

BUSINESS MEETING  
BEFORE THE  
CALIFORNIA ENERGY COMMISSION

In the Matter of:                    )  
  )  
Business Meeting                    )  
\_\_\_\_\_                              )

CALIFORNIA ENERGY COMMISSION  
HEARING ROOM A, 1516 NINTH STREET  
SACRAMENTO, CALIFORNIA

WEDNESDAY, AUGUST 27, 2014  
10:00 A.M.

Reported by:  
Kent Odell

APPEARANCES

Commissioners Present

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

Staff Present

Rob Oglesby, Executive Director  
Alana Matthews, Public Advisor  
Michael Levy, Chief Counsel  
Kevin Bell, Senior Staff Counsel  
Christa Salo, Legal Office  
Laurie ten Hope, Director, Research Program

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Shahid Chaudhry	7
Christopher Olvera	8
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Joseph Douglas	10
Susan Wilhelm	11
Scott Flint	12
Brian Fauble	13
Michael Kane	14
Raquel Kravitz	15

Also Present (\* Via WebEx/Phone)

Public Comment

Bob Raymer, representing California Building Industry Association (CBIA)  
George Nesbitt, HERS Rater  
Mark Berman, Davis Energy Group  
Anna Osborne, Interface Engineering, S.F.  
Osama Younan, City of Los Angeles, Department of Building and Safety  
Javier Mariscal, Southern California Edison Company  
Fred Stefany, Lennar

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Public Comment

Jeff Harris, on behalf of Ivanpah Project  
Tim Sisk, Environmental Manager, NRG  
Mitch Samuelian, General Manager for Ivanpah  
Doug Davis, Environmental Specialist  
Gary Rubinstein, Sierra  
Robert Shearer, Training Consultant, California  
Electrical Training  
Jack Yapp  
Tommy Young, on behalf of EC-2013, an Ad Hoc Committee and  
Website "Energy Code 2013"

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P R O C E E D I N G S

AUGUST 27, 2014 10:10 a.m.

CHAIRMAN WEISENMILLER: Good morning.

Let's start the Business Meeting with the Pledge of Allegiance.

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

CHAIRMAN WEISENMILLER: So let's start with the housekeeping. First, in terms of the Consent Calendar we're moving Item 1A off the Consent Calendar and we're moving it to roughly, actually it's going to be between Item 6 and 7, and so that way we have all of the City of Los Angeles items in one place and we're moving it from the Consent so we can at least have some discussion of it. So the Consent will just be 1B.

Items 5 and 6 have been held, also Item 2 has been held.

So with that, let's start on the Consent, so Item 1B.

COMMISSIONER MCALLISTER: I'm going to recuse myself from Item 1B given that I am the Commission's representative on NASEO and they do reimburse some of my travel costs when I go to the Board Meeting out in D.C., so I'm going to recuse

1 myself.

2 CHAIRMAN WEISENMILLER: Great. We'll hold  
3 off until you're out of the room.

4 Okay, do I have a motion on 1B?

5 COMMISSIONER DOUGLAS: Move approval of  
6 Item 1B.

7 COMMISSIONER SCOTT: Second.

8 CHAIRMAN WEISENMILLER: All those in  
9 favor?

10 (Ayes.) So this item passes 4 to zero to  
11 one.

12 So let's go on to Item 3. And we'll hold  
13 off for a second while Commissioner McAllister  
14 comes back. Martha, if you can come up.

15 So Item 3 is 2013 Public Domain California  
16 Building Energy Code Compliance Software-  
17 Residential, CBECC-Res Version 3. And Martha  
18 Brook will be here.

19 MS. BROOK: Good morning. I'm Martha  
20 Brook with the Standards Development Office. We  
21 are seeking your approval of CBECC-Res Version 3  
22 as 2013 Residential Standards Compliance Software.  
23 Version 3 includes all previously approved  
24 features of 2013 Residential Standards Performance  
25 Compliance Software plus several new features

1 including increased processing speed, the ability  
2 to model additional cooling system types such as  
3 evaporative condensers and Central Ventilative  
4 Cooling Systems and the ability to model unlimited  
5 numbers of dwelling units in multi-family  
6 buildings.

7           This version of CBECC-Res also corrects  
8 software bugs previously identified, including  
9 compliance reporting errors, and also corrects an  
10 assumption concerning natural ventilation in  
11 multi-story homes.

12           These changes constitute a major change to  
13 the Compliance Manager as specified in the 2013  
14 Residential ACM Approval Manual, so private  
15 compliance software vendors must update their  
16 compliance software within 45 days. The backup  
17 materials for this item includes staff's technical  
18 review of this software.

19           If you choose to approve this item, you  
20 will also be approving the decertification of all  
21 previous versions of CBECC-Res, and also approving  
22 a resolution that provides delegated authority and  
23 clarifies your direction to the Executive Director  
24 to make future changes to the software as  
25 necessary to ensure it accurately estimates

1 building energy use and correctly implements the  
2 performance compliance approach for the 2013  
3 Residential Standards. It also authorizes the  
4 Executive Director to rescind approval of previous  
5 versions of CBECC-Res and vendor software that  
6 incorporates outdated Compliance Managers. Thank  
7 you and I'm available to answer any questions that  
8 you have.

9 CHAIRMAN WEISENMILLER: Great. Let's  
10 start with public comment. Bob Raymer.

11 MR. RAYMER: Thank you, Mr. Chairman and  
12 Commissioners. I'm Bob Raymer representing the  
13 California Building Industry Association. And  
14 we're in support of certificate of CBECC 3.0 today  
15 and, on a very positive note, we have been working  
16 with staff to work together and get the word out  
17 to our membership and to the CALBO membership that  
18 this change has been made and how it would impact  
19 production building that had shown compliance  
20 under earlier versions. So we appreciate the  
21 Commission staff to work with industry in getting  
22 the word out.

23 Looking forward on a related issue, please  
24 understand that, in addition to showing compliance  
25 with the existing regulations, we who participate

1 in the development of the next set of Regulations,  
2 particularly from the private sector, we use CBECC  
3 to do impact analysis of what's being proposed for  
4 the January 2017 Regulations. And to the extent  
5 that maybe we could use this particular version  
6 for a rather extended period of time would be  
7 great, primarily because in doing the impact  
8 analysis this will be sort of the fourth time that  
9 we've kind of started from scratch on this, and so  
10 we don't have unlimited supplies, we're the  
11 private sector, we're poor. We hope to get  
12 better, but right now my consulting budget is  
13 pretty thin. So with that, we're working with  
14 staff, Mazi and Company, to try to get a good  
15 handle on the next set of Regs and their impact,  
16 and we'll be using 3.0 and, to the extent we can  
17 continue using 3.0 for some period, that would be  
18 great. Thank you.

19 CHAIRMAN WEISENMILLER: Thank you. I  
20 would note that the Governor's observation is the  
21 State is poor, not as poor as it was a few years  
22 ago. Also, I think George Nesbitt.

23 MR. NESBITT: George Nesbitt, HERS Rater  
24 and I'm probably poorer than both the Government  
25 and the private sector. I've been a big supporter

1 of CBECC from the start and I've been impressed  
2 with it in general since I've been looking at it  
3 since May, June, a year ago. The biggest  
4 complaint had been lack of speed. On the way on  
5 the train on the way over I ran a couple test  
6 files, one of them in the current Version 2.0 ran  
7 in 3 minutes, 20 seconds; in the new Version 3.0,  
8 one minute, 20 seconds. Yay. Another one went  
9 from two minutes, six seconds, to one minute,  
10 three seconds. I still would like it faster,  
11 though. But it does take a lot of processing, so  
12 it pretty much just hit run and let the computer  
13 go and get on another computer and do work while  
14 you're waiting.

15 I also purchased the WriteSuite version,  
16 it's one of the things that is hopefully going to  
17 happen is a lot of different choices for being  
18 able to input and run things, although it's  
19 limited to single-family, I can create a multi-  
20 family model and export it, but I have found some  
21 issues with what I put in it and what I get when I  
22 go to CBECC-Res, so one of the difficulties we  
23 will always face is how well a third party  
24 interface actually interfaces with CBECC, and are  
25 we getting the right answer.

1           Other than that, yeah, more features,  
2 that's great, speed, yay, yay, yay. So keep up  
3 the good work.

4           MS. BROOK: Thanks, George.

5           CHAIRMAN WEISENMILLER: We also have Mark  
6 Berman on this item.

7           MR. BERMAN: Thank you, Commissioners.  
8 Mark Berman, President of the Davis Energy Group,  
9 and we work with the California Energy Commission  
10 in a number of capacities, as well as with the  
11 contractors that have been working on the  
12 development and improvement of the CBECC-Res  
13 Model. And it's very important, as we've heard,  
14 that the model be accurate and be as free of bugs  
15 as possible before it's released so the industry  
16 can rely on it for a long period of time. So I  
17 would like to just express my appreciation to the  
18 Commission and its staff for carefully going  
19 through and finding bugs, listening as others have  
20 found bugs, doing what they can to remove the  
21 bugs, and hopefully end up with an accurate model  
22 that can be used for quite some period of time and  
23 relied upon. Thank you.

24           CHAIRMAN WEISENMILLER: Thank you. Okay,  
25 I believe that's all the public comment, so let's

1 transition now to the Commissioners.

2           COMMISSIONER MCALLISTER: Yeah, so just a  
3 little bit of context here. So it was a little  
4 bit of a tough call for me whether to have this  
5 sort of qualify as a bug fix type update, or a  
6 more significant update, and I think just an  
7 accumulation of issues that were in this update  
8 kind of swayed me in the direction of asking that  
9 it be on the full agenda. It is a 3.0 upgrade, so  
10 a version upgrade, so 2.0 to 3.0 in and of itself  
11 sort of expresses that it's a significant update,  
12 but also combined with the tweak of the delegation  
13 authority, I think sort of was appropriate to have  
14 it be an item worthy of discussion.

15           And I wanted to say just on the delegation  
16 authority that, you know, I've been happy with the  
17 way we've sussed that out because if you think  
18 about software, it's something that the Commission  
19 does an increasing amount of, and particularly  
20 with the open source approach that we're now  
21 taking with CBEC-Res and Commercial, it really  
22 just requires quick turnaround for non-  
23 controversial bug fixes. And so the Executive  
24 Director really needs to be able to make that call  
25 and work with staff and make that happen quickly.

1           Of course, I expect, and I'm sure other  
2 Commissioners would legitimately expect that when  
3 there are controversial issues, or large issues  
4 that come up, that we need to work through those  
5 and likely get them on an agenda to be voted on if  
6 they are indeed controversial and generate lots of  
7 discussion within the marketplace. So the idea of  
8 approving new software without actually having  
9 given the authority to the Executive Director to  
10 rescind the existing software, so that we're clear  
11 on which software is the effective version, I  
12 think also makes perfect sense. So all of that is  
13 in this item today, so I'm certainly supportive of  
14 the collection of issues.

15           And going forward I think we have a  
16 clearer path of what goes to the Agenda on a  
17 Business Meeting and what actually is legitimately  
18 sort of in the realm of delegated authority.

19           CHAIRMAN WEISENMILLER: I guess the one  
20 question for you and Martha Brook, both, is Bob  
21 Raymer's request on keeping this version open for  
22 the Building Standards. So, Martha, do you have a  
23 reaction on that?

