together in the year  
3 ahead.

4           CHAIRMAN WEISENMILLER: Thank you. Now,  
5 again I think first I should clarify, in terms of  
6 probably the right word is "drafted" as opposed to  
7 "volunteered," but having said that we certainly  
8 appreciate the Legislature's vote of confidence in  
9 this. Giving us the assignment and certainly  
10 appreciate in fact, some of the staff, Alana in  
11 particular. Some of the staff volunteered and  
12 others sort of stepped forward to sort of deal with  
13 the cards we were dealt to help us get through this.

14           And we took an unusual approach for us. I  
15 mean, certainly as we go forward working through  
16 some of the implementation we will continue to  
17 struggle in that we operate, in some respects, in  
18 silos. You know, there's an energy efficiency  
19 silo, a renewable silo. And we basically did this  
20 more as a sitting body, which also was a way we  
21 could actually communicate among ourselves without  
22 getting into Bagley-Keene issues. But it certainly  
23 made for a much more public process, which again was  
24 good.

25           I think certainly the basic policy, I think

1 the Governor has been fairly clear that while we  
2 respect the election outcome, that as a matter of  
3 policy California will stay true to human rights.  
4 And certainly one of the human rights is access to  
5 energy services in a clean reliable low-cost  
6 fashion.

7           So I think this is a step to do that. It  
8 certainly catalyzed a conversation among us, not  
9 only those of us at the dais, but with the other  
10 agencies. To see how we could better make sure that  
11 all Californians benefit from the changes that are  
12 going on in preferred technologies.

13           And frankly, some of these changes are good  
14 and some of it will make it will make it more  
15 complicated. On the one hand, solar and wind are  
16 now really a best buy, energy efficiency LEDs are  
17 just remarkable how cost effective they are now,  
18 it's just a shame not everyone's using them.

19           But at the same time as we restructure the  
20 utilities I'm struck by, you know, PG&E did their  
21 filing on how they're doing on contracting. And  
22 PG&E's contracting has -- Sue Madison's (phonetic)  
23 also, I just didn't see that -- has a very strong  
24 component of small business and diversity  
25 contracting.

1           Now, at the same time as we go through the  
2 changes in industry structure, obviously a lot of  
3 the preferred technology companies are scrambling  
4 fast, innovative, but not necessarily doing that  
5 well on small business contracts. Certainly not  
6 necessarily doing that well on labor conditions, and  
7 so we need to make sure that we figure out ways as  
8 we restructure that we're marching forward.

9           And similarly, it's really important to  
10 deal with some of the quality control issues. I  
11 remember just after President Picker got to the PUC  
12 he told me that Commissioner Simon's uncle, an  
13 elderly black gentleman, had put a solar system on  
14 his roof and it wasn't working was the bottom line.

15           And Michael was asking what I was going to  
16 do about it. Well, I thought about it and said,  
17 "Well, that has to be the CSI Program and not the  
18 New Solar Homes Program." But again, I think we all  
19 need to make sure that as we're putting public money  
20 into getting stuff out, that it works. And so again  
21 that's the quality control consumer protection part  
22 is particularly important going forward too.

23           So again, in some respects it's a big step  
24 for us. It's a small step in this area, but it's an  
25 important that I hope to become a greater part of

1 the dialogue in the Legislature this year. So  
2 again, thanking the staff for their hard and  
3 thanking everyone for their participation in this  
4 process. And again, as I said, we're starting but  
5 we're certainly not there yet.

6 COMMISSIONER SCOTT: Okay. So I would like  
7 to move Item 8. I move that we approve the proposed  
8 report, the changes set forth in the errata  
9 document, and the final changes discussed that Alana  
10 highlighted for us during today's Business Meeting.

11 CHAIRMAN WEISENMILLER: All those in favor?

12 (Ayes.)

13 CHAIRMAN WEISENMILLER: This item passes 5-  
14 0. And congratulations, staff. Thanks again,  
15 thanks to everyone for their participation.

16 Let's go on to Item 15.

17 MR. FAUBLE: Good afternoon Chair and  
18 Commissioners. My name is Brian Fauble with the  
19 Fuels and Transportation Division, Zero-Emission  
20 Vehicle and Infrastructure Office. I would like to  
21 start with a short presentation on California's  
22 Direct Current or DC fast charging station network.

23 In November of 2013, the CEC released  
24 solicitation PON-13-606, as indicated on the map,  
25 for EV Infrastructure projects that would install

1 charging stations at multiple types of sites;  
2 including destinations, corridors, workplaces, and  
3 residential units without garages.

4 The awarded projects included 75 DC Fast  
5 chargers at 65 sites, which are shown as the blue  
6 dots.

7 The red dots represent existing and planned  
8 publically available DC fast chargers prior to the  
9 2013 solicitation. Included in these red dots are  
10 37 fast chargers at 41 sites that the CEC funded  
11 prior to this 2013 solicitation. Next slide,  
12 please?

13 In 2015 the CEC released solicitation GFO-  
14 15-601, for projects to install DC fast charging  
15 stations on the primary north-south corridors that  
16 would allow travel from the Oregon to Mexican  
17 borders.

18 The solicitation added a planned 61 DC fast  
19 chargers and 42 Level 2 charging stations at 41  
20 sites, again shown as the blue dots. The red dots  
21 now represent the previously existing chargers and  
22 planned chargers that were awarded in 2013 and  
23 previous. Next slide, please?

24 Our most recent EV infrastructure  
25 solicitation again concentrated on DC Fast Charging

1 corridors, this time concentrating on interregional  
2 travel. The solicitation corridors extended to  
3 California's northwestern and eastern borders, as  
4 well as connected major travel routes.

5 The solicitation awards will add 130 DC  
6 Fast Chargers and 87 Level 2 charging stations at 79  
7 sites, again represented by the blue dots.

8 With these new corridor projects, EV  
9 drivers can confidently travel from the Oregon  
10 border to Mexico via I-5, US-101, or Highway 99.  
11 They also can travel to Nevada or Arizona via I-80,  
12 Highway 50, I-15, or I-10. Finally, this map shows  
13 only the DC fast charger sites that were awarded by  
14 the CEC.

15 Today staff is requesting approval for two  
16 proposed grant agreements that will install DC Fast  
17 Charging station for electric vehicles along 15  
18 major interregional travel corridors in California.  
19 Each site will include at least one DC Fast Charging  
20 station with both the SAE and CHAdeMO connectors,  
21 one Level 2 charging station and one stub-out for  
22 future expansion.

23 These electric vehicle charging stations  
24 will allow electric vehicle drivers to travel the  
25 entire length of each corridor with an increased



1 confidence in their vehicle's range and re-charging  
2 capabilities.

3 Item 15a is proposed grant agreement ARV-  
4 16-005 with ChargePoint, Inc. for a \$9,270,141 to  
5 install the stations along 15 specific California  
6 Corridors. This agreement also includes \$4,242,465  
7 in match funds.

8 Item 15b is proposed grant agreement ARV-  
9 16-006 with EV Connect, Inc. for a \$2,151,622 grant  
10 to install the stations along three specific  
11 California Corridors. This agreement also includes  
12 \$628,685 in match funds.

13 If approved, the Energy Commission will  
14 provide \$11,421,763 in funding from the Alternative  
15 and Renewable Fuel and Vehicle Technology Program.  
16 These agreements will include a total of \$4,871,150  
17 in match funding, and plan to be open to the public  
18 by early to mid-2018.

19 In summary, staff is requesting the  
20 Commission's support and approval of the proposed  
21 grant agreements listed under Item 15 on the agenda.

22 Thank you for your time and consideration  
23 for these projects.

24 I'm available for any questions, and we  
25 also have staff from ChargePoint available for

1 comment.

2 CHAIRMAN WEISENMILLER: Okay. Let's start  
3 with ChargePoint of EV Connect, the Applicants, if  
4 you want to say a few words. And then we'll go for  
5 public comment.

6 MR. SCHOTT: Good afternoon, Chair and  
7 Commissioners, John Schott from ChargePoint. And on  
8 behalf of all of ChargePoint, and my colleagues here  
9 today and myself, I want to extend a sincere thanks  
10 to the great work that you've been doing to support  
11 and develop the zero-emission vehicle infrastructure  
12 throughout California. Specifically, through the  
13 Alternative Renewable Fuel Vehicle Technology  
14 Program, and the grant funding opportunities that  
15 have been created from those investment plans.

16 So those investment plans, the grant  
17 funding opportunities, the application process, the  
18 review and awarding process, we think are a model  
19 for other states to engage with EV charging  
20 infrastructure companies such as ChargePoint and EV  
21 Connect. They encourage competition, innovation,  
22 customer choice and technology and business models.  
23 And we applaud the Commission for directing funding  
24 opportunities to underpenetrated markets in areas of  
25 greatest need including this effort around DC Fast

1 Charging for the corridors.

2 ChargePoint would also like to thank the  
3 Commission for recognizing the value of public and  
4 private partnerships, which have always been a  
5 cornerstone of ChargePoint's proposals and the  
6 projects that we implement. We look forward to  
7 continuing to work with the excellent staff and  
8 Commissioners at the CEC to deploy infrastructure to  
9 support California's zero-emission vehicle goal of 1  
10 million vehicles on the road by 2020. And we want  
11 to assure staff and Commissioners that ChargePoint  
12 is ready and has the resources to deploy to this  
13 effort to get this project done in an efficient and  
14 quick manner.

15 So I thank you for the opportunity.

16 CHAIRMAN WEISENMILLER: Thank you. Anyone  
17 else in the room with comments on this? Anyone on  
18 the phone?

19 (No audible response.)

20 Okay. So let's transition to the  
21 Commissioners. Commissioner Scott?

22 COMMISSIONER SCOTT: I don't have anything  
23 to add really to Brian's fantastic presentation. I  
24 might have tried to give you some of the context for  
25 what the quarters are going to look like, but you

1 saw the maps. You'll be able to drive from Mexico  
2 to Canada, it's pretty exciting.

3 COMMISSIONER HOCHSCHILD: Could I ask a  
4 question?

5 COMMISSIONER SCOTT: Of course.

6 COMMISSIONER HOCHSCHILD: Yeah, just what  
7 is the cost to recharge a vehicle on average with  
8 one of these ChargePoint -- I mean, relative to gas.  
9 My understanding is its roughly about half the price  
10 per gallon? Is that ballpark right or what, just to  
11 some sense of what the price is to recharge is,  
12 typically?

13 MR. FAUBLE: They do vary regionally and  
14 who the owner is specifically, ballpark off the top  
15 of my head I don't have that number. It is always  
16 relative to what gas prices are also on what  
17 percentage it is to fill up. But off the top of my  
18 head, I'm sorry I don't have that number. And I  
19 don't want to give you a false number.

20 MR. MOORE: It's a (indiscernible).

21 COMMISSIONER HOCHSCHILD: Thank you.

22 CHAIRMAN WEISENMILLER: Come up to the  
23 microphone and identify yourself for the court  
24 reporter. And then answer the question.

25 MR. MOORE: I'd be happy to, good

1 afternoon. Thank you. Rory Moore also with  
2 ChargePoint and I would tell that it really varies  
3 from property to property depending on who owns and  
4 operates the charging equipment itself. You might  
5 expect that a DC Fast Charging session typical with  
6 today's vehicles would range between \$3 to \$8 for a  
7 full battery. That would give you approximately 80  
8 to 100 miles of range. A Level 2 charging session  
9 just for consideration might be half of that, so  
10 anywhere from \$1 to \$3.

11 COMMISSIONER HOCHSCHILD: That's very  
12 helpful. Thank you.

13 COMMISSIONER SCOTT: Any other questions?  
14 Okay. I will move approval of Item 15.

15 COMMISSIONER DOUGLAS: Second.

16 CHAIRMAN WEISENMILLER: All those in favor?

17 (Ayes.)