24           COMMISSIONER MCALLISTER: Maybe you could  
25 talk about sort of what the version upgrade, what

1 sort of the typical process for upgrading versions  
2 is.

3 MS. BROOK: So my understanding from Mr.  
4 Raymer is that he wants some consistency out there  
5 for the 2016 analysis, so he would prefer not to  
6 see another significant change in energy budgets  
7 calculated from the software, so that they can do  
8 cost-effectiveness analysis along with staff for  
9 the 2016 Standards, which is well underway, right?  
10 And so I guess I would say that I really don't  
11 expect another significant change; if one does  
12 occur, it will be because something is identified  
13 that we don't know about today, and we would of  
14 course have to discuss that with you to decide,  
15 you know, is it absolutely necessary to update for  
16 the 2016 implementation, or could such an item  
17 that we don't know about yet be kind of put off  
18 until we make further changes in the 2016  
19 implementation on the software. But I think that  
20 Bob asked at a really good time because I think  
21 Version 3.0 is largely where we were hoping to get  
22 before we turned from pure development of new  
23 features to care and feeding ongoing daily support  
24 of the software. I think we are in that place  
25 now, so I think there's a very good chance that

1 Version 3.0 will be stable for a significant  
2 period of time.

3           COMMISSIONER MCALLISTER: What about  
4 adding sort of new modules, new equipment and  
5 stuff like that? That's contained, say, I mean,  
6 there are a number of mechanical options, say,  
7 that are not common, but as they come up and as  
8 the industry sort of helps develop those modules,  
9 those will get incorporated. You know, are those  
10 likely to maybe actually -- maybe Mr. Raymer could  
11 also respond to this -- but are those likely to  
12 affect the energy budget in a way that would be a  
13 concern to users?

14           MS. BROOK: Usually new features don't do  
15 that, so it's an underlying assumption like our  
16 ventilation assumption in multi-story buildings,  
17 those are the kind of things that affect every  
18 Code Compliance run if it happens to be in a  
19 multi-story building. But new features are  
20 usually just sort of added on top and they don't  
21 change any of the analysis results for anything  
22 that he would be working on, that didn't include  
23 that feature.

24           MR. RAYMER: Yeah. Bob Raymer with CBIA.  
25 I agree with what Martha just said, so we might

1 want to make note of that. Anyway, ancillary  
2 items that are put on sort of as computer  
3 peripherals, those are always nice to do any time  
4 and every time, but something that changes the  
5 fundamental basis of your basic energy analysis  
6 for your heating, ventilating, and air-  
7 conditioning budget, that's a big change, and all  
8 of a sudden that kind of renders previous cost  
9 impact analysis somewhat suspect. And so what we  
10 found in this update going from 2.0 to 3.0 is  
11 that, in particular with Climate Zone 7 and 10,  
12 you know, L.A. and San Diego, looking at a two-  
13 story single-family dwelling, there were some  
14 significant compliance margin changes. And so  
15 right now we want to get to our Board of Directors  
16 meeting in October, towards the end of October,  
17 and provide them with some rather competent cost  
18 impact analysis, and I don't suspect that we'll be  
19 seeing changes to that. Now, if you come on with  
20 a peripheral that helps do additions, alterations  
21 quicker, whatever, that's great and that could  
22 happen at any time. So, so far so good.

23 COMMISSIONER MCALLISTER: Well, terrific  
24 and I'm optimistic actually that we have this sort  
25 of underlying building model sussed out that it

1 will make the assembly of prescriptive packages  
2 and things like that sort of more straightforward,  
3 and so the back and forth can be quicker and the  
4 iteration on trying to get to some acceptable  
5 buildable packages can happen more quickly with  
6 industry and staff.

7 MR. RAYMER: Just like last time with the  
8 2013 Regs, we'll go ahead, take 3.0, do our basic  
9 runs for probably about five or six of the main  
10 climate zones, and then we'll get together with  
11 staff probably in the next two to three weeks and  
12 start getting a back and forth, make sure we're  
13 running it correctly, make sure they understand,  
14 and that way we can effectively do comparison  
15 analysis. Last time around, we were very close.  
16 For the first time in about 25 years, our cost  
17 impact projections were very close with staff, so  
18 we look forward to doing that again. Thank you.

19 COMMISSIONER MCALLISTER: Thanks.

20 CHAIRMAN WEISENMILLER: Great.

21 COMMISSIONER DOUGLAS: I don't have any  
22 more questions, I'll just comment that it's great  
23 that this has reached this point, I'm very  
24 supportive.

25 COMMISSIONER MCALLISTER: Well, I'll move

1 Item 3.

2 COMMISSIONER DOUGLAS: Second.

3 CHAIRMAN WEISENMILLER: All those in  
4 favor?

5 (Ayes.) Item 3 passes 5-0.

6 Let's go on to Item 4, which is 2013  
7 Public Domain California Building Energy Code  
8 Compliance Software, but this is Nonres. So  
9 CBECC-Com Version 3.0. And Martha Brook again.

10 MS. BROOK: Thank you, Commissioners.  
11 This will sound very familiar, but it is about  
12 Nonres software. We are seeking your approval of  
13 CBECC-Com Version 3.0 for 2013 Nonresidential  
14 Standards Compliance Software.

15 CBECC-Com Version 3.0 includes all  
16 previously approved features for 2013  
17 Nonresidential Standards Performance Compliance  
18 Software plus several new features such as the  
19 ability to model additional HVAC system types like  
20 evaporative cooling, water loop heat pumps, and  
21 dedicated outdoor air systems, the ability to  
22 perform compliance analysis on process spaces such  
23 as commercial kitchens, laboratories and data  
24 centers, and the availability of checklists that  
25 explain which additional compliance forms may be

1 required by Building Departments, depending on the  
2 scope of the project. This version of CBECC-Com  
3 also corrects software bugs previously identified.  
4 These changes constitute a major change to the  
5 compliance Manager as specified in the 2013  
6 Nonresidential ACM Approval Manual, so private  
7 compliance software vendors must update their  
8 compliance software within 45 days. The backup  
9 materials for this item includes staff's technical  
10 review of the software.

11           If you chose to approve this item, you  
12 will also be approving the decertification of all  
13 previous versions of CBECC-Com and also approving  
14 a resolution that provides delegated authority and  
15 clarifies your direction to the Executive Director  
16 to make future changes to the software as  
17 necessary to ensure it accurately estimates  
18 building energy use and correctly implements the  
19 performance compliance approach for the 2013  
20 Nonresidential Standards.

21           It also authorizes the Executive Director  
22 to rescind approval of previous versions of CBECC-  
23 Com and vendor software that incorporated outdated  
24 Compliance Managers. And I'm here to answer any  
25 questions that you have.

1           CHAIRMAN WEISENMILLER:  Okay, thank you.  
2  Let's again hear public comment on this.  I think  
3  we have two in the room and one on the phone, so  
4  let's start with George Nesbitt on Item 4.

5           MR. NESBITT:  George Nesbitt, HERS Rater.  
6  I haven't spent nearly as much time with the  
7  Nonres as Res, but I really need to start doing  
8  it.  I've really liked the fact that you do a  
9  graphical three-dimensional model.  I think one of  
10 the inherent problems we've had with energy  
11 modeling is what gets inputted into the computer  
12 may not actually be the building you're building.  
13 Some of that sloppy takeoff, you know, manually  
14 having to calculate areas, put stuff in, some of  
15 it is deliberate manipulation, well, if I add wall  
16 area, you know, I get a better result.  So  
17 although I guess in CBECC they added a manual  
18 entry because some people didn't want to do that.  
19 It's also nice to see that we now have some choice  
20 in software, it's not just EnergyPro.  My  
21 understanding, though, is the calculation times in  
22 CBECC Nonres have been much worse than the Res, I  
23 just heard someone say it took 12 hours on a  
24 project, apparently.  Don't know if that's true,  
25 but it may have felt like 12 hours.

1           So it's good to see that we're going to  
2 get multiple choices, and that we may have  
3 different methods of creating a model and  
4 inputting it. I do think ultimately it would be  
5 really nice if it is on some level graphical and  
6 that that's part of the compliance documentation,  
7 so that you can kind of see that it's a building  
8 that looks like the building. And then I guess  
9 currently there's EnergyPro is approved sort of  
10 interim, you know, so maybe Martha can speak more  
11 on calculation times and issues. I know that some  
12 features have been lacking, development seems to  
13 have been slower on the Nonres.

14           MS. BROOK: Want me to speak to processing  
15 time? So the Nonres software uses EnergyPlus,  
16 it's a first principles Building Energy Simulation  
17 Tool sponsored by the U.S. Department of Energy.  
18 It does have longer simulation times than its  
19 predecessor DOE .2, primarily because it is First  
20 Principles and doing very detailed calculations  
21 and not making simplifying assumptions. So the  
22 speed issues with EnergyPlus are known to the U.S.  
23 Department of Energy and they're working on ways  
24 to improve that, and it's basically an issue that  
25 the whole kind of international modeling community

1 is addressing and helping people, giving them  
2 guidance on how to get decent processing speeds,  
3 you know, basically how they can configure their  
4 models to minimize the time it takes to run  
5 through an annual simulation.

6 CHAIRMAN WEISENMILLER: Great. Let's go  
7 on to Robert Shearer.

8 MR. SHEARER: Good morning. I'm afraid I  
9 would be speaking out of order right now and will  
10 reserve my comments until the end because I filled  
11 out my speaker card wrong.

12 CHAIRMAN WEISENMILLER: Okay, that's fine.  
13 Thank you. On the line is Anna Osborne.

14 MS. OSBORNE: Good morning, Commissioners.  
15 My name is Anna Osborne and I'm an Energy Analyst  
16 at Interface Engineering in San Francisco. We  
17 have been working with CBECC-Com since its first  
18 Beta releases in April of this year, and through  
19 our process of learning CBECC-Com and submitting  
20 issues through their issue website, we have  
21 compiled a list of our own issues that we feel are  
22 imperative to make CBECC-Com a tool that will  
23 become effective and will best represent the  
24 designed building.

25 So I'm under the impression that the goal

1 of CBECC-Com was to create a basic framework with  
2 the goal of third party software developing more  
3 user friendly interfaces; however, I haven't seen  
4 this yet be the case. The current framework of  
5 CBECC-Com is prohibitive due to tedious input  
6 process, while IES has streamlined this process  
7 for a lot of the portions of the work flow, the  
8 HVAC inputs process still remains ineffective. So  
9 for simple buildings with a few Zones it's not  
10 really an issue, but for large buildings with  
11 maybe 100 zones or more, it's a significant  
12 increase in the time required to develop a model,  
13 and I'm not contesting simulation time, as Martha  
14 spoke, I'm well aware that EnergyPlus takes a long  
15 time to simulate, it's just developing and  
16 actually putting in all the input, and I think  
17 that's something that can be further developed.

18           So in addition to the interface issues, we  
19 see a major issue with the way Window geometry is  
20 determined. Through discussions with 360  
21 Analytics, we have found that when decreasing  
22 window/wall ratio to 40 percent in the standard  
23 building, for a proposed building with greater  
24 than 40 percent window/wall ratio, the window head  
25 height stays the same, while the window dimensions

1 are decreased. Since primary side lit day lit  
2 area is calculated based on window head height,  
3 keeping this height the same results in an  
4 artificially high savings in the standard design  
5 for lighting, while simultaneously resulting in  
6 unreasonable sill height for the standard design.

7 Finally, we see an enormous issue with the  
8 lack of ability to model any form of height  
9 recovery or VRF systems. VRF systems are not in  
10 the ACM, but we find them to be a common high  
11 efficiency system and we should be able to account  
12 for those in a compliance model. Heat recovery,  
13 on the other hand, is referenced in the ACM,  
14 several sections, and I question how software can  
15 be approved without including everything that is  
16 outlined in the ACM. There seems to be a  
17 disconnect between the ACM and the final product.  
18 I'm also aware of the proposed exceptional  
19 calculation method, which involves opening the  
20 EnergyPlus idea file and making edits in  
21 EnergyPlus that cannot be modeled in CBECC-Com;  
22 however, through discussions with the CEC staff in  
23 charge of this program, I have not been provided  
24 with clear answers about how this process will  
25 work, what the turnaround time is, and other

1 issues that are imperative to know how we can get  
2 our building compliance model approved. So  
3 knowing what the TDV energy is is imperative in  
4 the beginning of a project, and not just at  
5 permit, so I think the CEC needs to be able to  
6 outline that process very clearly before insisting  
7 that this is a non-imperative option.

8           The CBECC-Com Development Schedule is  
9 available on the website and it stops after  
10 Version 3.0, so it does not to my knowledge  
11 address any of these issues. So we're proposing  
12 that the CEC fund a development team to continue  
13 to another version to fix the method of  
14 proportionally decreasing window dimension, add  
15 heat recovery capability, add VRF systems, and  
16 improve usability. In addition, we request that  
17 the exceptional calculation method process be  
18 developed and finalized and the process be made  
19 clear. So thank you very much for the opportunity  
20 to speak today. I know the CEC has gone through  
21 an intricate process to develop this new software,  
22 and I know that there were a lot of huge steps  
23 that had to be taken, but we believe that the  
24 capability of the software should be at least  
25 equal to, but also be on that of previous

1 compliance software. Thank you.

2 CHAIRMAN WEISENMILLER: Okay. Thank you.  
3 Thanks for your comments. Staff, would you please  
4 respond and let's set up a process to resolve her  
5 concerns.

6 MS. BROOK: Yeah, I mean, it would be  
7 great to work with Anna on the issues list that  
8 she has instead of hearing it for the first time  
9 at a Business Meeting. So we did discuss the  
10 window dimension issue in detail and we really  
11 need to spend time with Anna to understand what  
12 her concerns are because we discussed options and  
13 decided that we had implemented the correct  
14 option, so we need to understand from her why she  
15 doesn't agree with us. The VRF capability in  
16 CBECC-Com is actually getting funded by the VRF  
17 manufacturer community, working with their AHRI  
18 member group for Variable Refrigerant Flow  
19 equipment manufacturers. So that is an example of  
20 why we established CBECC-Com as an open source  
21 software platform, so that it would enable other  
22 people to fund additional features in CBECC-Com  
23 that are beyond the resources that we have to  
24 bring to the table. Our resources will always be  
25 limited and we have for a very long time had the

1 option where private equipment manufacturers or  
2 other industry groups could fund features that the  
3 Commission then approves, but does not have to  
4 fund itself. So I think that's well underway.  
5 And we have heat recovery on our list, we have a  
6 lot of things on our list for CBECC-Com, so at  
7 some point we have to decide what we can afford to  
8 do for the 2013 implementation and what we have to  
9 wait until a further Code update implementation in  
10 terms of the availability of our resources.

11           So I just think I should mention briefly  
12 that CBECC-Com was designed on purpose to have a  
13 no frills user interface. We never intended, nor  
14 could we afford to fund a full featured, you know,  
15 design interface for CBECC-Com, and we also think  
16 that would be competing with the private market in  
17 a way that's not appropriate. So we really  
18 focused on the kernel, the Compliance Manager  
19 computational engine, and we do expect that over  
20 time Anna's complaints and other client complaints  
21 about interface issues will be resolved, just like  
22 they are in every other software marketplace.

23           CHAIRMAN WEISENMILLER: So let's -- I think  
24 we have all the public comment at this point,  
25 again, we encourage staff to work with her on her

1 issues. And now let's turn to the Commissioners.

2 COMMISSIONER MCALLISTER: Yeah, so thanks  
3 for all those specific responses. I guess could  
4 you talk about any progress on the API, the  
5 independent API front, in terms of what third  
6 parties, because we have IES that's developed one  
7 that we approved a couple Business Meetings ago.

8 MS. BROOK: That's right. Our  
9 understanding is that EnergySoft, the company that  
10 sells EnergyPro software, is also working on  
11 integrating the CBECC-Com API, and we're in  
12 beginning discussions with DesignBuilder, who has  
13 got a full featured interface for EnergyPlus, and  
14 they're also interested in integrating the CBECC-  
15 Com API.

16 COMMISSIONER MCALLISTER: Okay, thanks.  
17 And so I want to reiterate the Chair's sort of  
18 call to work with the Design community, I know you  
19 already do that in some way and maybe the  
20 description of the process by which a design firm,  
21 or an architect firm, or a builder can come in and  
22 sort of say, "Okay we have these issues. How do  
23 we resolve them?" Or, is there a sort of working  
24 group? And how do you interact with them to  
25 resolve issues as they come up?

1 MS. BROOK: So right now we have a CBECC-  
2 Com issues reporting process, so that's for  
3 individual issues and each one of these items  
4 could be reported that way, they may have already  
5 been reported that way, I do not know. What we  
6 can do in the future -- well, the other thing,  
7 another area where we really get a lot of  
8 feedback, and reported issues is through the  
9 CBECC-Com training, and also the IES training that  
10 the utilities are funding, so that really brings  
11 back a lot of information to the development team  
12 and helps us identify parties for future  
13 enhancements to the software.

14 COMMISSIONER MCALLISTER: Okay, thanks.

15 MS. BROOK: I mean, we could consider  
16 working groups in the future. We haven't  
17 established one of those yet.

18 COMMISSIONER MCALLISTER: Okay, thanks.  
19 Okay, I will move Item 4.

20 COMMISSIONER DOUGLAS: Second.

21 CHAIRMAN WEISENMILLER: All those in  
22 favor?

23 (Ayes.) Item 4 passes 5-0. So at this  
24 point, again, Items 5 and 6 are off the agenda. I  
25 shifted 1A to just before 7, so let's deal with

1 the City of Los Angeles. Joe Loyer on the Greater  
2 Building Standards.

3 MR. LOYER: Good morning, Commissioners.  
4 I have a short presentation if I can go ahead.  
5 Joe Loyer from California Energy Commission  
6 Building Standards Office. The Title 24, Part 1,  
7 Section 10-106 is the Section of the Code that  
8 enables the Energy Commission to approve Local  
9 Energy Standards. And Local Energy Standards are  
10 only legally enforceable if they are approved by  
11 the Energy Commission. Currently the Energy  
12 Commission has under the 2013 Standards three  
13 local jurisdictions that have approved Local  
14 Energy Codes, and they are the City of Lancaster,  
15 City of Glendale, and the City and County of San  
16 Francisco. We are in discussions with many more  
17 local jurisdictions and today we are here to look  
18 at the City of Los Angeles and ask the Energy  
19 Commission to approve their Local Energy Standard.

20 An application to the Energy Commission  
21 under those Standards has several requirements,  
22 the most significant of which is not,  
23 surprisingly, the CEQA requirement, but is the  
24 cost-effectiveness study. Each local jurisdiction  
25 must show that their Local Energy Standard is

1 cost-effective. And for that purpose, that  
2 particular analysis can be very difficult for the  
3 local jurisdictions to put together. We have  
4 reached out, or maybe the IOUs reached out to us,  
5 it's hard to say who went first, but we partnered  
6 with the IOUs to actually provide those analyses  
7 and support for the local jurisdictions for them.

8           When we take a look at the ordinances and  
9 when we present them to the Energy Commission for  
10 approval, we do several things. We verify that  
11 they've actually complied with all the  
12 requirements. We verify that they've completed  
13 their CEQA requirements and that they have  
14 determined that the ordinance is cost-effective.  
15 But most importantly, what we do is we reach out  
16 to the local jurisdictions before their local  
17 decision making body actually approves the  
18 ordinance, and we help work with them to make sure  
19 that the ordinance is something that the Energy  
20 Commission can support, and we help them put  
21 together that ordinance so that it doesn't cross  
22 any barriers such as Federal Preemptions and the  
23 like.

24           The City of Los Angeles' ordinance has  
25 been part of their larger effort to reduce heat

1 island effect, and in many cases the big question  
2 that's come to us is why would the Energy  
3 Commission be weighing in on a heat island effect.  
4 And in point of fact, we don't. Because they are  
5 implementing a cool roof standard, and that is  
6 part of our Building Standards, we are required to  
7 give our approval before they can enforce a heat  
8 island effect condition.

9           To that end, the application is complete.  
10 The City has completed their CEQA analysis. The  
11 ordinance has been shown to be cost-effective.  
12 The ordinance will cause buildings to consume no  
13 more energy permitted by Title 24, Part 6, and we  
14 recommend the application to be approved, and that  
15 the resolution be signed. We also have with us  
16 today Osama Younan from the City of Los Angeles,  
17 and Javier Mariscal from Southern California  
18 Edison to speak on this, as well.

19           CHAIRMAN WEISENMILLER: Please step up to  
20 the microphone and identify yourself for the Court  
21 Reporter.

22           MR. YOUNAN: Good morning. My name is  
23 Osama Younan and I'm with the City of Los Angeles,  
24 Department of Building and Safety. Thank you very  
25 much for the invite to come here today. This

1 requirement, as Joe mentioned, does help us with  
2 heat island effect, we are trying to mitigate our  
3 heat island effect in the city, and cool roof is  
4 definitely a very good way that could help us do  
5 it. Studies have shown that it would reduce the  
6 overall temperature of the city, which that would  
7 translate into energy cost savings for buildings  
8 themselves, but it also reduces the peak  
9 electricity demand. And it reduces the air  
10 pollution and greenhouse emissions which is all  
11 related, so that could also help greatly in the  
12 overall reduction of the temperature of the city.  
13 So we appreciate your approval and I do want to  
14 extend my appreciation to not only the Commission,  
15 but also the Commission staff, especially Joe  
16 Loyer, he's been really great, I have him on my  
17 speed dial, also Payam Bozorgchami, he's been  
18 extremely helpful, and the BSC under Executive  
19 Director Jim McGowan, they're always great,  
20 they're always there for us whenever we need them,  
21 and they did definitely help us with this issue,  
22 and the HCD, of course, they do the same. Also,  
23 seeing Bob Raymer here today, we cannot do  
24 anything without the partnership we have with our  
25 constituents and the industry reps, so the BIA,

Comment [K1]:

1 they help us greatly, as well as other  
2 organizations such as Climate Resolve, Cool Roof  
3 Rating Council, and the roofing industry and  
4 others. But thanks again and we appreciate your  
5 approval.