18 CHAIRMAN WEISENMILLER: Item 15 passes 5-0.  
19 Thank you.

20 Let's go on to Item 16.

21 MS. PALMA: Good morning Chair and  
22 Commissioners, My name is Silvia Palma from the  
23 Energy Research and Development Division. I'm here  
24 to request your approval of three grant Agreements  
25 recommended for funding under Grant Funding

1 Opportunity GFO-16-301. The purpose of this  
2 solicitation was to fund applied research and  
3 development projects that develop technologies,  
4 tools, and strategies to enable higher penetrations  
5 of renewable energy; and that reduce technological  
6 and economic barriers to small hydropower,  
7 geothermal, and wind power generation.

8 This solicitation had three funding  
9 opportunities. The first group was expanding  
10 California's use of in-conduit hydrokinetic power.  
11 The second group, improving the cost-effectiveness  
12 and operational flexibility of geothermal energy  
13 production and the third group is upgrading  
14 California's aging wind turbines.

15 The agreements I am presenting today are  
16 only for projects that were recommended for funding  
17 under the geothermal group or Group 2 of this  
18 solicitation. This group was focused on developing  
19 new and advanced technologies, strategies, and tools  
20 that improve the cost-effectiveness and operational  
21 flexibility of geothermal energy production,  
22 extending the operating life of existing and new  
23 geothermal energy generation facilities.

24 The projects recommended for funding under  
25 Group 1, hydropower, and Group 3, wind, are expected

1 to be presented at a future business meeting.

2           The first recommended project is with SRI  
3 INTERNATIONAL. This is a lab-scale project that  
4 aims to develop a new low-cost process for the  
5 recovery of lithium from geothermal brines based on  
6 first, a new generation of high-capacity selective  
7 solid sorbents for the extraction of lithium; and  
8 second, a new eco-friendly sorbent regeneration  
9 process for the direct formation of high-purity  
10 lithium carbonate.

11           Compared to other methods for lithium  
12 recovery from brines, this process is expected to  
13 lower the cost of lithium production through online  
14 separation with higher recovery efficiency that uses  
15 a smaller volume of sorbents and reduces processing  
16 time. If successful, this project will provide  
17 opportunity to geothermal operators particularly in  
18 the Salton Sea region to recover valuable co-  
19 products such as lithium, thus helping to offset the  
20 high cost of construction and operation.

21           The next two agreements are with the  
22 Lawrence Berkeley National Laboratory or LBNL. The  
23 first agreement with LBNL is a field demonstration  
24 project at The Geysers that will evaluate the  
25 performance and advantages of using a micro-

1 earthquake imaging system in producing geothermal  
2 reservoirs. This earthquake imaging system uses a  
3 dense network of seismic stations and automated  
4 processing to perform high-resolution imaging of  
5 fluid movement.

6           This advancement is enabled by the recent  
7 development of low-cost, portable seismic recorders  
8 that allow for a high-density network of sensors.  
9 The field demonstration at The Geysers will provide  
10 an opportunity to test and refine the dense network  
11 design and fast-turnaround processing and imaging  
12 code base and workflows.

13           The expected benefit includes drilling more  
14 productive wells, avoiding drilling hazards, and  
15 optimizing production. This agreement will provide  
16 valuable information about fluid movements during  
17 injection and production processes to ensure  
18 effective and low-cost operation and development of  
19 geothermal resources.

20           The second agreement with LBNL is also a  
21 lab-scale project that aims to provide modeling  
22 tools that can be used by geothermal operators to  
23 gain a better knowledge and understanding of the  
24 impacts of flexible-mode production on the  
25 reservoir-wellbore system of both vapor dominated



1 and liquid dominated geothermal reservoirs, which  
2 expands current modeling to a wide range of  
3 geothermal resources. Such knowledge will allow  
4 development of power plant and control technology to  
5 allow geothermal power plants to operate in  
6 different variable modes, and to be both a base-load  
7 and flexible renewable resource. This will help to  
8 stabilize the grid and mitigate problems caused by  
9 intermittent renewables.

10 I am requesting your approval for these  
11 agreements, and I am ready to answer the questions  
12 you may have. Thank you.

13 CHAIRMAN WEISENMILLER: Thank you.

14 First, does anyone have any questions or  
15 comments, anyone in the room or on the line?

16 (No audible response.)

17 Okay, then let's transition to the  
18 Commissioners.

19 As the Lead on R&D I've sort of reviewed  
20 these. I think certainly we were trying to figure  
21 out how to really help geothermal move forward.  
22 Obviously it has some problems, first in terms of  
23 cost and second in terms of operational flexibility.  
24 And so hopefully these two contracts will -- there's  
25 been a number of approaches trying to see if we can

1 convert lithium up from a problem for Imperial  
2 Valley resources to another revenue source.

3 And also if we can figure out,  
4 understanding again the sort of flexibility base  
5 load. It's interesting, originally in the middle  
6 '80s, Unocal was pretty convinced they do cycling at  
7 The Geysers and tried to negotiate a contract with  
8 PG&E at that time -- unsuccessful negotiation.

9 But when Calpine tried to do it they really  
10 found adverse impacts on the field in the late '90s,  
11 so it would be good to get a better understanding of  
12 underlying phenomena there. So I think these are  
13 good investments. Hopefully they can help make  
14 geothermal more competitive.

15 Anyone else?

16 COMMISSIONER DOUGLAS: I'll just comment  
17 that I'm glad to see these investments as well. And  
18 that I'm looking forward to that work going forward  
19 and so I'll move approval of this item.

20 COMMISSIONER HOCHSCHILD: Yeah, and I would  
21 just add in order to compliment this we're going out  
22 with our new GRDA solicitation. And I've asked to  
23 staff to notify all the relevant members of the  
24 Legislature that that solicitation has gone out, so  
25 it's another 4.7 million. But the application is

1 due January 20th, which will help I think advance  
2 geothermal even more.

3 So did you get a second, do you need a  
4 second? I'll second.

5 CHAIRMAN WEISENMILLER: All those in favor?

6 (Ayes.)

7 CHAIRMAN WEISENMILLER: This passes 5-0.

8 Thank you.

9 Let's go on to Item 17, 2016 Existing  
10 Buildings Energy Efficiency Action Plan Update,  
11 Martha.

12 MS. BROOK: In September 2015, the Energy  
13 Commission adopted the Existing Buildings Energy  
14 Efficiency Action Plan. Soon after, Senate Bill 350  
15 was signed into law. The Clean Energy and Pollution  
16 Reduction Act of 2015 calls for a doubling of  
17 statewide energy efficiency savings by 2030, with  
18 the progress to be tracked and reported by the  
19 Energy Commission.

20 SB 350 also directs the Energy Commission  
21 to update the Existing Buildings Energy Efficiency  
22 Action Plan on or before January 1st, 2017 and every  
23 three years thereafter, with the intent that the  
24 Plan articulate the energy efficiency strategies  
25 needed to achieve the doubling of statewide energy

1 savings.

2           The 2016 Existing Buildings Energy  
3 Efficiency Action Plan before you now for approval  
4 is the update required by SB 350. Since the  
5 comprehensive Plan was adopted just one year ago,  
6 this update does not overhaul or replace it.  
7 Instead, the 2016 Plan Update summarizes actions  
8 taken over the last year to implement the 2015  
9 Action Plan. The 2016 Plan Update also summarizes  
10 the relevant legislative changes that have occurred  
11 after the 2015 Plan was adopted, and it includes  
12 changes to some of the strategies to better meet the  
13 original Plan's objectives.

14           Commission staff invited input from  
15 stakeholders in the summer of 2016, and incorporated  
16 this information into a draft of the 2016 Plan  
17 Update. A public workshop was held in October to  
18 present the draft update and to host public  
19 discussions on the Update contents. The document  
20 before you is the result of this staff work and  
21 public engagement, and I am here to answer any  
22 questions that you have.

23           CHAIRMAN WEISENMILLER: Thank you. Let's  
24 start with public comment. IBEW, all right? Do you  
25 want to come up again?

1                   MR. BARROW: Mr. Chair and Commissioners,  
2 Brett Barrow, IBEW-NEC LMCC again.

3                   I'd like to just briefly thank the  
4 Commission and rise in support of the Energy  
5 Efficiency Action Plan. I would also like to thank  
6 staff for working with us. And in taking some of  
7 our input, specifically calling out in Section 3 the  
8 need for incorporating contractor and workforce  
9 standards into the Energy Efficiency Program  
10 requirements. We really look forward to working  
11 with the Commission in the future on workforce  
12 standards as well compliance issues that would  
13 undermine the state's ability to realize its energy  
14 efficiency goals. So thank you.

15                  CHAIRMAN WEISENMILLER: Thank you.

16                  Anyone else in the room or on the line?

17                  (No audible response.)

18                  Let's transition to the Commissioners.  
19 Commissioner McAllister?

20                  MR. MCALLISTER: All right, this is a great  
21 meeting for energy efficiency. We're doing a lot of  
22 good stuff, so I'm not going to spend too long on  
23 this one. Yet we talked about the original  
24 Efficiency Plan not that long ago, September of 2015  
25 as Martha said, so it's been a little over a year.

1 And it's a living document and the stakeholders  
2 remain for the most part extremely engaged. I want  
3 to really thank Brett and all your colleagues.

4 I think we have moved over into a more  
5 integral workforce, integral incorporation into  
6 principles that really aligned well with you on  
7 workforce and quality. As the marketplace clearly  
8 needs to receive the signal that you get what you  
9 pay for and that quality matters and it's actually  
10 the cheapest long-term strategy. And then work  
11 through all the challenges to try to make sure that  
12 that is reflected in enforcement and through the  
13 environment of each individual project. And, you  
14 know, the workforce itself.

15 So since the original adoption of the  
16 Action Plan, SB 350 came through and it sort of  
17 became more of an explicit this is the document for  
18 the doubling in SB 350. And so a lot of the changes  
19 really reflect that in making it more integral,  
20 making that goal more integral to the strategies in  
21 the Action Plan.

22 But really I was heartened when we were  
23 doing this. Martha really led it and I want to  
24 thank you, Martha, and all the staff on the Action  
25 Plan. A lot of hard work, you know, major

1 strategies in the Action Plan where the AB 802  
2 Benchmarking Program made lots of progress, we're in  
3 the middle of that rulemaking and it's looking  
4 really good. And Benchmarking Disclosure, the local  
5 government effort that we'll hear about as well in s  
6 little bit, again a really core strategy.

7           So we're making progress on a lot of fronts  
8 and it's really good news, I think. And the Action  
9 Plan is a document that stakeholders have really  
10 engaged with in a way that I've rarely seen and it's  
11 very much of an active conversation. And I think  
12 staff is participating in a way that keeps it alive  
13 and makes it thrive, so that's what we need going  
14 forward. So I want to express my strong support.

15           So I'll just move or -- okay, great.

16           CHAIRMAN WEISENMILLER: Yeah, thanks both  
17 of you for moving this along. And again, connect it  
18 again into our 350-802 assignments. So let's go on  
19 to Item -- so again thank you --

20           COMMISSIONER MCALLISTER: I think we have  
21 to adopt the --

22           CHAIRMAN WEISENMILLER: No, I was going to  
23 say I think I made that mistake once, but now it  
24 says presentation.

25           MS. VACCARO: Actually, this one I think

1 requires Commissioners.

2 CHAIRMAN WEISENMILLER: It does again,  
3 okay.

4 COMMISSIONER MCALLISTER: Yeah, we're  
5 supposed to --

6 CHAIRMAN WEISENMILLER: Yeah, well that's  
7 twice in one day.

8 MS. VACCARO: We need a motion.

9 CHAIRMAN WEISENMILLER: Okay, a motion?

10 COMMISSIONER MCALLISTER: So I'll move Item  
11 17.

12 COMMISSIONER DOUGLAS: Second.

13 CHAIRMAN WEISENMILLER: All those in favor?

14 (Ayes.)

15 CHAIRMAN WEISENMILLER: This has been  
16 approved 5-0.

17 Let's go on to Item 18, Michael?

18 MR. SOKOL: Good morning Chair and  
19 Commissioners. I'm Michael Sokol, the Special  
20 Coordinator for implementation of Senate Bill 350,  
21 the Clean Energy and Pollution Reduction Act of  
22 2015.

23 Today I'll provide a quick status update on  
24 the Energy Commission's SB 350-related efforts. And  
25 then we'll hear a little more detail about two



1 specific activities that support implementation.

2           Earlier today, the Commission voted to  
3 adopt two items in support of SB 350, the Existing  
4 Building Energy Efficiency Action Plan Update, which  
5 you just heard and the Low-Income Barriers Study,  
6 Part A. These items represent the culmination of  
7 staff efforts over the past year and a lot of time  
8 and hard work has gone into completing those tasks.  
9 So I just want to take a second to recognize those  
10 efforts in addition to the recognition that was  
11 already provided.

12           Since the last month's update the Energy  
13 Commission staff continue to coordinate with other  
14 agencies and stakeholder groups on a variety of  
15 topics covered in SB 350. To ensure consistency and  
16 alignment of programs wherever possible,  
17 coordination efforts have included interagency and  
18 stakeholder discussions on the target-setting  
19 efforts for doubling energy efficiency by 2030,  
20 integrated resource planning guidance for the  
21 state's largest utilities, and Title 20 data  
22 collection effort to support SB 350 among other  
23 topics.

24           Several workshops and meetings have been  
25 held over the last month in support of these efforts

1 including on November 16th a Lead Commissioner  
2 workshop on the Title 20 data collection regulation  
3 updates, on November 21st an interagency confab on  
4 energy efficiency target setting with the California  
5 Public Utilities Commission, on December 7th a  
6 vehicle grid integration communication standard  
7 workshop to support transportation electrification.  
8 And yesterday, on December 13th, a Lead Commissioner  
9 workshop on renewables and energy storage to support  
10 Integrated Resource Planning.

11           Next, you'll hear brief updates on a couple  
12 of activities that support SB 350 implementation.  
13 The first item will be discussing the local  
14 government challenge administered by the Energy  
15 Efficiency Division. This challenge supports the  
16 goal of doubling California's energy efficiency by  
17 2030, by fostering innovative approaches to enable  
18 energy efficiency in climate leadership at the local  
19 level. This item will be discussed by Anne Fisher  
20 from Efficiency Division.

21           And then the second item is an update on  
22 the Energy Commission's efforts to develop  
23 guidelines for California's largest publicly owned  
24 utilities to submit integrated resource plans by  
25 January 29. An update on this effort will be

1 provided by Sylvia Bender from the Energy  
2 Assessments Division.

3 And now I'll hand off to Anne, to discuss  
4 the local government challenge.

5 MS. FISHER: Hi, thank you.

6 Good afternoon Commissioners and Chair, I'm  
7 Anne Fisher with the Efficiency Division and I'm  
8 here to provide information about a new program  
9 called the Local Government Challenge that supports  
10 the targets in SB 350.

11 In the Existing Buildings Energy Efficiency  
12 Action Plan adopted in today's meeting, the Local  
13 Government Challenge Grant Program is described  
14 under Goal 1: Increased Government Leadership In  
15 Energy Efficiency, specifically Strategy 1.7: Local  
16 Government Leadership, which calls for the  
17 engagement and recruitment of local governments to  
18 demonstrate leadership in energy efficiency through  
19 various programs, activities, and mechanisms.

20 Action Plan strategies, such as the  
21 Challenge, supports the targets of SB 350 and  
22 doubling of energy efficiency in existing buildings.  
23 The Challenge will help local governments facilitate  
24 more energy efficiency upgrades, demonstrate  
25 leadership by accomplishing deep energy retrofits in

1 government buildings, and become the resource for  
2 businesses, home owners, and property managers, and  
3 other decision makers looking for energy efficiency  
4 solutions.

5           As stated in the Action Plan, the Local  
6 Government Challenge leverages the relationships  
7 that local governments share with their constituents  
8 to promote innovative local agency policies and  
9 programs that advance the state's climate, energy,  
10 and code adherence goals.

11           The Challenge provides local governments  
12 with opportunities to plan, gap-fill existing  
13 efforts, and innovate. Grant awards will be given  
14 to promote performance-based efficiency improvements  
15 with the goal of grant awards being tied to actual  
16 energy savings achieved. Eligible project areas  
17 would include, but not be limited to, comprehensive  
18 efficiency upgrades for public buildings, early  
19 implementation of nonresidential benchmarking and  
20 disclosure programs, innovation in building  
21 permitting and code enforcement procedures, and  
22 data-driven community-wide energy programming.

23           The Local Government Challenge is funded by  
24 the American Recovery and Reinvestment Act, a total  
25 of \$10.2 million will be awarded in Challenge grants

1 in June 2017.

2

3 Any California city, county, special  
4 district or local government consortium is eligible  
5 to participate in the Challenge program. Selection  
6 criteria is structured to allow smaller and less  
7 affluent jurisdictions the ability to participate  
8 with a dedicated share of the funding. And larger  
9 local governments would have their proposals  
10 considered on the basis of innovation and a  
11 commitment to share all program implementation tools  
12 and infrastructure. Projects that are identified in  
13 disadvantaged communities using CalEnviroScreen will  
14 receive incentive points as part of the scoring.

15 The Small Government Leadership Challenge  
16 Program dedicates \$3 million of grant funding to  
17 local governments with populations less than 150,000  
18 people. The minimum award is \$250,000, and the  
19 maximum is \$1 million. These small grants are to  
20 help local governments with planning activities,  
21 such as Climate Action plans, or to plan or  
22 implement the strategies within a Climate Action  
23 Plan. Other planning activities will be considered.

24 The Energy Innovation Challenge Program  
25 dedicates \$7.2 million of grant funding to all other

1 local governments statewide, as well as local  
2 government consortium, like local government  
3 associations and regional energy networks. The  
4 minimum award is \$1 million, and the maximum is \$2  
5 million. These innovation grants provide  
6 opportunities for local governments to focus on new  
7 innovative energy efficiency deployment that would  
8 not happen otherwise. A requirement of the  
9 innovation challenge is that awardees must share  
10 best practices and implementation templates with the  
11 Energy Commission and other local governments.

12           The timeline to implement the Local  
13 Government Challenge is as follows. We anticipate  
14 releasing the Grant Funding Opportunity on December  
15 30th later this month. In January 2017, we'll host  
16 the Pre-bid workshop and at the end of February 2017  
17 the proposals will be due. In April 2017 we will  
18 post the Notice of Proposed Awards and at June 14,  
19 2017, the Business Meeting where grant awards  
20 considered.

21           The Efficiency Division plans to conduct  
22 broad outreach including, but not limited to: local  
23 government networks, regional energy networks, local  
24 government consortium, disadvantaged communities  
25 networks, CEC Listservs, funding opportunities

1 webpage, and diversity webpage.

2 Thank you. This ends the presentation of  
3 information, we are available to respond to any  
4 questions.

5 CHAIRMAN WEISENMILLER: Great. First, any  
6 comments from anyone in the room or on the phone?

7 (No audible response.)

8 CHAIRMAN WEISENMILLER: Great, let's  
9 transition to Commissioners, Commissioner  
10 McAllister?

11 COMMISSIONER MCALLISTER: Yeah, just  
12 quickly I wanted to maybe put out a little bit of  
13 context here and Christine Collopy who's really led  
14 this effort, put all these pieces in place, has been  
15 really key. And I want to acknowledge her as well,  
16 so chime in if I miss anything. And then thanks to  
17 Anne and the other staff in the Efficiency Division  
18 for putting this together. And I think Anne, you're  
19 on loan from the LAF Office and so thanks for taking  
20 this one.

21 The timeline is pretty short, we need to  
22 get the money out by the end of the fiscal year, so  
23 that's pretty accelerated but doable.

24 I guess really the big observation here is  
25 that local governments, particularly after we had

1 the boom and then we had the bust, and all the local  
2 governments laid off most of their people in their  
3 building departments. They really downsized what  
4 they did on buildings, they really sort of battened  
5 down the hatches and they've been on C rations ever  
6 since. And they've started back with the economy  
7 bouncing back, but they're really never going to get  
8 to those previous levels. I think they've kind of  
9 realized that that wasn't sustainable for the most  
10 part.

11           And so at the same time here we are at the  
12 state level, we've got building code, we've got  
13 these state mandates here and there. We've got the  
14 law of the land that everybody's supposed to comply  
15 with. But a lack of resources at the local level,  
16 which is where the authority is over buildings. So  
17 the building departments are there and they touch  
18 every single project. Every permit they have to do  
19 all of those processes and if they don't have the  
20 staff to do it then what do they do? They focus on  
21 health and safety and that's it sometimes. You  
22 know, obviously this is gross generalization, it's  
23 not the case all over the state, but in many, many  
24 cases there just aren't resources at the local  
25 level.



1           So we wanted to do two things with this  
2 swept ARRA money. We had some ARRA money that just  
3 didn't get utilized and some of it went to DGS and  
4 some of it we're keeping for this. And it was  
5 already oriented towards local government and sort  
6 of financing related efforts. And so this is not a  
7 u-turn, but it's a bit of a rededication of those  
8 funds to something similar but that we heard from  
9 stakeholders is really what they want.

10           So we're trying to do two things, one is to  
11 help disadvantaged communities who maybe are trying  
12 to get started with their clean energy efforts and  
13 their planning. And their implementation of things  
14 that maybe isn't completely innovative, maybe it's  
15 been done other places, but they need resources to  
16 do it. So those will be smaller grants on a  
17 noncompetitive basis. And then the other piece was  
18 for more innovative ideas that will be competitive  
19 and so really trying to get the local governments  
20 that won't move the needle, that will help the  
21 marketplace do efficiency better and scale it  
22 quicker.

23           So highlights for this program, I think we  
24 have all the infrastructure we need to manage it and  
25 to do the RFP and get it going. And I'm highly

1 optimistic about it, another area where the Action  
2 Plan recommendations are being moved forward. So I  
3 want to congratulate all the staff on getting this  
4 done.

5 CHAIRMAN WEISENMILLER: That's very good.  
6 Let's move on to b, Sylvia?

7 (Colloquy re: presentation slides.)

8 MS. BENDER: Thank you.

9 Good morning, Chair -- or good afternoon,  
10 we've moved along haven't we here, already. Good  
11 afternoon, Chair Weisenmiller and Commissioners, I'm  
12 Sylvia Bender, Deputy Director for the Energy  
13 Assessments division.

14 I am here to provide a brief update on our  
15 Integrated Resource Plan activities. As Michael  
16 said earlier, the Energy Commission is establishing  
17 the process for publicly owned utilities, the 16  
18 largest of those public utilities, to submit  
19 integrated resource plans to us for review. These  
20 plans, when aggregated with plans from the CPUC-  
21 jurisdictional entities, will allow for a more  
22 cohesive examination of how the different SB 350  
23 policies and mandates can fit together to achieve  
24 viable, efficient, and cost-effective greenhouse gas  
25 reductions for California, while maintaining

1 electric system reliability. Next slide.

2           Being able to compare and aggregate these  
3 plans effectively means ongoing collaboration and  
4 coordination with other agencies, divisions, and  
5 stakeholders along the way. Energy Commission staff  
6 in the Assessments Division are continuing that  
7 effort to keep the POU's informed as we work toward  
8 proposed guidelines. The Joint Agency Steering  
9 Committee, which is comprised of the CPUC, ISO, and  
10 ARB, and other identified working groups continue to  
11 discuss how this new planning effort may impact our  
12 current multi-agency forecast process alignment, the  
13 mechanism for allocating an electric sector GHG  
14 reduction target, and the possibilities standardized  
15 input assumptions or variables.

16           Commission staff is attending and  
17 participating in relevant workshops at the ARB and  
18 CPUC. Within the Commission, coordination also  
19 means leveraging workshops on relevant areas within  
20 SB 350, such as the recent transportation  
21 electrification, the RPS, and energy efficiency.  
22 Next slide.