6 CHAIRMAN WEISENMILLER: Great. South  
7 Coast.

8 COMMISSIONER MCALLISTER: Or Edison.

9 CHAIRMAN WEISENMILLER: Edison, excuse me.

10 MR. MARISCAL: Good morning,  
11 Commissioners. My name is Javier Mariscal, I'm  
12 with Southern California Edison. I'm also the  
13 Statewide Program Manager for the Codes and  
14 Standards REACH Code subprogram. This is a  
15 program that I co-manage and collaborate, I should  
16 say, with CEC staff, local jurisdictions, and my  
17 IOU colleagues, my Investor-Owned Utility  
18 colleagues at SCE, PG&E, San Diego Gas & Electric,  
19 and the gas company, so lots of coordination that  
20 needs to take place.

21 The Cool Roof REACH Code subprogram is  
22 something that actually was initiated under the  
23 leadership demonstrated by the City of Los Angeles  
24 and LADWP. Our contribution to this was providing  
25 the cost-effectiveness study, and we did it by

1 climate zones, so the City of L.A. encompasses  
2 four climate zones. Since then, we've expanded  
3 these studies to include -- we're almost done with  
4 all 16 climate zones, so any jurisdiction, the  
5 ideal is that any jurisdiction that wants to  
6 follow in the footsteps of the City of L.A. has  
7 now access to a cost-effectiveness study that  
8 would help them in their application to the CEC.  
9 So we're trying to remove that barrier. It would  
10 be available to them free of cost.

11 We are also working with CEC staff, if I  
12 may, on the 2013 Code compliance activities that  
13 are underway, our primary assistance at this  
14 point, the support that we're giving, is training  
15 on the essentials, so the 2013 Code, and we are  
16 targeting local Building Departments, specifically  
17 their Plan Checkers and their Field Inspectors,  
18 we're also targeting Energy Consultants, we have a  
19 long list of people we need to also target, the  
20 architects and all the major stakeholders, but  
21 that's underway now.

22 And the other thing I wanted to mention is  
23 that the Codes and Standards Team is also working  
24 very closely with CEC staff on the proposed 2016  
25 Energy Code Measures, as well as the Title 20

1 Appliance Standards Rulemaking that's underway, so  
2 just a brief outline of the comprehensive  
3 activities that we're undertaking. The key  
4 message here is that it's done in close  
5 collaboration with CEC staff. Thank you.

6 CHAIRMAN WEISENMILLER: Great, thank you.  
7 Any other comments? Commissioners?

8 COMMISSIONER MCALLISTER: All right, so  
9 I've got a slew of items here under Energy  
10 Efficiency, but I actually wanted to pull this off  
11 of consent and have it as an agenda item for a bit  
12 of discussion because I just thought it was  
13 worthwhile to talk a little bit about the beyond  
14 Code work and highlight exactly the messages that  
15 we're hearing about the collaboration that's  
16 needed. And certainly L.A. is showing a lot of  
17 innovation, generally the ecosystem of  
18 collaboration they've got down there is I think  
19 worthy of note. In this case, the fact that we  
20 have an Investor-Owned Utility group collaborating  
21 directly with the City of L.A. and LADWP to remove  
22 barriers to adopt these kinds of ordinances, I  
23 think, is just a stellar example that I wanted to  
24 highlight. I want to thank certainly Edison and  
25 the PUC and the other IOUs for sort of getting

1 involve in that and not sort of getting beyond  
2 acknowledging that there's a public good here that  
3 we all are going to benefit from and not sort of  
4 focusing only on the particular turf of the IOU  
5 territories, which I think is a great example, DWP  
6 also showing a lot of leadership in this area, and  
7 certainly among the POUs, these beyond Code  
8 efforts, you know, Cool Roofs is sort of not  
9 technically a Commission area, but it overlaps  
10 significantly, as Joe said, with energy issues,  
11 big deal for a large urban area like L.A. and they  
12 have to have all the levers at their disposal to  
13 fix problems that they have in their  
14 jurisdictions, and so I think this effort, this  
15 multi-stakeholder effort helping the City get what  
16 it needs done is really worthy of note, and worthy  
17 of emulation in jurisdictions across the state, so  
18 I wanted to just call out and invite folks up here  
19 to talk about what they're doing collaboratively  
20 and some of the results. I really want to thank  
21 Joe and the other CEC staff, Payam, on this topic,  
22 and say thanks for the good work and let's keep it  
23 moving and growing to other jurisdictions. So  
24 thanks a lot for being here, all those  
25 stakeholders.

1           CHAIRMAN WEISENMILLER:  And I was just  
2 going to note in terms of talking about  
3 contributions, obviously Art Rosenthal has in many  
4 ways been the driver in the cool roof approach, so  
5 again I think this is another one of those  
6 tributes to Art's leadership here.  And my  
7 impression on this one is that Jonathan Parfrey  
8 also has been a very supportive advocate of this  
9 in L.A.  It's definitely good to see folks working  
10 across -- I spent three days in L.A. last week and  
11 I could more or less tell whose service territory  
12 it was by which utilities were at the meeting.  So  
13 anyway, it was good to see that there is that  
14 broader community activity, too.

15           COMMISSIONER MCALLISTER:  The cool roof  
16 endeavor has been really interesting to watch  
17 evolve because I was actually involved in a  
18 consulting firm that was sort of the  
19 administrative house of that entity as it was  
20 developing, and it was really interesting.  Those  
21 industry groups, if they take the right approach,  
22 they can develop and adopt standards that have  
23 real teeth.  It doesn't always happen that way,  
24 but certainly having industry see what's in their  
25 collective self-interest and develop those kinds

1 of Standards and testing procedures and be  
2 rigorous about it is great. And that's a great  
3 one that now serves us in a public policy context.  
4 So, you know, the NFRC for windows is another one.

5 COMMISSIONER HOCHSCHILD: Yeah, I just  
6 wanted to chime in, as well. I absolutely agree  
7 with the Chair's comment on the legacy of  
8 Commissioner Rosenfeld. I forget the statistic,  
9 but it's some significant number of acres per  
10 month of commercial rooftop that are being  
11 transitioned to white rooftop, we should get that  
12 stat.

13 MR. LOYER: That particular statistic, I  
14 don't have --

15 COMMISSIONER HOCHSCHILD: It's one of the  
16 things he always had in his head.

17 MR. LOYER: We did look at population, it  
18 might be worth saying right off the top of my  
19 head, last Code cycle, 2008, we had about 15  
20 percent of the population of California had a  
21 local energy standard that they were needing to  
22 comply with. When we just added the three that we  
23 have this time around for 2013, adding in the City  
24 of Los Angeles, just the City, we've reached that  
25 same 15 percent mark. That's how many people are

1 going to be affected by this particular Standard.

2           COMMISSIONER HOCHSCHILD: Well, very  
3 exciting. And I guess the point I wanted to make  
4 is that, much in the same way that the State  
5 Standards and policies and programs we get in  
6 place here for California through the Energy  
7 Commission, make their way up to Federal  
8 Standards, I think we are very influenced by past  
9 work at the local level and that makes its way up  
10 to the State level. And so we really commend you  
11 and thank you and congratulate you for doing this.  
12 And I guess, you know, one question I had maybe  
13 for Commissioner McAllister, staff, is, what is  
14 the best forum for cities and local governments  
15 within the state to communicate and understand  
16 what each other are doing when there's a local  
17 leadership like we saw with Lancaster today, with  
18 Los Angeles? How do those ideas best propagate?

19           MR. LOYER: We work basically through the  
20 outreach approach talking to the ICC groups, the  
21 International Code Compliance groups, and those  
22 are primarily Chief Building Officials, but we've  
23 also reached out to decision makers of the local  
24 cities and counties when we can get them into the  
25 same functions, or get into the same functions

1 with them, I should say. When there has been  
2 green building forums or conferences, we try to  
3 get there and talk to local jurisdictions in that  
4 particular view. As far as getting involved into  
5 a concerted central location, it really so far  
6 hasn't really worked that way, it has been a, gee,  
7 this particular city did this, and I want to talk  
8 to that CBO or those Chairs, and find out how they  
9 did it, and then they eventually get in  
10 communication with the Energy Commission, or with  
11 the IOUs, and we start working with them  
12 immediately.

13 COMMISSIONER HOCHSCHILD: Okay, thank you.

14 COMMISSIONER MCALLISTER: I wanted to  
15 just, there are a number of forums, a lot of it,  
16 as Joe says, is kind of organic, but the COGs  
17 throughout the state, certainly their cities and  
18 local jurisdictions get together regularly, see  
19 what each other -- one sees what the others do and  
20 sort of figures stuff out, and obviously it's a  
21 lot of contextual stuff, but small groups of  
22 cities, you know, North Coast, San Diego is one  
23 example where you've got a bunch of cities that  
24 kind of key off of each other. And then we have  
25 the Local Government Commission, which is a

1 statewide entity where most of the local  
2 jurisdictions throughout those states are members,  
3 and they sponsor a couple of groups, one is the  
4 Local Government Sustainable Energy Coalition,  
5 which has a limited number of members that tend to  
6 be relatively progressive, and the other is the  
7 Statewide Energy Efficiency Collaborative that the  
8 IOUs fund, that gets many many jurisdictions  
9 across the state together on a regular basis. And  
10 so you get a lot of cross-pollination, and those  
11 get together, and they help promote a lot of  
12 what's doing. I'm sure L.A. in those forums is  
13 saying, hey, we've got this new ordinance that has  
14 cool roofs in it and you ought to do it, right?  
15 And then another one I know staff works a lot with  
16 CALBO, the building officials, and they carry a  
17 lot of this information around in their circles,  
18 as well. So the upshot is that one city providing  
19 leadership and putting it altogether and making it  
20 happen, it just provides a huge demonstrative  
21 value and allows a lot of these things to really  
22 go primetime. And I think this is a clear example  
23 of that, and there are many others, but I think  
24 this is a really topical one. It certainly, I'll  
25 chime on the legacy of Art, I mean, he and was it

1 Hashem Akbari back in the day in LVL who really  
2 did a lot of the fundamental science work on the  
3 heat islands and the potential for different  
4 mitigation measures like cool roofs, the principal  
5 ones. So again, here in California a lot of the  
6 foundational work being done to develop this  
7 option and to push this technology and help  
8 industry get going on it, and then ride it all  
9 through to a day like today. So really good  
10 stuff. So thanks.

11 COMMISSIONER SCOTT: I just wanted to add  
12 also thank you to you, Commissioner McAllister,  
13 for pulling this item forward for us to talk  
14 about, and to Joe for the terrific presentation.  
15 I think, you know, we get the one or two lines on  
16 the agenda and then we get the background  
17 paperwork, but it's always really interesting to  
18 hear, I think, directly from the folks who work on  
19 this on a day to day basis, and there's a lot of  
20 really good work and really good information that  
21 goes behind each one of these agenda items, and  
22 it's nice to take some time to pause and think  
23 that through. So thanks for pulling that forward.

24 COMMISSIONER MCALLISTER: I'll move Item  
25 1A.

1 COMMISSIONER HOCHSCHILD: Second.

2 CHAIRMAN WEISENMILLER: Okay, all those in  
3 favor?

4 (Ayes.) Item 1A passes 5-0.

5 Let's go on now to Item 7, the City of Los  
6 Angeles.

7 MR. LOYER: One more thing, Chair, I'm  
8 sorry. We do have a quick presentation.

9 CHAIRMAN WEISENMILLER: Okay, great.

10 MR. LOYER: This is a frame ready version  
11 of the resolution signed by all of the  
12 Commissioners, approving of the City of Los  
13 Angeles Local Ordinance for Cool Roof. And this  
14 just says, "Congratulations at the end of a long  
15 road."