23           In preparing the proposed guidelines, staff  
24 is considering three guiding principles:

25           First, IRP guidelines and reporting

1 requirements should be coordinated as much as  
2 possible with other POU reporting requirements to  
3 avoid duplicative requirements.

4           When aggregated, the IRPs submitted to the  
5 Energy Commission and those to the CPUC, should  
6 inform policy makers about the California's evolving  
7 resource portfolio, and assist in 2030 energy policy  
8 and planning efforts.

9           And finally, POUs should have flexibility  
10 to develop their plans in a manner that recognizes  
11 local planning goals and challenges, risks and  
12 uncertainties, but keeps entities moving toward the  
13 SB 350 procurement and GHG reduction goals. Next  
14 slide.

15           Energy Assessments Division staff is  
16 preparing a staff paper designed to inform and guide  
17 discussion toward the POU IRP guidelines. The paper  
18 will provide a preview of the proposed guidelines to  
19 be discussed in an early 2017 workshop. Comments  
20 will be considered in developing the final  
21 guidelines for adoption in summer of 2017.

22           SB 350 intends that these plans lay out the  
23 resource needs, policy goals, physical and  
24 operational constraints, and the general priorities  
25 or proposed resource choices of individual

1 utilities. Further, SB 350 requires that IRPs  
2 address procurement for energy efficiency, demand  
3 response, energy storage, transportation  
4 electrification, diversified areas of procurement,  
5 and resource adequacy.

6 Staff is currently envisioning these  
7 requirements. Two scenarios covering a planning  
8 horizon through 2030; some standardized input  
9 variables for use in calculations, for example, fuel  
10 consumption per light-duty plug-in electric vehicle.  
11 We're hoping by providing some of these standard  
12 assumptions and then having the utilities provide,  
13 of course their numbers in deployment, we'll be able  
14 to more easily compare these plans; and four  
15 standardized tables that are built on requirements  
16 that we already have for our IEPR. These tables  
17 would look at things like capacity resource  
18 accounting, energy balance, RPS compliance and GHG  
19 emissions.

20 And along with that there would narratives  
21 related to system reliability, local reliability,  
22 energy efficiency targets and programs,  
23 transportation electrification investments, storage,  
24 and planned transmission upgrades.

25 In sum, the guidelines would allow us to

1 assess and report through the IEPR to the Governor  
2 and Legislature how the POUs intend to use their  
3 future demand and supply resources to align with the  
4 energy policy goals in SB 350. Periodic updates  
5 will allow us to track progress toward the 2030  
6 electric sector GHG reduction goals, and the  
7 deployment of energy efficiency, distributed  
8 generation resources, and transportation  
9 electrification in disadvantaged communities.

10           And finally there is a schedule of our next  
11 steps. These are the proposed dates for workshops  
12 that are our internal workshops here. As I say we  
13 are also participating Friday in CPUC and ARB  
14 workshops that are related to this topic. January  
15 there'll be a workshop again, a joint workshop,  
16 related to the Energy Efficiency targets. But these  
17 are our internal ones focused specifically on the  
18 guidelines, which we are hoping to have adopted by  
19 July 2017 to allow the public utilities ample time  
20 to have these plans adopted by their boards January  
21 1st, 2019. And delivered to us by January 31st of  
22 2019.

23           So that concludes my presentation.

24           CHAIRMAN WEISENMILLER: Thanks, Sylvia. I  
25 think obviously as we move forward we need to be

1 coordinating with the PUC and ARB on these issues.  
2 At the same time our relationship is much different  
3 than the PUC's and the PUC will have a very  
4 prescriptive "you must run this model, you must run  
5 these assumptions, you must crank it through." And  
6 frankly, we're not in that position at all as much  
7 as trying to make sure we get something that we can  
8 at least figure out what their plans are, you know,  
9 and pull it together.

10           One of the early biannual reports, we got  
11 something from the LADWP, which made no sense, so we  
12 spent a couple of years trying to demonstrate they'd  
13 made no sense. And then I was doing some strategic  
14 planning for LADWP and they were like, "God, you  
15 took those seriously? We just thought we had to  
16 fill out the form and we just sat down one afternoon  
17 and filled out the form." So anyway trying to find  
18 the right balance here where we can actually, at the  
19 end of the day, talk about whether a plan is going  
20 to get the greenhouse gas reductions we need and the  
21 renewable numbers we need.

22           So anyway but it's as with many of these  
23 things it's sort of the first step of what's going  
24 to be a long process.

25           COMMISSIONER MCALLISTER: Can I ask one

1 question? So I guess I'm wondering, you know, these  
2 resource plans seem like the appropriate place to  
3 also ask the POUs to tell us what the role of  
4 efficiency, in particular the doubling that's in SB  
5 350, is going to be in their long-term plans. And  
6 I'm wondering how that conversation is advancing, if  
7 it is at all yet?

8 MS. BENDER: Well, it's going to be  
9 dependent upon the target-setting process as well,  
10 that will take place in 2017. So that will be part  
11 of where the actual target comes from and then how  
12 those might be allocated at will be a separate  
13 conversation following that.

14 CHAIRMAN WEISENMILLER: Yeah, I think it's  
15 probably better to think of our IRP process as  
16 trying to bridge across their silos and pulling  
17 information in. So I think we're going to be  
18 looking more to well say you on the energy  
19 efficiency doubling, Commissioner Scott more on  
20 what's going on in our transportation  
21 electrification, and Commissioner Hochschild more on  
22 what other plans are on renewables. And somehow  
23 then trying to see how they all fit together in the  
24 IRP context.

25 COMMISSIONER MCALLISTER: Yeah, for sure.



1 I just want to make sure like that is the  
2 expectation that is set for all of those different  
3 things, because it all adds up to the whole that  
4 we're really looking for.

5 CHAIRMAN WEISENMILLER: Exactly. And it's  
6 important we continue to communicate, so we don't  
7 suddenly discover we were thinking you were doing  
8 something or vice versa --

9 COMMISSIONER MCALLISTER: Yeah, exactly.

10 CHAIRMAN WEISENMILLER: -- and discover a  
11 gap.

12 COMMISSIONER MCALLISTER: Great, thanks.

13 CHAIRMAN WEISENMILLER: Great, any other?  
14 Any public comments or questions?

15 (No audible response.)

16 CHAIRMAN WEISENMILLER: Okay. Let's go to  
17 minutes, Item 19.

18 COMMISSIONER SCOTT: I'll move approval of  
19 the minutes.

20 COMMISSIONER MCALLISTER: Second.

21 CHAIRMAN WEISENMILLER: All those in favor?

22 (Ayes.)

23 CHAIRMAN WEISENMILLER: The minutes are  
24 approved.

25 Let's go to Item 20, Lead Commissioner,

1 Commissioner Scott?

2 COMMISSIONER SCOTT: Great, so this is our  
3 End of the Year Report where we have a chance to  
4 recognize the staff and highlight some of our  
5 accomplishments. And I wanted to say thank you so  
6 much, to the Chair, for making time for us to be  
7 able to do that at the end of the year, at our End  
8 of the Year Business Meetings.

9 So one of the things I wanted to note,  
10 every month as you all know, at the Business  
11 Meetings we get to consider great projects. And  
12 hear about some of the exciting activities taking  
13 place here at the Commission, and there's a lot of  
14 diligence, expertise, and effort that staff that  
15 they continually put in every day to make that  
16 happen for us. And so I want to make sure that the  
17 acknowledge the terrific work that folks do every  
18 day to make sure that we've got these fantastic  
19 projects in front of us.

20 As Lead Commissioner on Transportation, I  
21 work most closely with the Fuels and Transportation  
22 Division and I would love to give my personal thanks  
23 to all of the staff and the management there for the  
24 great work that they do.

25 I wanted to highlight for you some of

1 Governor Brown's policies this year, and what we've  
2 been working on. Our transportation team has had a  
3 large focus on zero-emission vehicles, both battery  
4 electric and the hydrogen fuel-cell electric. And  
5 we've been working incredibly hard to stand up the  
6 infrastructure networks that are necessary to  
7 support those vehicles.

8           So over the past year we've made a lot of  
9 progress in growing California's hydrogen refueling  
10 network. Last year when I gave you this update, we  
11 had 11 retail hydrogen stations. This year we have  
12 25 and growing, so we're making some progress there.  
13 We're a quarter of the way to our goal of an initial  
14 100 stations.

15           These stations are not only building  
16 consumer confidence, but they're truly expanding the  
17 locations in which these fuel-cell electric vehicles  
18 can travel. And now there are three models  
19 available for people to purchase: the Hyundai  
20 Tucson, Toyota Mirai and the Honda Clarity, which is  
21 very exciting.

22           And as you all probably remember, maybe  
23 from my May update, I had a fantastic opportunity to  
24 drive from Southern California to Sacramento in a  
25 little caravan of fuel-cell electric vehicles with

1 Mary Nichols from the Air Resources Board, with  
2 Tyson Eckerle from the Governor's Office of Business  
3 and Economic Development. And we had a fantastic  
4 time and we actually demonstrated that yes, you can  
5 drive from Southern California up to Northern  
6 California in a fuel-cell electric vehicle. They  
7 are coming, we have about 800 of them on the road  
8 today.

9           And I'm excited about that. If you look at  
10 the chart that Secretary Moniz at the Department of  
11 Energy put out, where you start out with about 300  
12 battery electric vehicles and today we're at over  
13 500,000, I hope that we're on that same kind of  
14 trajectory right now seeing that began with the  
15 hydrogen fuel cells.

16           So on our hydrogen team, I want to thank  
17 Jean Barones and Phil Cazel the rest of the hydrogen  
18 team for the terrific work they have done in this  
19 space. They spent a lot of time really working  
20 hand-in-hand with the station developers, with the  
21 local permitting agencies, fire marshals, going to  
22 different city council meetings to get us to where  
23 we are today.

24           On the electric vehicle side, I won't give  
25 you too many details, because we saw a lot of that

1 in Brian Fauble's terrific presentation a little bit  
2 earlier today. But I will let you know that we  
3 worked with Caltrans, with the Air Resources Board,  
4 and the Governor's Office to successfully designate  
5 several routes in California as Alternative Fuel  
6 Corridors under the U.S. Department of  
7 Transportation's FAST ACT, so we're really excited  
8 about that, so that means we're going to get some  
9 signage on those corridors. So that you know that  
10 they can be -- you can charge up there or that you  
11 can fuel up your hydrogen there. And then we have  
12 quite a few that are called "signage pending," so we  
13 need to do a little bit more work there to continue  
14 the progress there. But it's pretty neat to have  
15 some national recognition for many California  
16 corridors.

17 And we also worked closely with the  
18 Governor Brown's staff and his team on the 2016 ZEV  
19 Action Plan, which was released just a couple of  
20 months ago. And I really want to say thanks so much  
21 to Jennifer Allan, to Leslie Barody, to Thanh Lopez  
22 and Noel Crisostomo for their great work there.

23 Another thing that we were focused on was  
24 the sustainable freight effort. As you know we  
25 delivered a report at Governor Brown's request to

1 Governor Brown of what the state could do on  
2 sustainable freight. I want to thank Andre Freeman  
3 and Larry Rillera for the great job that they did  
4 representing the California Energy Commission in  
5 coordinating with our Air Resources Board, with  
6 CalTrans, with Go-Biz and really all of the  
7 transportation-related agencies across the state, to  
8 be able to put that plan together.

9           Similar to our SB 350 Report, we've got the  
10 plan, the hard work is going to be getting the  
11 implementation of that done and getting the  
12 sustainable freight. But we're excited about that,  
13 our team has done a fantastic job.

14           And we've also continued our engagement  
15 with the six ports here in California. That's the  
16 Port of San Diego, the Port of Long Beach, Port of  
17 Los Angeles, Port of Hueneme, Port of Stockton, and  
18 Port of Oakland. And so we've been really working  
19 together modeled after our Department of the Navy  
20 partnership to find things that are mutually  
21 interesting to the ports and to the Energy  
22 Commission. As you can imagine, they're interested  
23 in things like resilience, so they're looking at  
24 microgrids. They are interested, of course, in  
25 cleaner transportation so we're looking at that as

1 well. They're interested in changing out their  
2 lights from the High Mast CFL lighting to LEDs.