16 MR. YOUNAN: All right, well thank you  
17 very much, Commissioners. [Applause]

18 CHAIRMAN WEISENMILLER: Great, thanks.  
19 Please go forward now on Item 7.

20 MR. CHAUDHRY: Good morning, Honorable  
21 Chairman and Commissioners. I'm Shahid Chaudhry  
22 with the Local Assistance and Financing Office of  
23 the Energy Efficiency Division. I'm here to  
24 request your approval for a \$3 million ECAA loan  
25 at one percent to the City of Los Angeles to

1 retrofit 3,336 energy intensive street lights with  
2 LEDs. The total cost of the project is estimated  
3 at \$3,002,300. On completion, the project will  
4 save the City approximately 2,238 megawatt hours  
5 and close to \$280,000 annually.

6 In addition, the project will reduce about  
7 576 tons of CO<sub>2</sub> equivalent greenhouse gas emissions  
8 every year.

9 Based on the loan amount, the simple  
10 payback is approximately 10.6 years. The request  
11 fulfills City requirements and meets the ECAA loan  
12 guidelines. Staff therefore recommends and  
13 requests your approval of this loan. I am  
14 available to answer any question you may have.

15 CHAIRMAN WEISENMILLER: Okay, thank you.  
16 Commissioners?

17 COMMISSIONER HOCHSCHILD: I had one  
18 question. As you know, I'm a huge supporter of  
19 this program. And in fact my home town of  
20 Berkeley just has begun doing these retrofits.  
21 One thing I've heard anecdotally is that there had  
22 been some complaints about the light is so strong  
23 from the new LEDs that it's actually -- it's been  
24 an issue and some complaints that it's too much.  
25 Is that something we're seeing across the state?

1 Have you heard feedback from municipalities that  
2 have installed these and then had to take them  
3 down?

4 MR. CHAUDHRY: Well, Commissioner, there  
5 are some studies which are focusing on this  
6 particular aspect, but there are no conclusive  
7 evidence at this stage that they may have any  
8 negative impacts. So I'm not aware of anything  
9 other than that.

10 COMMISSIONER HOCHSCHILD: Uh-huh. Okay.

11 MR. OGLESBY: Commissioner, I can confirm  
12 that there's been attention in some communities  
13 and some communities have different choices of  
14 lighting to get some input from the public.

15 COMMISSIONER HOCHSCHILD: The reason I --  
16 this got revisited, the Philips factory, the LED  
17 factory in San Jose which is the largest LED  
18 manufacturer in California, and there are  
19 technologies on the market now that will allow you  
20 to adjust the light level, like a Smart LED. And  
21 I don't know to what extent we're installing -- my  
22 sense is that they're not flexible right now and  
23 it's just on or it's off. I don't know if --

24 CHAIRMAN WEISENMILLER: Well, historically  
25 we've always connected with Davis Lighting Center

1 on these types of issues, and so again, certainly  
2 it would be good to encourage Philips to pull them  
3 in, although as you know there's a debate between  
4 Philips on whether to match the natural spectrum  
5 or not. I tend to view that evolution says our  
6 eyes are designed for the natural spectrum, so  
7 there may or may not be some energy consequences,  
8 but certainly human consequences are good.

9 COMMISSIONER HOCHSCHILD: Right.

10 COMMISSIONER MCALLISTER: There have been  
11 some really interesting work, well, the  
12 communities, I know specifically of the one in San  
13 Diego where they actually did a year-long study  
14 where they install a whole bunch of different  
15 technologies and got feedback from all the  
16 stakeholders, and sort of ended up choosing a  
17 group of technologies that they then said, "Okay,  
18 we are going to install these for our street  
19 lights and then I think we then see those  
20 applications from San Diego and other places that  
21 we're paying attention to that role into the ECAA  
22 program for funding street lights. But, I mean,  
23 sort of implicit in your observation there is that  
24 this technology is moving so fast, and it's just,  
25 you know, the idea of tuning -- right now it's a

1 little bit pricey, but you've got to believe that  
2 the ability to tune is going to come down in price  
3 and become somewhat prevalent in the marketplace  
4 over the next few years, which could help resolve  
5 issues like that. I mean, I know in a place like  
6 Berkeley, you have a fairly -- Davis is the same  
7 thing, you know, you have highly educated populace  
8 that sort of expects its city to be responsive, so  
9 when they start complaining the City wants to be  
10 able to deal. And that might be a place where  
11 that's a high value application and the City could  
12 just tune it instead of replacing it.

13           COMMISSIONER HOCHSCHILD: Yeah, and I  
14 guess my point is I think it's been a great  
15 tribute to the efficiency team here with the LED  
16 quality standard for the A-lamps in residential  
17 applications where you really ensure that the same  
18 quality light that you had with incandescent will  
19 continue, and that's worked. And I just want to  
20 think ahead to, you know, prevent any blowback we  
21 might get on street lights. I don't know, again,  
22 to what extent this is a very small issue or if  
23 there's been broader concerns, but I just wanted  
24 to highlight that.

25           CHAIRMAN WEISENMILLER: Great, thanks.

1 And certainly I know the City of Berkeley, one  
2 City Council Member, Gordon Wozniak, and I think  
3 the City Manager in this area visited the lighting  
4 center a few years ago and, again, it's good to  
5 connect them to the public feedback.

6 COMMISSIONER MCALLISTER: I'll move Item  
7 7.

8 COMMISSIONER DOUGLAS: Second.

9 CHAIRMAN WEISENMILLER: All those in  
10 favor?

11 (Ayes.) Item 7 also passes 5-0.

12 Let's go on to Item 8. Hartnell Community  
13 College District. Christopher.

14 MR. OLVERA: Thank you, Chairman. Good  
15 morning, Commissioners. My name is Christopher  
16 Olvera with the Efficiency Division. Before I  
17 begin, there is a minor revision to this item  
18 regarding the therms saved, the estimated therms  
19 saved for this project was increased slightly from  
20 3,671 to 5,781 therms. Considering this revision,  
21 the Hartnell Community College District is  
22 requesting a loan currently at zero percent  
23 interest for \$3 million from the Energy Commission  
24 to retrofit boiler equipment and install solar  
25 photovoltaic panels at the Hartnell College Main

1 Campus. The total project cost is estimated to be  
2 \$7,047,066. The project consists of retrofitting  
3 approximately seven boilers with four high  
4 efficiency units, and installing 1.36 megawatts of  
5 solar photovoltaic panels.

6           Once completed, this project will reduce  
7 annual electricity consumption by an estimated  
8 1,919,095 KW hours and reduce natural gas  
9 consumption by 5,781 therms. This project will  
10 save approximately \$228,531 in utility costs, and  
11 reduce 696 tons of carbon dioxide equivalents of  
12 greenhouse gas emissions annually.

13           Staff has determined that the loan request  
14 is technically justified and meets the  
15 requirements for an Energy Commission loan. With  
16 that, staff requests Commission approval of the  
17 loan award to the Hartnell Community College  
18 District, and I'm happy to answer any questions  
19 that you may have.

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

22           COMMISSIONER MCALLISTER: I'll just say  
23 it's great to see the ECAA-Ed money getting out  
24 there and it's a great deal for schools, zero  
25 percent interest, I'll do my little sales pitch

1 here, but I understand it's relatively popular in  
2 terms of the applications that are coming in. And  
3 you know, I think there's way more need probably  
4 than we have resources, but each new loan is  
5 really great to see going out, particularly with a  
6 multi-faceted project like this where they're  
7 doing boilers, they're doing also some self-  
8 generation, so a good broadly applicable project.  
9 So I'll move Item 8.

10 COMMISSIONER SCOTT: Second.

11 CHAIRMAN WEISENMILLER: All those in  
12 favor?

13 (Ayes.) Item 8 passes unanimously.

14 Let's go on to Item 9, which is New Solar  
15 Homes Partnership Guidebook. And Le-Quyen,  
16 please.

17 MS. NGUYEN: Good morning, Chairman and  
18 Commissioners. My name is Le-Quyen Nguyen, I'm  
19 the Renewable Energy Division's Program Lead for  
20 the New Solar Homes Partnership Program. I have  
21 with me Christa Salo from our Legal Office. We  
22 are seeking your approval of our proposed  
23 revisions to the New Solar Homes Partnership  
24 Guidebook.

25 The New Solar Homes Partnership Program,

1 also known as NSHP, provides financial incentives  
2 to encourage the installation of eligible solar  
3 energy systems on new residential construction, in  
4 specified Investor-Owned Utility territories. The  
5 NSHP Program began in January 2007 with the goal  
6 of installing 360 megawatts of solar by the end of  
7 the program in 2016.

8           Since the program began in 2007, staff has  
9 received many comments from stakeholders to  
10 streamline the program. Staff has considered and,  
11 as appropriate, incorporated the stakeholder  
12 comments and subsequent Guidebook revisions.  
13 Staff is now proposing a number of revisions and  
14 improvements to the NSHP Guidebook. The purpose  
15 of these revisions is to streamline the program,  
16 address stakeholder concerns, and align the NSHP  
17 Guidebook with current market conditions.

18           The proposed revisions include changes to  
19 the reservation and payment claim forms,  
20 requirements, and processes, changes to the NSHP2  
21 Payment Claim Form consistent with the Guidebook  
22 text, changes to the Energy Efficiency  
23 Requirements and Processes, an additional  
24 incentive for west facing solar energy systems, a  
25 change in the basis for comparing the issue date

1 of a Certificate of Occupancy and Solar Energy  
2 System Permit for eligibility purposes, a process  
3 which allows the Executive Director to approve  
4 time extensions for projects under specified  
5 circumstances, the extension of time for when the  
6 Executive Director must issue a decision on an  
7 appeal from 30 to 60 days, a Guidebook effective  
8 date of September 1, 2014, and other minor  
9 clarifying changes.

10 I respectfully request your approval of  
11 the resolution for the adoption of the proposed  
12 revisions to the New Solar Homes Partnership  
13 Guidebook, and I'm happy to answer any questions.

14 CHAIRMAN WEISENMILLER: Thank you. We  
15 have a number of comments. Let's start with Bob  
16 Raymer.

17 MR. RAYMER: Thank you, Mr. Chairman and  
18 Commissioners. I'm Bob Raymer with the California  
19 Building Industry Association, and in short we're  
20 very supportive of the changes being proposed  
21 today. And of particular interest, providing  
22 enhanced credit to west facing solar to help with  
23 the late afternoon peak load issues, giving the  
24 Executive Director the expanded authority can  
25 certainly help with the efficiency of the program.

1 We support this and, as always, I don't want to  
2 sound like a broken record, but the staff on this  
3 particular project has been great to work with,  
4 we'll be getting the word out to our membership,  
5 as always, about the update, and over the next  
6 three to four months we'll be focusing sort of on  
7 a newer clientele and that is the small and medium  
8 sized builder throughout the Central Valley.  
9 We're doing what we can for those smaller builders  
10 to get them to get familiar with the solar  
11 technology so that, as we approach 2020, they're  
12 not doing that on New Year's Eve 2019. So with  
13 that, once again, thank you and we're very  
14 supportive of this.

15 CHAIRMAN WEISENMILLER: Great, thank you.  
16 Fred Stefany from Lenar, please.

17 MR. STEFANY: Hello, thank you for having  
18 me. My name is Fred Stefany and I am with Lennar,  
19 a leading production home builder. We have over  
20 40 active communities in California where solar is  
21 standard, it is not an option, it will be on every  
22 single roof. And so we have a strong relationship  
23 and appreciate the CEC, Le-Quyen and her team, and  
24 the New Solar Home Partnership, and just want to  
25 say that we support and really are happy with the

1 west facing incentive. We look forward to working  
2 on future changes, and also just happy with the  
3 transition, the transition away from the IOUs to a  
4 single process with the CEC, while it's early,  
5 seems to be going very well, so just wanted to say  
6 thank you to the staff and to the CEC. Thank you.

7 CHAIRMAN WEISENMILLER: Great. Thank you.  
8 George Nesbitt.

9 MR. NESBITT: George Nesbitt, HERS Rater.  
10 Sort of two issues. One was a change that I think  
11 was made back in Guidebook 6 having to do with the  
12 ownership status for profit versus nonprofit. And  
13 this is something I questioned, I wondered what  
14 the intent was, never really I think kind of got  
15 it, kind of argued against it, but I lost. And  
16 it's come up on a project, so the project was  
17 approved, and after the fact they come back and  
18 say you don't qualify because it's a for-profit.  
19 This is an affordable housing project. Every  
20 affordable housing project I've worked on is a  
21 for-profit, limited liability company with  
22 typically the managing partner is a nonprofit and,  
23 you know, part of this has to do with the tax  
24 credits and all this, blah, blah, blah, investors.  
25 We resolved it, but so I'm really wondering why

1 this was done, whether others have been told that  
2 their affordable housing projects don't qualify,  
3 that they're being considered market rate.

4           The other thing is I raised some big red  
5 flags on a significant project, and this was back  
6 in November and I'm still sort of waiting for  
7 resolution information. Often things take a long  
8 time. My first time I applied for a solar rebate  
9 through the Energy Commission six months later,  
10 when I called them, they had no record of my  
11 application, and this was back in 2004 kind of  
12 thing, so sometimes things don't happen very fast.  
13 And I think it's important, especially if people's  
14 rebates are being held up, that things be done in  
15 a timely manner. So I'd like to hear something  
16 about the affordable versus market rate incentive,  
17 the intent on that.

18           CHAIRMAN WEISENMILLER: If the staff  
19 knows, I mean, again you're asking a historical  
20 question and the staff may either know now, or get  
21 back to you later. So --

22           MR. NESBITT: Well, I mean, I think it's  
23 important because --

24           CHAIRMAN WEISENMILLER: Well, I realize  
25 you think it's important, but as I said the staff

1 may or may not be able to comment at this moment,  
2 but we will turn to them.

3 MS. NGUYEN: So the question regarding tax  
4 credit and ownership status, this was a change  
5 that we completed in the previous Guidebook where  
6 we looked at the system owner and we looked at  
7 their tax status, and for affordable housing  
8 projects we said that if the system owner was a  
9 tax exempt entity, meaning they did not pay taxes,  
10 then they would receive the affordable housing  
11 incentive rates. And then for an affordable  
12 housing project that had a system owner that was  
13 not tax exempt, meaning they did pay taxes, then  
14 they would receive the market housing incentive  
15 rates. And we did this because entities that are  
16 not tax exempt, meaning they pay taxes, they can  
17 take advantage of depreciation and the Federal Tax  
18 Credit, whereas system owners who do not pay taxes  
19 cannot take advantage of those additional  
20 incentives.

21 COMMISSIONER MCALLISTER: So that was a  
22 level playing field issue.

23 MS. NGUYEN: Yes.

24 CHAIRMAN WEISENMILLER: Okay, thank you.  
25 Commissioners?

1           COMMISSIONER HOCHSCHILD: Yeah, so let me  
2 just thank Le-Quyen and her team and Pat Saxton,  
3 Emilio Camacho, Gabe Taylor, and others who have  
4 worked on this package. Everything we're doing  
5 with these reforms is intended to make the program  
6 operate in a much more streamlined fashion. We're  
7 behind where we need to be with the program, okay,  
8 that's where we are, and a lot of that is because  
9 the new homes market fell off a cliff after the  
10 CSI was adopted, and we were building 200,000 new  
11 homes a year in 2005, went down to 35,000 in 2009,  
12 it's picking back up, you know, somewhere in the  
13 neighborhood of 100,000 we expect this year. I  
14 really want to thank Bob Raymer for convening this  
15 meeting with all the builders and myself and Le-  
16 Quyen and others participated some weeks ago. The  
17 most significant of the changes we are going to be  
18 voting on today involves the west facing PV, and I  
19 just wanted to clarify that what's actually going  
20 on here when we're talking about a 15 percent  
21 kicker incentive for west facing PV, that results  
22 actually in a 20 percent reduction of total energy  
23 use, but a 56 percent increase of energy  
24 production between the hours of 2:00 and 8:00 in  
25 the afternoon. That's really when the need is

1 greatest and when we can have the best impact in  
2 terms of keeping less efficiency peaker power  
3 plants off, and it really makes solar on new homes  
4 a much more significant part of the solution. So  
5 I feel good about it. I really appreciate staff's  
6 diligence on putting this together, and all the  
7 stakeholders, CBIA, CIA, CALCIA, Lennar, KB Homes,  
8 and all the others who have worked with us on  
9 this, and would ask for your support. I'll make a  
10 motion.

11 COMMISSIONER MCALLISTER: I'll second.

12 CHAIRMAN WEISENMILLER: All those in  
13 favor?

14 (Ayes.) This item passes 5-0. Thank you.

15 MS. NGUYEN: Thank you.

16 CHAIRMAN WEISENMILLER: Okay, let's go to  
17 Item 10, Ivanpah Solar Electric Generation System.  
18 Joseph Douglas, please.

19 MR. DOUGLAS: Here we go. Good morning,  
20 Commissioners. My name is Joseph Douglas. I am  
21 the Compliance Project Manager for the Ivanpah  
22 Solar Electrical Generating System Project. With  
23 me this morning is Kevin Bell, Senior Staff  
24 Counsel, and we have technical staff from Air  
25 Quality. Also present are representatives from

1 Solar Partners, LLC, the owners of Ivanpah Solar.

2 Ivanpah Solar Electrical Generating  
3 System, ISEGS, is a nominal 370 megawatt project  
4 that was certified by the Energy Commission on  
5 September 22, 2010. The facility started  
6 commercial operations on December 31, 2013. The  
7 facility is located in the Mojave Desert near the  
8 Nevada border in San Bernardino County.

9 On March 26, 2014, Solar Partners filed a  
10 petition with the California Energy Commission  
11 requesting to modify the existing ISEGS Conditions  
12 of Certification, AQ12, AQ34, and AQSC10 to allow  
13 an increase in the maximum allowable annual fuel  
14 usage limits for boilers per power block from 328  
15 million to 525 million standard cubic feet.

16 Operating experience since commencement of  
17 a commercial operation in December of 2013 has  
18 shown that more steam is needed from the auxiliary  
19 boilers than originally expected to optimize  
20 operations and maximize solar output as follows:  
21 to ensure that systems operate as designed,  
22 auxiliary boilers need to operate an average of  
23 approximately five hours per day, that's an  
24 increase from one hour originally expected; an  
25 additional fuel is needed during some days to

1 compensate for intermittent cloud cover to  
2 maintain peak power production, or to restart  
3 solar production. Auxiliary boiler operation is  
4 also sometimes needed at the end of the day to  
5 stabilize or support steam turbine operation,  
6 particularly during the peak summer period to  
7 maximize the capture of solar energy as daily sun  
8 insolation declines.

9           Air Quality staff evaluated the expected  
10 air quality impacts from the modified project and  
11 found that the proposed changes would not cause  
12 adverse annual air quality impacts. Furthermore,  
13 since there are no requested changes in hourly or  
14 daily fuel usage, there will be no change to short  
15 term air quality impacts, no equipment other than  
16 auxiliary and nighttime preservation boilers would  
17 be affected by the proposed change.

18           Although the proposed change in the annual  
19 natural gas fuel use limit would result in a small  
20 increase in annual emissions, the revised  
21 Conditions of Certification maintain compliance  
22 with LORS and ensure that potential environmental  
23 impacts remain at a less than significant level.  
24 In addition, the increase in fuel use would not  
25 change the facility's ability to comply with all

1 applicable regulations, including new source  
2 performance standards or best available control  
3 technology requirements.

4 Air quality staff has also analyzed  
5 proposed changes to AQSE-10 and recommends  
6 removing the condition which limits annual natural  
7 gas use to five percent of solar heat input.  
8 Since the original decision, the Energy Commission  
9 adopted a revised renewables program guidance  
10 document that sets the de minimum level for multi-  
11 fuel facilities such as Ivanpah to two to five  
12 percent of total heat input. This is dependent on  
13 conditions and applicable only during the time  
14 when the facility is generating electricity,  
15 therefore AQSC-10 is no longer needed.

16 The Notice of Receipt was mailed to the  
17 Ivanpah Post-Certification Mailing List, Docketed,  
18 and posted to the Energy Commission website on  
19 April 16, 2014. Staff analysis of the Petition  
20 was docketed and posted to the Web on June 27,  
21 2014 and mailed to the Ivanpah Post-Certification  
22 Mailing List on July 11, 2014.

23 Energy Commission staff reviewed the  
24 petition and finds that it complies with the  
25 requirements of Title 20, Section 1769A of the

1 California Code of Regulations, and recommends  
2 approval of the project modifications and  
3 associated revisions to the Air Quality Conditions  
4 of Certification based upon staff's findings and  
5 subject to the Revised Conditions of  
6 Certification.

7 MR. BELL: And speaking of the Revised  
8 Conditions of Certification, staff does have some  
9 minor clarifying changes to the Conditions  
10 themselves. I do have to say that the clarifying  
11 changes don't affect staff's analysis in this  
12 matter at all. I can read those into the record  
13 now if you'd like.

14 CHAIRMAN WEISENMILLER: Please do so.

15 MR. BELL: In AQ-12, the Condition itself  
16 refers to boiler(s) plural, both in line 1 and  
17 again on line 3, and that should be boiler  
18 singular. Also, staff would be asking that the  
19 No. 328 be stricken and replaced with 525. So it  
20 should read "shall not exceed 525 MMS CF of  
21 Natural Gas in any calendar year." Staff is also  
22 requesting that the phrase "and shall not exceed a  
23 total of 525 MMS CF in any calendar year in that  
24 boiler pair be inserted after (Ivanpah 1) again  
25 after (Ivanpah 2) and again after (Ivanpah 3)."

1 So that phrase will show up three times, once  
2 after each parenthetical.

3 As to AQ34, staff would be recommending  
4 the identical changes, except that the boiler in  
5 AQ34 in both lines is singular, as opposed to  
6 plural. Staff would be recommending replacing in  
7 line 2 of AQ34 328 MMS CF with 525 MMS CF, so that  
8 that phrase would read "shall not exceed 525 MMS  
9 CF of Natural Gas in any calendar year." Staff  
10 would also recommend inserting the same phrase as  
11 in AQ12, which is "and shall not exceed a total of  
12 525 MMS CF in any calendar year in that boiler  
13 pair after (Ivanpah 1) (Ivanpah 2) and (Ivanpah  
14 3)," so that phrase will show up after each of  
15 those parentheticals. I believe that written  
16 version of this have already been distributed to  
17 the parties, so you should have that in front of  
18 you, as well. Air Quality staff is present to  
19 answer any questions about these proposed changes  
20 or their analysis.