3           One of the things that's really exciting  
4 about the lighting is when the Port of Hueneme  
5 really dug into it, it turned out to be so  
6 economical to change to the LEDs that they said,  
7 "You know what? We don't even need to use the ECCA  
8 Program to get there. We can just make this  
9 happen." So that's an exciting message that they  
10 can take to other ports. You don't actually  
11 necessarily need the financial assistance to be able  
12 to swap those lights. And Larry Rillera, Rey  
13 Gonzales, Mike Gravely, and my Adviser, Rhetta  
14 deMesa have demonstrated great leadership on these  
15 initiatives.

16           I won't say too much more about the  
17 Barriers Study, because we had a chance to talk  
18 about that earlier. But I do want another shout-out  
19 to the fantastic team who worked so hard to put that  
20 together for us.

21           Just a few more highlights, I wanted to  
22 talk about our Petroleum Market Advisory Committee.  
23 They've been busy this year. They've had four  
24 terrific meetings. They've done a lot of assessment  
25 of the entire petroleum system, so we've looked at

1 the pipelines, we've looked at the refineries, we've  
2 looked at the shippers, you know, any number of the  
3 components that go along with the petroleum market.  
4 And so I really want to thank the Committee Members  
5 on that for taking time and lending their expertise  
6 to the Commission. And our staff: Ryan Eggars and  
7 Susan Ejlalmaneshan, Samantha Arens and Gordon  
8 Shremp, for the work that they've put together in  
9 planning those meetings.

10           And it's been a busy year for my office.  
11 Commissioner Douglas and I are on eight siting cases  
12 together. And so I want say thanks so much to the  
13 Hearing Officers for the great work that they do.  
14 So that's Susan Cochran, Ken Celli, Raoul Renaud --  
15 who's retired and so hopefully having a lot of fun  
16 enjoying his retirement -- Raj Dixit, and Ralph Lee  
17 as well as Paul Kramer and our fantastic Siting  
18 Advisor Kristy Chew. She's just been a godsend for  
19 our office. Her knowledge and expertise that she  
20 lends to me and my staff has been fantastic.

21           I want to say thank you to John Kato who  
22 runs our Transportation Division. He joined earlier  
23 this year as the Deputy Director of the Fuels and  
24 Transportation Division. And he stepped into his  
25 new role right away, and he's certainly been shaking



1 things up with his innovative and creative thinking.  
2 He has been a lot of fun to work with, and I look  
3 forward to seeing what we'll be able to continue to  
4 accomplish under his leadership.

5 I want to say thanks to Elyse Cheung-  
6 Sutton, O'Shea Bennett, Tami Haas, and Yee Xiong on  
7 the great work they have done. We've been wanting  
8 to update the Transportation web page, so that it's  
9 really more modern looking. And that it's a lot  
10 cleaner and that it's easy to find the things that  
11 you're looking for on it. So they've done a  
12 terrific redesign, which we're hoping to get  
13 launched soon here either by the end of the year or  
14 early next year.

15 I wanted to highlight Alana one more time,  
16 just because of the terrific work she did with our  
17 Summer Institute this summer. It's fantastic to  
18 have the high school students have an opportunity to  
19 see lots of different career options and that the  
20 Energy Commission is a fantastic place to work.  
21 Sandy Louey from the media team, Barry Steinhart,  
22 Sarah and Sunday from OGA.

23 And then, of course, I love working with  
24 all of you my fellow Commissioners. I thank you for  
25 the collaboration and the partnership. I want to

1    thank Kourtney and Rob and Drew.  It's always  
2    wonderful to get to work with you, you guys really  
3    help make our jobs so much easier.

4               And then I want to say thank you to my  
5    terrific team from both earlier this year, so  
6    Courtney Smith who's moved on to our Renewables  
7    Division and Amie Brousseau who's moved on to our  
8    Efficiency Division.  And then my current team: Matt  
9    Coldwell, Rhetta deMesa and Monica Shelley.  As you  
10   all know without our advisers and our fantastic  
11   admins we wouldn't be able to get through the day  
12   much less a week or a month in a sane way.  So I  
13   want to say thank you to all of them.

14              I'm sure that I've left off a whole bunch  
15   of the wonderful people that we work with at the  
16   Commission, but wanted to highlight a couple of  
17   those accomplishments and a few of those folks.  So  
18   thank you much.  And Happy Holidays to everyone.

19              COMMISSIONER MCALLISTER:  Yeah, really hard  
20   to believe a year is almost done, another year.

21              So the Efficiency Division is one of the  
22   bigger divisions, maybe the biggest division, I'm  
23   not sure.  But I think it maybe has the most people  
24   in it, so maybe Rob can confirm that, but I believe  
25   it is.  It's up to 120 or 30 or something like that.

1 There's a lot of people, so you're all going to have  
2 to bear with me.

3 And as we saw in this meeting today, a lot  
4 happened in Energy Efficiency and there have been a  
5 number of meetings like that this year, actually.  
6 This was not the only one where we've had a lot of  
7 really great accomplishments in Efficiency. And so  
8 I just want to go through some of the  
9 accomplishments.

10 I'm going to do -- it's mind-boggling, it's  
11 spectacular, a lot of how we've pushed the  
12 efficiency discussion forward. And just the context  
13 is it's not checking box and doing what we have to  
14 do. It's not just oh we're past the deadline, we've  
15 got to crank this thing out. It's actually, we're  
16 changing the discourse I think on energy efficiency.  
17 And kind of refreshing the conversation in a way  
18 that's really going to be positive. And some of  
19 those pieces in the Barriers Report and certainly  
20 the Action Plan, they're really beginning to have an  
21 impact on the marketplace. And I think staff just  
22 deserves so, so much credit for keeping that -- just  
23 the level of discourse and engagement with  
24 stakeholders and their level of knowledge and  
25 expertise really is sort of up-to-date and

1 innovative and leading.

2           So the Existing Building Energy Efficiency  
3 Action Plan, that we talked about a little bit  
4 earlier, I have not yet mentioned Bill Dietrich.  
5 He's been in and out of the room today, but he is  
6 providing leadership in that office, the Existing  
7 Buildings Unit. And it's really great when you have  
8 a capable manager and a person who is passionate and  
9 also knowledgeable about the subject area, which he  
10 is.

11           And on my team is Martha Brook actually who  
12 did such a great job that I hired her into my office  
13 as my adviser. And Abhilasha Wadhwa, Laith Younis  
14 and Veronica Martinez on that team.

15           And on the Local Government Challenge, Anne  
16 Fisher, we saw that. And Christine, I want to thank  
17 you again for shepherding that process and  
18 continuing to do so going forward.

19           Also the statewide Commercial Building  
20 Benchmarking and Disclosure Program that is making  
21 great progress, and Erik Jensen is the lead on that,  
22 again under Bill's leadership, Martha B. and Laith  
23 also part of that team.

24           So Building and Energy Efficiency Standards  
25 is one of the main things that the Commission does.

1 It's a big deal. It's saved uncounted and untold  
2 energy over the 40 years of the Energy Commission's  
3 existence and it's a big team. So Christopher Meyer  
4 is the leader of that office, the Building Standards  
5 Office. And on that team Peter Strait is a  
6 Supervisor, Jeff Miller, Bill Pennington provides so  
7 much value. I don't know if he's in the room, but  
8 he's a lion of energy efficiency at this point in  
9 California. Marc Alatorre, Mazi Shirakh, Payam  
10 Bozorgchami, Danny Tam, Simon Lee, Gabe Taylor and  
11 Adrian Ownby. I mean, each of those names, I could  
12 go on about each of those people and how capable and  
13 how much value they're adding.

14           The Outreach and Education Unit around  
15 Title 24 is led by Chris Olvera as the Supervisor.  
16 And it's just a breath of fresh air whenever I get  
17 an update from those folks, because they are out  
18 there, they're getting questions, they are just  
19 inspiring trust across the state with respect to the  
20 Building Standards. And if you know the Building  
21 Standards and you've got it on your shelf, you know  
22 that inspiring trust about that is kind of a full-  
23 time job in itself. It's a complicated document,  
24 there's a lot to it, and it takes a lot of  
25 handholding sometimes. And they do it really well,

1 so on that team is Daniel Wong, Javier Perez, Andrea  
2 Bailey, Alex Pineda and Paula David. So thank you  
3 to all of them.

4 Also in the Building Standards, in the  
5 implementation is the Building Standards Office  
6 again with Christopher Meyer. The software and the  
7 managing the development and maintenance of the  
8 software, the CBECC-Res and CBECC-Com, Todd Ferris  
9 is the Supervisor, Larry Froess, Dee Anne Ross, RJ  
10 Wichert, Thao Chau, Micky Shewmaker, Marc Alatorre  
11 again, Danny Tam, Mazi Shirakh. Some of these  
12 people are on multiple teams, just shows you how  
13 busy they are. And many of them have just become  
14 the knowledge base of the state on these issues.

15 (Ringing)

16 That was my time up. (Laughter) And really  
17 in this building there are colleagues and we know  
18 roughly what they do and occasionally we'll all get  
19 briefings from them when something of interest comes  
20 up. But out there in the world, thousands of people  
21 look to them for their expertise. And they pick up  
22 the phone and they call them. And they really, I  
23 think make an impact out there in the world, and  
24 take that very seriously.

25 So the Compliance Manuals, again is a big

1 task in and of itself. Some of the same names here,  
2 but Christopher Meyer again, Alexis Smith, Peter  
3 Strait's the Supervisor, and Bill Pennington, Marc  
4 Alatorre, Mazi Shirakh, Payam Bozorgchami, Danny Tam  
5 and Simon Lee and Gabe Taylor all are working on  
6 that as well.

7 The Title -- no, I think I covered that,  
8 okay.

9 The Compliance Enforcement Unit, let's see  
10 so that's under Bill Dietrich as well. And it's Joe  
11 Loyer, Randy Brumley, Veronica Martinez, Lea Haro is  
12 the Supervisor, Alex Wong and Suzie Chan, they do an  
13 amazing job.

14 The Alternative Compliance Manual,  
15 reference manuals for the Building Standards Office,  
16 again with Christopher is Larry Froess, and Dee Anne  
17 Ross, and RJ Wichert.

18 Let's see, on the Compliance and  
19 Enforcement, on that piece with Bill Dietrich is the  
20 Manager, is Joe Loyer, Randy Brumley, Tav Commins,  
21 Veronica Martinez, and Eddie Heriberto Rosales.  
22 Again, that team just knocks it out of the park.  
23 Let's see, lately I think they've been sending out  
24 the copies of the manuals, right? Across the state  
25 and Christine is nodding. That in and of itself is

1 a literally heavy-lifting task, because they're  
2 thick and there's 600 copies of this going out to  
3 building departments across the state. So they do  
4 that as well.

5 So I want to thank on the Outreach piece, I  
6 want to thank also Kelly Moriarty and Javier Perez,  
7 the Title 24 hotline staff, which is students from  
8 Sac State for the most part. Prop 39 hotline staff  
9 also staffed by lots of students. They do a great  
10 job and actually it's a really terrific training  
11 ground to get people into the Commission for those  
12 that are so inclined.

13 So let me see here, I will mention briefly  
14 the fact that we shepherd some of these stretch  
15 codes that local governments do. And our contact  
16 for that is Ingrid Neumann and she does a fantastic  
17 job. She's on Christopher Meyer's team and she  
18 really I think is developing again a brand that  
19 cities -- they like to work with her and it really  
20 helps them get what they need from the Energy  
21 Commission to bring forward their local codes, local  
22 ordinances.

23 Okay. So on Appliance Efficiency, that's a  
24 whole -- okay, here we go, sorry I got a little  
25 turned around. So we did the Computers and Monitors



1 today, but we have a lot of proceedings in various  
2 states these days. And the Computers and Monitors,  
3 we went through that this morning. I left off  
4 Michael Murza actually, who is also Legal on that,  
5 so thanks to him. That team is great.

6           The General Service LED Lamps and then  
7 Small Diameter Directional Lamps, we got that one  
8 through this year. I mean, we're talking many  
9 hundreds of gigawatt hours saved over time with that  
10 one, so Harinder, Ken Rider, Jared Babula and  
11 Michael Murza again on the Legal team for that one.  
12 The Voluntary Lamp Specification with Soheila and  
13 Pat Saxton, Pete Strait, Gabe Taylor, Leah Mohny  
14 who's the Supervisor and Michael Murza and then  
15 Angela Wuerth on the Legal added to that one as  
16 well.

17           On Water Devices, Pool Pumps and Portable  
18 Electric Spas, there's a staff report, we're moving  
19 that one forward. Sean Steffensen is our expert on  
20 Water Devices and is just fantastic as is Ben  
21 Fischel. That's Lisa DeCarlo and Michael Murza on  
22 Legal as well.

23           The Drought Executive Order, Sean and Leah  
24 Mohny are leading that piece of it, which we have a  
25 small piece of.

1           And on the Database, this is something that  
2 definitely deserves highlighting, the Modernized  
3 Appliance Efficiency Database System. This is the  
4 system that every manufacturer with a device that is  
5 required to be listed in California, like the  
6 Computers and the Monitors from this morning and  
7 everything else that we regulate. And many are  
8 informational, they're maybe not regulated, but  
9 informational data has to be put in there.

10           The rolling out of this new database has  
11 been a huge success. I mean, it's gone basically  
12 without a hitch and it's much more interactive, it's  
13 better for us, it's better for the industry,  
14 lowering costs across the board and providing better  
15 information to us and everyone else. So Christine  
16 Awtrey led that effort and did just a really great  
17 job. And that's Ben Fischel, Galina Dushenko,  
18 Carlos Baez, Betty Chrisman, Carolyn McCormack, and  
19 Leah Mohny is the Supervisor.

20           Let's see, earlier the Appliance Efficiency  
21 Standards, again Outreach and Education on Air  
22 Filters and Deep Dimming Fluorescent Lamp Ballasts  
23 and HEPA Water Chilling Packages, that came into  
24 effect in July. Bruce Helft, Carlos Baez, Pat  
25 Saxton, Jeff Miller and Leah Mohny all helped that

1 go successfully and smoothly.

2           So we also do a lot of participation at the  
3 federal level, and who knows what that's going to  
4 look like going forward. We really, I think, have a  
5 lot of question marks about what the Department of  
6 Energy and the Feds in general are going to be doing  
7 on Appliance Efficiency Standards. Historically,  
8 they've been a partner with us and we've worked  
9 really kind of hand in glove, sometimes without  
10 direct communications depending on the legal  
11 situation, but often as partners. And helping each  
12 other in taking up whatever slack might exist out  
13 there. Doing the work that needs to get done.

14           And so we participate in various ways with  
15 them on the Advisory Committees, submitting  
16 comments, really just trying to move the needle in a  
17 way that helps California. And so Kristen Driskell  
18 manages that, the strategy for when and how we  
19 participate in there. But the whole Appliances team  
20 really pitches in big on that.

21           So a lot of people in the Efficiency  
22 Division, I hope I didn't miss anybody, if I did I  
23 apologize. And I think that there are lots of other  
24 people that I think deserve some kudos. Let me find  
25 my notes here, I've gone through like six pages,

1     sorry hold on just a second.   Here's my notes, okay.

2                 In conclusion I have the following 30  
3     people in addition.

4                 CHAIRMAN WEISENMILLER:   In your errata?

5                 COMMISSIONER MCALLISTER:   So yeah, exactly.  
6     This is my second errata I guess.   But yeah, let me  
7     just so it.   All of you, it's such a thrilling time  
8     really to be in this field, because we're doing so  
9     much.   It's hard, you know, there's lots of  
10    technical detail.   We have a lot of stakeholders who  
11    need stuff and who want stuff and not everybody  
12    always agrees on everything, obviously.   And a lot  
13    of this sounds very technocratic, for sure.   But at  
14    the end of the day we're saving a lot of energy,  
15    we're making buildings better, we're doing any  
16    number of things that really improve people's lives.  
17    And the professionals that are here at the Energy  
18    Commission, they're the ones doing it.   I mean, they  
19    know it.   I mean, that's why they come to work and  
20    they come with motivation every day, so they deserve  
21    a little bit of kudos for that.

22                So let's see, I want also thank Susan  
23    Cochran.   I don't have as many cases as you and  
24    Commissioner Douglas do, Commissioner Scott and  
25    Commissioner Douglas, but with Susan Cochran and

1 Paul Kramer working with them on that is a pleasure.  
2 And Kristy obviously is fantastic.

3 I wanted to really thank Dave Aschuckian  
4 and Christine Collopy who keep the Energy Efficiency  
5 Division running and I think it's a big ship. And  
6 there's a lot of turnover, people coming and going,  
7 people shifting responsibilities. And you know, we  
8 have a number of vacancies and they're really  
9 working on filling those spots and making sure we  
10 have teams that can get the job done that needs to  
11 be done at a high quality, with a high quality. So  
12 thank you for that.

13 One the IT front the Efficiency Division  
14 really depends increasingly -- and on a lot of the  
15 data work we're doing and on the databases and some  
16 of the infrastructure that we're trying to build  
17 going forward -- really has developed a great  
18 relationship with the IT folks. And Steve Bonta and  
19 his team I think are really stepping up to the plate  
20 and are extremely knowledgeable.

21 On the Media side Amber Beck, I have to  
22 recognize. She does such a fantastic job for us.  
23 She's the Lead on the Energy Efficiency stuff. I  
24 mean, you've seen her in action today for the  
25 Computers and Monitors. We had a great press

1 conference earlier on that with everybody around  
2 table answering questions with reporters and she  
3 just did a fantastic job. So Albert Lundeen there  
4 is really running a great shop there as well.

5           And I have to call out Barry Steinhart,  
6 again the work with the Legislature, just keeping  
7 track of all the stuff that's going on there. And  
8 keeping us all informed.

9           And finally, I think I can say finally  
10 there, I want to thank my own staff: Bryan Early,  
11 Martha Brook who is my most recent, and is already  
12 adding a ton of value. And also Pat Saxton who  
13 Martha stepped into Pat's shoes and he -- on many of  
14 the things that came to fruition today and in the  
15 past few Business Meetings -- Pat really did heavy  
16 lifting on. And it's come to fruition and he should  
17 definitely feel a huge sense of accomplishment there  
18 as well. And Donna Parrow, my Adviser, my  
19 Administrative Assistant, who keeps my life sane.  
20 So I very much appreciate that and she does a  
21 fantastic job.

22           So and then I want to just thank Rob and  
23 Executive Office, Drew Bohan, you guys are great to  
24 work with and Chief Counsel, Kourtney, it's  
25 certainly great to work with you as well.

1           And my colleagues. I learn stuff from you  
2 all every day, so it's really terrific to be here.  
3 So thanks very much.

4           COMMISSIONER DOUGLAS: Great, well thank  
5 you. And it was a big day for Efficiency as I said  
6 earlier, and then it just kept getting bigger so  
7 congratulations to the Efficiency team. So I'd also  
8 like to take a moment to recognize the hard work and  
9 long hours put in by many Energy Commission Staff  
10 and to offer my own personal appreciation and thank  
11 yous for that work.

12           In 2016, I was Lead Commissioner for the  
13 IEPR, DRECP and various other sort of planning  
14 efforts, Siting. I've been on every active siting  
15 case or amendment committee in 2016, largely with  
16 Commissioner Scott although also with Commissioner  
17 McAllister. And I continue to be involved in  
18 compliance and some enforcement and legal matters as  
19 needed. And so I just think across the board I've  
20 been very impressed with the output this year and  
21 work ethic and commitment to mission.

22           In the Siting Unit or subdivision, a big  
23 thank you to the staff in that Division. We've  
24 worked on 11 active cases, some of them have had  
25 just tough timelines. And just real need for rigor

1 around meeting deadlines and getting analyses done  
2 in a time-efficient way. And every case has  
3 approximately 30 staff engaged. These include  
4 project managers, engineers, biologists,  
5 archeologists, attorneys, project assistants. It's  
6 pretty rare that the staff in the trenches on siting  
7 get a whole lot of public appreciation for a lot of  
8 their hard work and efforts. But they are vital to  
9 meeting our mission and really key to a lot of our  
10 accomplishments.

11 I want to offer a particular thank you as  
12 well to Tom Gates, Gabriel Roark, Matthew Braun in  
13 the Cultural Unit especially, for their outreach and  
14 work with Native American tribes. We've done a lot  
15 of that outreach and we've made just a great amount  
16 of progress in 2016 and going back before that 2015-  
17 2016. And even going back before that, I mean we've  
18 really spent years building relationships. And a  
19 lot of that work has come to fruition in the sense  
20 that we have some well-established and good  
21 relationships with a lot of the Native American  
22 tribes that we work with.

23 A thank you, as Commissioner Scott pointed  
24 out, to Kristy Chew in her role as Technical Advisor  
25 to the Commissioners on siting matters. To all of



1 the hearing officers and legal staff who support the  
2 Hearing Office. I would read their names, but  
3 because Commissioner Scott's done that I think will  
4 pass. But I'll mention also the support staff:  
5 Darlene Burgess, Cody Goldthrite, and Maggie Reed,  
6 the Dockets Unit. You know this is just really part  
7 of some of the mechanics that make this place work  
8 and so really, really good to see everyone stepping  
9 up and helping us get the work done.

10 A big thank you to the Public Adviser, and  
11 everyone in the Public Adviser's Office, your work  
12 is essential. And it's so valuable and you guys are  
13 really the front lines, and very often, in terms of  
14 really engaging with the public and people who want  
15 to interface with the Energy Commission and may not  
16 know exactly how, and may not really have a lot of  
17 history. And you provide really essential guidance.

18 The DRECP came to a very major milestone in  
19 2016 with the signing of the Record of Decision,  
20 which puts it in effect across about 10 million  
21 acres of public land. And I think we're going to  
22 see going forward, that the certainty that creates  
23 for both where renewable energy can go and be  
24 streamlined on public lands, and quite a lot of it.  
25 And also how and where conservation can work and how

1 that interfaces with private lands, is going to pay  
2 a lot of dividends going forward.

3 So I'll thank the Energy Commission's team  
4 that focused on DRECP: Scott Flint, David Vidaver,  
5 Kristy Chew, and Tom Gates in particular. And I  
6 think this might -- well, I'll wait on that.

7 IEPR, I'll go to IEPR, so the IEPR this  
8 year was an update, but it was still a very  
9 substantial document covering a wide range of  
10 topics. One of the biggest topics that we took on  
11 in addition to some of our -- well we took on a  
12 number of things. So let me just start: Aliso  
13 Canyon, transportation fuel supply reliability  
14 issues, updates on Southern California electricity  
15 reliability, methane leakage, climate adaptation  
16 activities for the energy sector, climate and sea  
17 level rise scenarios, the California Energy Demand  
18 Forecast.

19 So in addition to these topics we also took  
20 on an Environmental Performance Report. It's the  
21 first time that we've done this report in quite a  
22 long time. And it was, I think, very well received.  
23 We had a very strong team on the report: Jim  
24 Bartridge, Melissa Jones, Judy Grau, and Eli  
25 Harland. With strong support and help from the

1 step-division, particularly staff working under Matt  
2 and Erik as well as Al Alvarado, Scott Flint and  
3 others on the transmission and planning side.

4           And so that report, which looks at how the  
5 electricity system has changed on the ground, you  
6 know, not in terms of the operations and technology  
7 so much, but in terms of the environmental  
8 footprint. And how that environmental footprint has  
9 changed in the last decade or so, driven in very  
10 large part by conscious decisions made in our energy  
11 and environmental policy. And also responding to  
12 events that were outside of our control such as the  
13 shutdown of San Onofre, for example.