21 CHAIRMAN WEISENMILLER: Okay, thank you.  
22 Applicant?

23 MR. DOUGLAS: I have one more thing to add  
24 just real quick. We received no comments during  
25 the comment period of the 30-day comment period.

1                   CHAIRMAN WEISENMILLER:   Okay, thank you.

2   Do the owners have any comment?

3                   MR. HARRIS:   Good morning, hi, it's Jeff  
4   Harris.   I'm here on behalf of the project.   To my  
5   right is Tim Sisk and he is the Manager of  
6   Environmental Business for NRG.   In the audience  
7   we have Mitch Samuelian who is the General Manager  
8   for Ivanpah, and Doug Davis, an Environmental  
9   Specialist, as well as Gary Rubinstein from  
10   Sierra, all here to answer any questions.   I can  
11   concur that we've had a chance to look at the  
12   language as read into the record and by Mr. Bell  
13   very effectively, nice to see you, Kevin, and  
14   we're happy with that language.   They really are  
15   just clarifications, further clarifications, and  
16   not substantive changes whatsoever.   So we're  
17   comfortable with that.

18                   Mr. Douglas' presentation was also very  
19   thorough, as always, and I think covered the  
20   issues very well, so with that I think I'll  
21   acknowledge our acceptance of the changes to the  
22   Conditions, make ourselves available to respond to  
23   any comments, or answer any questions you have,  
24   and we'll stop there.

25                   CHAIRMAN WEISENMILLER:   Thank you.

1 Commissioners, any questions or comments?

2           COMMISSIONER DOUGLAS: Well, I just  
3 appreciate the thorough analysis that staff has  
4 done and I've had a chance to review it fairly  
5 closely, but I think it would be helpful just for  
6 the benefit of the Commission to hear a bit from  
7 you about the benefits of the increased natural  
8 gas use in terms of the operation of the facility.

9           MR. SISK: Yeah, sure. Hi, this is Tim  
10 Sisk with NRG, Environmental Manager. So when we  
11 prepared our analysis, when we started to see in  
12 early January starting with commercial operations  
13 that we needed to look again at really four things  
14 that went into our analysis; first was in the  
15 morning during start-up was some increased gas use  
16 in order to allow the facility to start producing  
17 megawatts once insulation raised to a level that  
18 we could then start to use the solar, the sun to  
19 create megawatts, so that was the first part;  
20 second was that, during intermittent cloud cover,  
21 having the ability to use the auxiliary boiler in  
22 order to maintain load or to kind of work through  
23 that intermittent cloud cover and keep the units  
24 on line by the use of the auxiliary boilers with  
25 that natural gas and the steam provided through

1 that. In addition, during days where essentially  
2 the cloud cover is so dense that the insulation  
3 gets to the point where we cannot generate  
4 electricity from the sun, from solar energy,  
5 having the ability to use the auxiliary boiler  
6 after that cloud bank has passed and insulation  
7 raises to a point again that we can start to  
8 produce solar energy again, or renewable energy  
9 again, so that assist with that. And then lastly,  
10 at the end of the day during the summer months,  
11 again, as insulation wanes, being able to maintain  
12 maximum use of maximum generation of the facility  
13 through boosting up to that level, so that's  
14 really what went into our analysis.

15 COMMISSIONER DOUGLAS: All right, thank  
16 you. Any other questions? All right, well,  
17 again, I appreciate the analysis, the  
18 clarifications to the conditions sound very good,  
19 and so with that I will move approval of this  
20 item.

21 COMMISSIONER HOCHSCHILD: Second.

22 CHAIRMAN WEISENMILLER: All those in  
23 favor?

24 (Ayes.) This item passes 5-0. Thank you.

25 Let's go on to Item 11, U.S. Geological

1 Survey. And this is PIER contracts. Susan  
2 Wilhelm, please.

3 MS. WILHELM: Good morning. I'm Susan  
4 Wilhelm from the Energy Generation Research  
5 Office. The 2012 Vulnerability and Adaptation  
6 Study, also known as the Third California Climate  
7 Change Assessment, revealed a general subsidence  
8 of the Delta Levee System through the use of  
9 satellite data. However, while they provide  
10 useful information, this type of satellite data  
11 has several limitations. For example, due to  
12 interference issues, the subsidence rates of above  
13 a certain threshold cannot be measured.

14 Due to these limitations, results from the  
15 2012 Vulnerability and Adaptation Study were not  
16 as detailed as necessary to rigorously assess and  
17 safeguard against risks to the natural gas system.  
18 The purpose of the proposed research is to provide  
19 high quality measurements of subsidence related to  
20 the Delta island levee system, to support  
21 assessment of natural gas sector flood risks, both  
22 current risks and those aggravated due to sea  
23 level rise.

24 The proposed work builds on prior research  
25 supported by the Energy Commission, which not only

1 revealed subsidence-related risk to the natural  
2 gas infrastructure, but also led to development  
3 and pilot testing of the novel low cost ground-  
4 based technique that relies on Light Detection and  
5 Ranging technology, or LIDAR, to produce high  
6 quality measurements of levee subsidence. This  
7 state-of-the-art technology uses a mobile platform  
8 that offers ease of deployment and the ability to  
9 respond quickly to emerging information.

10           In addition, the proposed work will  
11 leverage an ongoing CEC research contract that is  
12 exploring coastal and inland risks of sea level  
13 rise to the natural gas infrastructure. This  
14 ongoing work will offer a basis for estimating  
15 when levee sections will fall below base safety  
16 standards due to the combined effects of  
17 subsidence and sea level rise.

18           The proposed work responds to issues  
19 identified in a 2013 IEPR workshop on climate  
20 change and the energy sector. Proposed work also  
21 responds to the Delta Plan Recommendation, DPR19,  
22 which calls for the Energy Commission and CPUC to  
23 work with the Delta Stewardship Council to  
24 identify actions that should be incorporated into  
25 the Delta Plan by 2017 to address needs of energy

1 development, storage, and distribution.

2           Working with USGS will allow the state to  
3 take advantage of a cost savings of more than  
4 \$150,000 since the proposed research uses USGS's  
5 Mobile Laser Scanning System, designed and built  
6 using CEC funds and not commercially available.  
7 Thus, there are no equipment costs for this  
8 research.

9           At present, California is at risk of  
10 significant natural gas supply disruptions due to  
11 Levee failures. This risk is compounded by sea  
12 level rise, which will affect hydrology in the  
13 Delta. State funded research to identify the most  
14 vulnerable areas is the first step toward  
15 addressing this concern and boosting resilience of  
16 California's energy system.

17           Staff recommends that the Commission  
18 approve Agreement 500-14-001 with the United  
19 States Geological Survey. I'm happy to answer any  
20 questions.

21           CHAIRMAN WEISENMILLER: Thank you. I  
22 would note sort of as a lead on research in  
23 particular climate areas, this is an important  
24 project, I think the staff talks about the  
25 implications for the gas system; probably much

1 more scary is for the water system, you know, and  
2 that's certainly one of the drivers on the  
3 Governor's proposal on the tunnels. So certainly  
4 this year with all the drought, there's a real  
5 question on salinity in the Delta issue. So  
6 anyway, it's a huge area, getting better science  
7 is going to help, and like I said, there are  
8 certainly payoffs well beyond the gas issues which  
9 frankly may not be that significant. So with  
10 that, any other questions or comments?

11 COMMISSIONER MCALLISTER: It seems really  
12 important to me. Thanks, Susan.

13 COMMISSIONER DOUGLAS: Yeah, I'll move  
14 approval of this item.

15 COMMISSIONER MCALLISTER: Second.

16 CHAIRMAN WEISENMILLER: All those in  
17 favor?

18 (Ayes.) This item passes 5-0. Thank you.

19 Let's go on to Item 12. Energy Commission  
20 Application to the U.S. Fish and Wildlife Service.  
21 Scott Flint.

22 COMMISSIONER SCOTT: And on Item 12, for  
23 the revolving door rules with the Federal  
24 Government, because my former position at  
25 Department of Interior and the work I did on

1 DRECP, I'm going to recuse myself from this item.

2 MR. FLINT: Good morning, Commissioners.  
3 My name is Scott Flint. I'm with the California  
4 Energy Commission Siting Transmission and  
5 Environmental Protection Division. I'm the lead  
6 staff person responsible for the development of  
7 the Desert Renewable Energy Conservation Plan. I  
8 have with me Galen Lemei from the Legal Office  
9 this morning. And I have a brief presentation on  
10 Item 12.

11 Item 12 before you this morning requests  
12 approval of a Resolution to direct the Executive  
13 Director to submit an Application to the U.S. Fish  
14 and Wildlife Service for an incidental take permit  
15 under Section 10 of the Federal Endangered Species  
16 Act, to implement the Desert Renewable Energy  
17 Conservation Plan (DRECP).

18 By way of background, the Energy  
19 Commission, the U.S. Bureau of Land Management,  
20 the California Department of Fish and Wildlife,  
21 and the U.S. Fish and Wildlife Service have been  
22 working together since July of 2008 to develop the  
23 Desert Renewable Energy Conservation Plan, or  
24 DRECP, in the desert habitat areas of California.  
25 The DRECP is a landscape scale planning effort

1 with two primary purposes, 1) to provide long term  
2 conservation of species, their habitat, and  
3 ecological systems that support them, and at the  
4 same time to accommodate the development of up to  
5 20,000 megawatts of renewable energy generation,  
6 associated facilities, and transmission.

7           The DRECP is being designed as a multi-  
8 agency framework to accelerate the permitting of  
9 proposed renewable energy projects under the  
10 individual agency's jurisdictions. As such, the  
11 DRECP will serve as the basis for a Natural  
12 Community Conservation Plan and Permit under State  
13 law, and under Federal law the plan will serve as  
14 a BLM Land Use Plan Amendment for BLM federal  
15 lands in the plan area and as a general  
16 conservation plan from which the U.S. Fish and  
17 Wildlife Service may issue Federal Endangered  
18 Species Act Incidental Take Permits for projects  
19 on non-federal lands in the plan area.

20           It is an application from the CEC for this  
21 last element, the Federal Incidental Take Permit  
22 that is the subject of the item before you today.  
23 To eventually implement the DRECP, the Commission  
24 would use the Federal Incidental Take Permit to  
25 grant take coverage for federally listed species

1 for projects approved by the Commission and that  
2 are found consistent with the DRECP. This is an  
3 important Permit streamlining feature because at  
4 present, if CEC approves projects on private  
5 lands, the take federally listed species, each  
6 individual project must seek a federal incidental  
7 take permit through a separate ECP process. In  
8 addition to the Commission approval,  
9 implementation of the DRECP would combine these  
10 approval processes.