14           How we have changed over time and what that  
15 has meant for the footprint and the environmental  
16 impacts, and environmental performance of the  
17 system. And I think that this report just really  
18 tells a dramatic story of how this system has  
19 changed over time, become much less intensive in  
20 greenhouse gas emissions, much more efficient in  
21 terms of how it uses natural gas, much less coal.  
22 And I could go on, but I will just suggest the  
23 report to anyone who hasn't had a chance to take a  
24 look at it.

25           I'll give a quick thank you to Paul Jacobs,

1 the Commission's Deputy for Compliance Assistance  
2 and Enforcement.

3 I'll join my colleagues in thanking the  
4 staff again, who worked on the 350 Barriers Report.  
5 And join my colleagues in thanking Rob and Drew at  
6 the Executive Office, Kourtney Vaccaro our Chief  
7 Counsel, Barry Steinhart our Legislative Director,  
8 Albert Lundeen and his staff in the media shop. My  
9 Executive Assistant, Ollie Awolowo, without whom I  
10 would really be underwater most of the time. And my  
11 advisers, Le-Quyen Nguyen and Jennifer Nelson.

12 And I will mention, because this is the  
13 Commissioner's Report and we'll do a little more  
14 than year-end wrap-up, that yesterday the Governor  
15 and Department of Interior -- I probably should have  
16 started with this I realized halfway through. The  
17 Governor and Department of Interior signed an MOU  
18 that is a continuation of the close coordination  
19 that the state, and the agencies under Department of  
20 Interior, have had on renewable energy planning and  
21 permitting.

22 It adds offshore as well as onshore  
23 renewables into the MOU. And so it added a host of  
24 new agencies that have been less involved in the  
25 onshore effort, but who will be central to the

1 offshore effort. And it I think will be a very  
2 valuable tool in helping us bring a lot of the  
3 partnerships and methods that we really developed  
4 and worked on in onshore permitting and planning, to  
5 the offshore issues. As well as continuing the  
6 partnerships that we've had and we certainly hope to  
7 continue going forward. And the MOU I think is a  
8 very strong statement to that effect.

9           So with that I'll pass this on to  
10 Commissioner Hochschild.

11           COMMISSIONER HOCHSCHILD: Great, well thank  
12 you and ditto to all that. And thanks to everyone  
13 here for making it through this marathon meeting.

14           I will just say, yeah to restate the  
15 obvious, we're entering a whole new chapter in terms  
16 of the politics around the issues we're working on  
17 in energy here with the national landscape. And our  
18 role becomes more important than ever. I'm really  
19 personally incredibly proud of the work we're doing  
20 and I love the job, it's enormously fulfilling and  
21 challenging. And you see the impact of it the  
22 further -- you see it more clearly the further you  
23 get away.

24           And as I've traveled to other states and  
25 countries it's just become even more crystal clear.

1 I don't think I've had the opportunity to share on  
2 the trip to Marrakech for the Climate Summit. I can  
3 just briefly recap that, because it was a good  
4 example of what I'm talking about. But we had  
5 Senator Leon actually joined Ken Alex and Matt  
6 Rodriguez and Yee Chang (phonetic) and some others,  
7 myself, on this trip. And it's just a real  
8 statement, I think, of the commitment of the  
9 Legislature to these issues.

10 And California was really received like a  
11 country there and the interest in our progress at  
12 every level on renewables and efficiency, electric  
13 vehicles, was extraordinary. And I'm happy to  
14 report now with the Under 2 MOU that's been such a  
15 big priority for the Governor, there's now 166  
16 signatories representing 35 percent of Global GDP.  
17 So no matter what happens with Paris that is in  
18 place and growing. And the Energy Commission has  
19 just been at the heart of so much of our progress.

20 So with respect to my Division, my sincere  
21 thanks to the whole team, especially Courtney Smith.  
22 Because I think where we're pushing really to  
23 streamline as much as we can, and we're having a new  
24 electronic system for the RPS that's going into  
25 effect in a few weeks, and with NSHP as well we're

1 really making the process and everything we do as  
2 friction free as it possibly can be. And my  
3 gratitude to Emilio Camacho, Ken Rider and Kathleen  
4 as well.

5 Just a couple of other little highlights,  
6 lately we did -- Commissioner Douglas and I had the  
7 workshop yesterday on the IOPs for the POU's. A  
8 really fruitful exchange and you see utilities like  
9 Palo Alto who are not talking about how they're  
10 going to get to 50 percent, but they're talking  
11 about how they already got there. And we're in 2016  
12 and good to see some leadership.

13 And in this sort of soft power versus hard  
14 power that we have, I think of the hard power being  
15 the money and the regulations we put out and the  
16 soft power being the convening I think it's really  
17 valuable to have those forums for the POU's to  
18 exchange information. And I want to thank  
19 Commissioner Douglas for particularly speaking about  
20 some of the permitting challenges and opportunities.

21 And then on the Offshore Wind piece as well  
22 a lot of interest in that. One highlight I'll note,  
23 I met with Danish Oil and Gas, which is the largest  
24 offshore wind developer in the world. And they have  
25 now gotten offshore wind costs down to 6 cents a

1 kilowatt hour compared to Rhode Island where the  
2 first U.S. project is 24 cents. So big progress  
3 there and the Governor has launched this taskforce,  
4 so my sincere gratitude again to Commissioner  
5 Douglas for leading this new effort.

6           You know, you have not only much more  
7 experience on these sort of planning and permitting  
8 issues, but the patience of Job in dealing with all  
9 of the necessary machinations you need to do with  
10 all the other agencies for us to be successful.

11           And then finally, we'll continue this guest  
12 speaker program. We've had over 50 guest speakers  
13 now come in over the last four years since I've been  
14 on the Commission. And I want to thank Albert and  
15 the Communications team. He's actually bought some  
16 new equipment to record these folks as we highlight  
17 California clean energy and clean technology success  
18 stories and make a podcast of each of those  
19 speakers. So I know Commissioner Scott, you had an  
20 idea for potential speaker next time as well. And  
21 any other Commissioners who want to bring someone  
22 in, Albert is going to be heading that up.

23           And I'll stop there. Thank you.

24           CHAIRMAN WEISENMILLER: So obviously, my  
25 context is I cut across a lot of the organization,



1 not necessarily some areas in depth but generally a  
2 high level. So I'm going to really on a lot of  
3 things say, "me too" to what people have covered.

4 But I'm just going to start with at least  
5 two quick announcements. One of them was I was  
6 going to point to the 29 Palms even that  
7 Commissioner Douglas and I did. And I would point  
8 out that it was a rare opportunity to see a solar-  
9 powered howitzer, if you want to think about that  
10 for a second, or take a flight in a C-130.

11 In a whatever more somber note, god only  
12 knows it seems like this is just the time of our  
13 lives, but Jim Harding passed. Most of you don't  
14 know Jim or know of Jim. Jim was at the Commission  
15 actually when I came on board. He was a very  
16 seminal guy in the nuclear area. I would just point  
17 to two things, I mean he was at Friends of the Earth  
18 before he came to the Commission. And there's a  
19 really nice "Earth Island" story about his life.  
20 But anyway the two things I would note quickly as  
21 highlights.

22 One is well he was just out of high school,  
23 actually at that point SMUD was thinking of  
24 something called Rancho Seco 2 (phonetic) and Jim  
25 decided, as a hobby, to really get into the

1 economics of nuclear. And by the time he was done  
2 it just drove a stake in his heart, which actually  
3 given TMI and Rancho Seco 1, it really saved  
4 Californians billions, was the bottom line.

5           And the other thing he did was when he was  
6 with Friends of the Earth, he hired this little  
7 Oxford don. And he came by periodically to see us  
8 when I was here and sleep on Jim's couch and many of  
9 you know him as Amory Lovins. But anyway, again I  
10 think Jim certainly had a major contribution in some  
11 parts of energy issues, particularly nuclear issues.  
12 So anyway I think all of us who knew him, obviously  
13 a lot of other characters of his life, certainly  
14 saddened to see his passing.

15           So again, I'm going to spend a few, few  
16 minutes on trying to do highlights and just  
17 reflecting back. And I think sort of at a high  
18 level the three things that were most important to  
19 me this year were one, we had our diversity  
20 statements. But this was the year to really try to  
21 convert the words into actions and deeds. And I  
22 think we're making progress although there's more to  
23 do.

24           I think in terms of in particular, in the  
25 R&D area and the Fuels area, but again we also

1 signed the MOU with the Navy on partnering on  
2 renewable projects, fuel projects, energy  
3 efficiency. It's been a great relationship. I'm  
4 hoping it continues.

5           And then I would say in terms of sharing  
6 California's experience and success with other  
7 jurisdictions, we really carried a lot of the lion's  
8 share of the load on structuring California's  
9 participation in Sim and Sub-Sim. And certainly I  
10 know Sue McFadden (phonetic) really called out the  
11 role of Alana and Grant on that. So again, it  
12 wasn't easy but we pulled it off, which was good.

13           A lot of my focus is sort of 350  
14 implementation. And again, I would just point to  
15 what we've done on the Barriers. Point to what  
16 Michael's done on generally the effective project  
17 management across the boards there. And certainly  
18 the three of you have covered well, what's going on  
19 in renewables, energy efficiency and transportation  
20 electrification. You know, I'll point to some of  
21 the work in Sylvia's shop that's been going on, on  
22 like the energy efficiency target setting.

23           Certainly Mike Jaske, Sylvia -- your staff  
24 have really pulled together as we try to figure out  
25 what doubling energy efficiency means -- Malachi,

1 Andrea Gough, who really worked on how do we enhance  
2 our data collection to really get us to where we can  
3 move forward on it. I think Dave Vidaver, Garry  
4 O'Neil, Melissa Jones, as we try to figure out what  
5 integrated resource planning means. Certainly Al  
6 Alvarado, Grace Anderson, Misa Milliron on their  
7 work on the Regional Plan. They've been really  
8 important there. I think Ken Holmes has done a lot  
9 of legal support there.

10 Again, I think we've hit the Barriers  
11 Report very well, but again hats off to those folks.

12 I haven't talked about R&D and again I'm  
13 going to stay at a very high level there, but I  
14 think Laurie tenHope has done exceptional leadership  
15 and has a great team. So again, I'm not going to go  
16 through her org chart as much as say that they've  
17 done a phenomenal job in terms of administering the  
18 money in a way that we can be proud of.

19 You know, certainly moving the annual EPIC  
20 Symposium was important, the EPIC Challenge, the  
21 Energy Innovations showcase site and climate  
22 research, you know, for California fourth Climate  
23 Change Assessment was just huge. And obviously I  
24 want to thank Mike Gravely for his work with us on  
25 Department of Defense.

1           And Allan Ward, for his quiet work on  
2   dealing with the tons of contracts that we're moving  
3   out. I mean, we all know that if you march down the  
4   Chief Counsel's Office late at night, you're  
5   probably going to find Allan and Gabe there. Yeah,  
6   so anyways we appreciate that.

7           Again, I talked about electricity and  
8   natural gas, I mentioned Sylvia. The other part is  
9   certainly Lana Wong and Katie Elder on the Aliso  
10   Canyon stuff. You know, again it sort of happened  
11   on our doorstep, we had to deal with it.

12           I think we've gotten the first commercial  
13   end us survey out since 2008. And certainly Cary  
14   Garcia and Chris Kavalec are doing a lot of work  
15   there in terms of figuring out what's going on  
16   behind the meter of photovoltaics. How is it  
17   affecting our forecast? So again it's a really  
18   great group there.

19           I think everyone has pointed to Barry  
20   Steinhart and Sarah Smith on the Leg Office.

21           Obviously the Administrative Service  
22   Division does a lot of the I would say plumbing  
23   here. So again, I want to thank Rob Cook for he and  
24   his team's work on the Budget, Administration, and  
25   Building Operations. They keep the lights on and

1 things really going. Jana Temple, Gil Hernandez,  
2 Tisha Wong, and Dale Bosley for basically an  
3 accurate and efficient building system for the power  
4 plant siting now and reimbursement.

5 Media, obviously Albert and his team is  
6 doing really well I think. Also in terms of the  
7 Editing team Carol Robinson, Sandy Louey and the  
8 editing team for all those countless reports, which  
9 go out of here sort of looking like English.  
10 Although they didn't necessarily look that way going  
11 in, you know, particularly the Aliso Canyon Action  
12 Plan was important.

13 Hats off to Katie Kukulka, I mean the video  
14 stuff for Hoover it was just really phenomenal when  
15 suddenly she's sort of pulling Secretary Schultz,  
16 myself and Danny together to do a tape and just sort  
17 of splice it together to really get the message out.

18 On the IEPR obviously Heather Raitt and her  
19 team do a phenomenal job on getting that and making  
20 it almost look easy, although it's sure not. And  
21 Heather also helps me a lot on tracking progress and  
22 again that's an important document, a lot goes into  
23 that.

24 RETI 2.0, we're sort of wrapping that up,  
25 but certainly Brian Turner has pushed that along.

1 Scott Flint, Al Alvarado, I mean a lot of -- Tom  
2 Dowdy, a lot of folks have been part of the team to  
3 actually get that over the finish line.

4 I think we've all acknowledged each other  
5 as a key part, you know, of collegial space  
6 relationship. Rob and Drew, certainly our Deputy  
7 Division Directors, Public Adviser, Chief Counsel  
8 Kourtney Vaccaro and the rest of her team. And  
9 again, I'm not going to go through and identify all  
10 the attorneys down there that can keep us out of  
11 trouble.

12 And certainly, in terms of my office,  
13 Catherine Cross has certainly been in a critical  
14 role as I learn more and more every day with her  
15 out. And certainly I want to thank Doris Yamamoto  
16 and Laura Castenada for trying to help me keep  
17 somewhat organized as we go through.

18 And I've got a great team of advisers:  
19 obviously Kevin Barker, Jana Romero, Pam Doughman,  
20 Grant who -- and my new Senior Nuclear Policy  
21 Adviser, Justin Cochran. And the international  
22 team: Alana Sanchez, obviously Emilio and Fong Dai  
23 (phonetic) got me to and back from China and Mexico,  
24 which certainly was important.

25 And like I said at the beginning, the Sim

1 and Sub-Sim stuff was a real homerun that fell on a  
2 few people to really spend a lot of time. But it's  
3 really important to get all the details right, so  
4 again it's been a great year. I want to thank  
5 everyone for their help there.

6 So with that, let's transition to Chief  
7 Counsel's Report.

8 MS. VACCARO: Nothing to report other than  
9 that we will be going into a closed session and  
10 you'll be teeing that up before we go into closed  
11 session.

12 CHAIRMAN WEISENMILLER: All right.  
13 Executive Director Report?

14 MR. OGLESBY: Well, so much has been said,  
15 but I also want to extend my gratitude to the many  
16 dedicated staff here at the Energy Commission and  
17 the leadership as well.

18 Ditto to all of the comments you've made,  
19 but I also wanted to pull out the recognition of  
20 some Energy Commission staff who have made a life-  
21 long -- a clear long contribution to the Commission.  
22 And I can't name all of them, but to name of a few  
23 who have retired during this past year and deserve  
24 to be recognized for their long service at the  
25 Energy Commission. And included among those are



1 Mark Hutchison -- and we've had a slate of  
2 retirements, but Mark Hutchison; Suzanne Korosec,  
3 who did work with the IEPR and ended up with the  
4 Renewables Division after a very long career. And  
5 the last one I'll mention, although more deserving  
6 is Roger Johnson. Who did a great job first under  
7 Terry and then taking on the reins of the Siting  
8 Division.

9 Most at the top of my list for gratitude is  
10 Drew Bohan, Chief Deputy Director who makes my job  
11 easier and is an exponential factor in the  
12 effectiveness of the organization. And I'm glad you  
13 also praised him as well.

14 Our deputies Rob Cook, Ashuckian, John  
15 Kato, Sylvia Bender, Courtney Smith, Michal Lewis,  
16 and Laurie tenHope all were recognized and deserved  
17 it.

18 A couple of folks I want to add to the  
19 roster of appreciation. We have a stellar Budget  
20 Officer who assumed the reins of our Budget shop,  
21 Melanie Vail, this year. And she had spent her  
22 career with the Energy Commission, moved into that  
23 position, has done a great job stepping into those  
24 shoes which are very specialized. And require a lot  
25 of knowledge and great communication skills, which

1 she has.

2           Two other undersung heroes that helped make  
3 all that we do more effective, our Auditor In-Chief,  
4 Lisa Negri, who not only contributes to the  
5 effectiveness of the operation of all our programs,  
6 but has also devoted time making sure that those we  
7 interface with fulfill their obligations. And has  
8 done that very, very well.

9           Paul Jacobs has headed up our office for  
10 Compliance Assistance and Enforcement, made an  
11 immediate impact. And is raising the game of all of  
12 the Energy Commission staff that has an obligation  
13 to make sure that the rules and programs and  
14 standards we adopt are fully enforced. And so I'm  
15 very grateful for the team he's building as well as  
16 his leadership and experience that he brought with  
17 him.

18           Heather Raitt, Albert Lundeen, Barry  
19 Steinhart of course. Michael Sokol, I want to  
20 amplify his praise, because he's not only Barriers  
21 Report, but he's also been involved in coordinating  
22 the other elements of SB 350 including shepherding  
23 some of the -- being the guiding coordinator for the  
24 data management that we need to do in making sure  
25 that we're dealing with it responsibly and securely.

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1           And finally my own staff: Karen Bos, Laura  
2 Castaneda and Gloria Guthrie who make life easier.  
3 And thanks to all of you for your continued support.

4           CHAIRMAN WEISENMILLER: Yeah, actually Rob,  
5 you should also call out Steve from IT.

6           MR. OGLESBY: Indeed, Steve Bonta,  
7 absolutely.

8           CHAIRMAN WEISENMILLER: Yeah, exactly.  
9 You're right.

10          Sorry, Public Adviser Report?

11          MS. MATHEWS: Good afternoon, again. I  
12 first want to start off with thanking all of my  
13 staff. Ashley, Daphne who's new and brings a lot of  
14 great energy as my Executive Assistant -- many  
15 people stop by all the time and tell me what a great  
16 she's doing -- and Rose Mary Avalos, who joined the  
17 office in July of this year and is our Siting  
18 Specialist, so she's been very helpful. Especially  
19 with a lot of the translation and language needs  
20 that we've had.

21          I want to just introduce two people. Rene  
22 Macleay Santiago, if you can stand up? He's now the  
23 new Deputy Public Adviser here at the Energy  
24 Commission, a great addition to this agency. He  
25 comes from the Governor's Office Appointments Unit.

1 So in addition to having experience with  
2 environmental justice and environmental equity  
3 issues, he has connections with all 58 counties  
4 throughout the State of California. And so we're  
5 happy to leverage that as we do more targeted  
6 outreach to achieve our outreach goals for including  
7 all Californians in our programs and policies.

8 And then we welcome back Eunice Murimi, who  
9 is our AB 865 Diversity Coordinator, so she will be  
10 our key point person to implementing that statute,  
11 which encourages the Energy Commission to increase  
12 our diversity of funding opportunity applicants as  
13 well as the benefits of those programs.

14 And since I am on that, thank you, Eunice,  
15 I'm going to just transition very briefly to the  
16 Diversity website. It is updated and we have  
17 actually a feature item. We have listed the 2016  
18 Highlights, so everyone can go to the Diversity  
19 website and see what each Division has done to reach  
20 our diversity commitment goals. But I would like to  
21 just briefly talk about the Energy Commission.

22 This first highlight that we have is from  
23 the ARFVTP Program in which we funded not only a  
24 clean energy bus to have electric buses, but the  
25 members who work on that in Riverside are a reentry

1 into the workforce, so they are from prison to the  
2 work pipeline. And so we're really not only  
3 creating a cleaner environment for that community,  
4 which is a disadvantaged community, but we're  
5 actually bringing in an economic benefit.

6 So we hope to highlight more work that the  
7 Commission is doing in our funding programs and in  
8 our policy that's actually making a difference in  
9 communities across California.

10 A couple of other highlights, I guess when  
11 I'm wearing my AB 65 diversity hat, I had an  
12 opportunity this month to attend the Asian Chamber  
13 of Commerce. They had a business matchmaking  
14 session and Adam Gottlieb from Research and  
15 Development was able to attend with me. And it was  
16 a great opportunity to let diverse businesses know  
17 about the funding opportunities here at the Energy  
18 Commission.

19 And I also had an opportunity this week to  
20 attend the California Women in Energy. And I want  
21 to thank Commissioner Scott for providing that  
22 opportunity for me to attend. I was able to network  
23 with a lot of the women-owned businesses in Energy.  
24 Cathy Neal was there and she sang the praises of the  
25 Energy Commission as she is a recipient of one of

1 our funding awards and she is a woman of color who  
2 owns, I believe a biotech company.

3 A couple of other highlights, I just want  
4 to commend Energy Commission staff and programs for  
5 increasing their outreach with various workshops and  
6 notices being translated into different languages to  
7 reach for more Californians. I'm thankful for the  
8 opportunity to speak on both the state, regional,  
9 and national platform to talk about our diversity  
10 commitment as well as the 350 Barriers Report.

11 And lastly, just to mention that we doubled  
12 our participation in the Summer Institute in Energy  
13 Law and Policy Program. And I will be recognized in  
14 February of this year at UC Irvine for the work with  
15 the Foreign Law Academy, which includes the Summer  
16 Institute.

17 Oh, there is one other thing that I'd like  
18 to share, that we are kicking off the SB 350 Social  
19 Media Campaign. So I would like to thank Albert and  
20 his team, so we are continually raising awareness  
21 about the barriers and wanting to continue to engage  
22 disadvantaged communities and low-income customers  
23 about the barriers, their contribution, and how they  
24 can benefit from our clean energy policies.

25 And with that, that's it.

1           CHAIRMAN WEISENMILLER:   Okay.   Actually, I  
2   should also because different things pop up, but  
3   we've covered a lot of ground, and obviously one of  
4   the questions is who did we miss?   But I think we  
5   wanted also to give shout out to Dian Grueneich in  
6   Stanford for the intern assistance we got.

7           MS. MATHEWS:   Uh-huh.

8           CHAIRMAN WEISENMILLER:   Yeah, so any public  
9   comment?

10           (No audible response.)

11           Then this meeting is adjourned.   Actually,  
12   it's not adjourned, I'm sorry, if you could sort of  
13   keep me straight yet.   The Commissioners are now  
14   going into closed session with Legal Counsel  
15   pursuant to Government Code Section 11126(e) on the  
16   following items set forth in Agenda Item 21.   Energy  
17   Commission versus Mendota Bioenergy, LLC and Grant  
18   ARV-11-012 with Electricore, Inc.

19           We anticipate coming back here at about  
20   4:40, so we'll be back.

21           (Closed Session at 3:38 p.m.)

22           (Return from Closed Session at 4:50 p.m.)

23           CHAIRMAN WEISENMILLER:   Okay, back on the  
24   record.   This is Chair Weisenmiller, we're back from  
25   our closed session and this meeting's adjourned.

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(Adjourned at 4:51 P.M.)

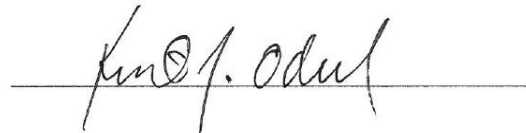


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IN WITNESS WHEREOF, I have hereunto set my hand this 28th day of December, 2016.

A handwritten signature in cursive script, appearing to read "Kent Odell", is written over a horizontal line.

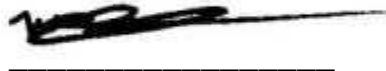
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IN WITNESS WHEREOF, I have hereunto set my hand this 28th day of December, 2016.



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