11 As to where the agencies are in the  
12 process of developing the DRECP, a draft DRECP and  
13 Joint Environmental Impact Statement and  
14 Environmental Impact Report are being prepared for  
15 public review and will be released by the end of  
16 the summer. The Draft DRECP and EIS/EIR will  
17 serve as the project description, technical and  
18 biological analysis, and the environmental review  
19 documentation to support the incidental take  
20 permit application.

21 It is a matter of procedure for the U.S.  
22 Fish and Wildlife Service to publish the  
23 incidental take permit application, along with the  
24 supporting documents for public review, and in  
25 this case, the supporting documents are the entire

1 DRECP, the EIR/EIS. The proposed resolution is  
2 limited to directing the Executive Directors to  
3 submit the application so that it may be published  
4 in the Draft DRECP and EIR/EIS as a procedural  
5 requirement. The resolution does not involve any  
6 consideration or approval of the DRECP and the  
7 EIS/EIR itself at this time. The Draft is just  
8 about to begin a joint CEQA and NEPA public review  
9 process.

10 The submittal of the Incidental Take  
11 Permit Application is necessary at this time to  
12 move the DRECP to the public review phase. As  
13 such, the staff recommends that the Commission  
14 approve the resolution as drafted. Thank you.

15 COMMISSIONER DOUGLAS: Thank you, Scott.  
16 I don't have any questions at this moment, I have  
17 a comment, and I wanted to see if any of my  
18 colleagues have questions or comments. Obviously  
19 we've been working very hard within the Energy  
20 Commission and with a number of other agencies,  
21 you know, certainly the Bureau of Land Management,  
22 California Department of Fish and Wildlife, and  
23 the U.S. Fish and Wildlife Service, to pull  
24 together the draft of the Desert Renewable Energy  
25 Conservation Plan documents, and be able to

1 publish those documents and enter into the public  
2 review period. And I'm just very pleased that, in  
3 fact, the draft is really just about at the final  
4 stages now and we're looking at a publication date  
5 in September. I'm always careful about which day  
6 in September, and so I'm not going to yet tip my  
7 hand as to which day I think it might be in  
8 September, but it's really almost upon us and, as  
9 Scott noted, this is a procedural step because  
10 this is an application that actually needs to be a  
11 part of that package and will be part of the  
12 entire package subject to the public review  
13 process that we are about to enter into. So I'll  
14 just pause for a moment and see what other  
15 questions or comments there might be.

16           CHAIRMAN WEISENMILLER: My comment was  
17 again to thank you and the staff for their  
18 activities in this area. Obviously it's been a  
19 huge undertaking and it's really great to see it  
20 getting closer to the light at the end of the  
21 tunnel.

22           COMMISSIONER DOUGLAS: Yes, thank you.  
23 It's a really big moment for us and it's certainly  
24 really welcome to me to see this draft go from the  
25 internal challenges of just how do we put this all

1 together and how do we describe it, and what is it  
2 that we are putting out into the public; and to  
3 now be at the verge of entering into the next  
4 phase of this, where we actually really get to,  
5 well, people get to roll up their sleeves, they  
6 get to read the document, they get to work with  
7 it, they get to talk to us about what they think  
8 and how it could be better, and what they like  
9 about it. And so I'm really really looking  
10 forward to that, it's been a long time coming and,  
11 you know, I'll move this item and if there are  
12 other comments certainly we can take them up.

13           COMMISSIONER MCALLISTER: I'll do that  
14 before there's a second. So I wanted to just, I  
15 mean, observing from some distance, but also aware  
16 of many of the issues and having gotten a series  
17 of briefings sort of in my time at the Commission,  
18 but the work on this predates my tenure here for  
19 sure. It's a huge undertaking and I think, as the  
20 various layers unfolded of what was necessary and  
21 additional due diligence, and additional  
22 stakeholders, and just bringing in the right  
23 experts to study all the various issues that came  
24 up, just a tremendous amount of facilitation and  
25 coordination, and just dogged follow-up on all

1 fronts by staff, and certainly by Commissioner  
2 Douglas providing a lot of leadership on this, so  
3 just observing that process I am anxious to see  
4 the result, as well, and sort of see what the  
5 reception is, but my impression is that you've  
6 just covered a lot of the bases here. So really  
7 kind of a great example of how to go about with a  
8 very very extremely complex process and getting to  
9 a result that I think a lot of people will be  
10 happy to see and will reflect that work. So any  
11 other comments?

12 COMMISSIONER HOCHSCHILD: Well said. I  
13 second those comments, and I second Commissioner  
14 Douglas's motion.

15 CHAIRMAN WEISENMILLER: Okay, let's have a  
16 vote on it.

17 (Ayes.) So 4-0, one abstention.

18 So let's go on to Item 13. We need  
19 Commissioner Scott back.

20 COMMISSIONER DOUGLAS: All right and I'll  
21 just pause and take the moment to thank Scott and  
22 Galen and there is a large team of people with  
23 Scott and Galen that I will not go through at this  
24 moment because, of course, this is a piece of a  
25 large draft and there will be that opportunity to

1 thank all of them later.

2 CHAIRMAN WEISENMILLER: Yeah, there is  
3 certainly a village here. Okay, so let's go on to  
4 Item 13. Electric Vehicle Charging Infrastructure  
5 Grants. Brian Fauble, please.

6 MR. FAUBLE: Good morning, Commissioners.  
7 My name is Brian Fauble with the Fuels and  
8 Transportation Division, Emerging Fuels and  
9 Technologies Office.

10 Today staff is seeking approval of two  
11 proposed grant awards totaling \$999,937 for  
12 Electric Vehicle Charging Infrastructure projects  
13 that are funded through the Alternative and  
14 Renewable Fuel and Vehicle Technology Program,  
15 which I will refer to as ARFVTP.

16 Extended to 2024 by Assembly Bill 8, the  
17 ARFVTP provides approximately \$100 million  
18 annually to fund the portfolio of Advanced Fuels  
19 and Vehicle Technology Projects.

20 I wanted to first begin with a short  
21 Powerpoint presentation on the progress the  
22 Commission's ARFVTP has made on funding the  
23 installation of Electric Vehicle Charging  
24 Stations, or EVCS, in California.

25 ARFVTP's most recent grant solicitation

1 for Electric Vehicle Charging Stations was Public  
2 Opportunity Notice (PON) 13-606, which was  
3 released in December of 2013. The solicitation  
4 supports the Governor's Zero Emissions Action Plan  
5 of achieving 1.5 million Zero Emission Vehicles on  
6 California roadways by 2025 by seeking proposals  
7 to install EVCS along California highway corridors  
8 at destination locations, at workplaces, and at  
9 multi-family unit dwellings.

10 On April 4, 2014, a Notice of Proposed  
11 Awards (NOPA) was released proposing 35 funding  
12 awards for a total of \$11,447,644. A second NOPA  
13 was released on July 3, 2014, proposing an  
14 additional six funding awards for a total of  
15 \$2,222,284.

16 This slide shows the total Energy  
17 Commission Plug-In Electric Vehicle (PEV) related  
18 ARFVTP investments. To date, the Energy  
19 Commission has funded \$40.5 million for EVCS for a  
20 total of 8,723 chargers. From that total, 3,900  
21 are commercial sites, 3,956a are residential, 760  
22 are workplace, and 107 are Fast Chargers. The  
23 Energy Commission has also provided \$75 million  
24 towards Zero Emission Vehicle Truck Deployment,  
25 Demonstration, and Manufacturing, provided \$49

1 million for the Air Resources Board's Clean  
2 Vehicle Rebate Project, \$4 million for the Air  
3 Resources Board's Hybrid and Zero Emission Truck  
4 and Bus Voucher Incentive Project, as well as \$2  
5 million for 10 PEV Regional Readiness Plan Grants.

6           This slide shows a map of California's  
7 fast charging network. The red and light blue  
8 stars are current publicly available fast charger  
9 stations, the purple triangles are Tesla Super  
10 Charger Stations, and the yellow stars are planned  
11 Fast Charger Stations from existing and proposed  
12 grant agreements funded by the Energy Commission.

13           I wanted to emphasize that we continue to  
14 grow California's Fast Charger Network in the PEV  
15 dense regions, which are Southern California and  
16 the Bay Area, and now through funding from the  
17 ARFVTP are connecting these regions with corridor  
18 charging, as well. Looking at just the yellow  
19 stars on the map that show the CEC planned Fast  
20 Chargers, we see many new Fast Chargers along  
21 major highways around L.A., in between San Diego  
22 and L.A., in the Central Valley along Interstate  
23 5, and Highway 99, that help connect Central and  
24 Southern California.

25           And if we can go back to the agenda? The

1 projects I am presenting for your consideration  
2 provide funding to two organizations to install 10  
3 Direct Current Fast Chargers, three Level 2  
4 Chargers, and renovate 10 Level 2 Chargers in  
5 Sonoma County and Southern California Region.  
6 These projects install EVCS in locations that are  
7 consistent with the needs that have been already  
8 identified in the applicable PEV readiness plans.

9           Item 13A is a proposed agreement ARV-14-  
10 019 with Corridor Power, Inc. for a \$499,937 grant  
11 to deploy a fast charging plaza that will include  
12 10 Electric Vehicle Direct Current Fast Chargers  
13 in Encinitas, which is along the I-5 Corridor  
14 between Oceanside and San Diego. The Fast  
15 Charging Plaza will have much in common with the  
16 design of a modern day gas station, but instead of  
17 a convenience store, the plaza will have a type of  
18 café that customers can wait in while their  
19 vehicles are charging. The Agreement also  
20 includes \$787,272 in match funding.

21           Item 13B is Proposed Agreement ARV-14-020  
22 with the County of Sonoma for a \$500,000 grant to  
23 renovate 10 existing Level 2 EVCS, as well as  
24 deploy three new Level 2 stations in Sonoma  
25 County. The County of Sonoma pioneered EVCS

1 installations and now require renovating a number  
2 of those chargers that are beginning to be  
3 incompatible with new technology in today's PEVs.  
4 The agreement includes \$378,315 in match funding.

5           In summary, staff is requesting the  
6 Commissioners' approval for both proposed Grant  
7 Agreements listed as Items 13A and 13B. Thank you  
8 for your time and consideration of these projects,  
9 and I'm available to answer any questions.

10           CHAIRMAN WEISENMILLER: Thank you.  
11 Commissioners, any questions or comments?

12           COMMISSIONER SCOTT: I would just comment  
13 on the corridor power, it's kind of a neat model  
14 in terms of having a fast charging plaza, it's the  
15 first one like that that we have ever funded  
16 before and it has the potential to be a model up  
17 and down the state, this one will be very close to  
18 I-5 and so it sort of has your rest stop --  
19 potentially has your rest stop kind of feel to it,  
20 so I'm excited about that one. And also I would  
21 just thank the County of Sonoma, they've been just  
22 a leader on this and out front and that's why some  
23 of the chargers that we're going to help them  
24 upgrade, so they've put them in on their own dime  
25 several years ago, and now we're going to help

1 them upgrade so that it keeps up with modern  
2 technology. And I thank Brian for his very  
3 thorough presentation, I don't have anything to  
4 add to that.

5 CHAIRMAN WEISENMILLER: Great, thank you.  
6 Any other?

7 COMMISSIONER SCOTT: I will move Item 13.

8 COMMISSIONER DOUGLAS: Second.

9 CHAIRMAN WEISENMILLER: Okay, all those in  
10 favor?

11 (Ayes.) This also passes 5-0. Thank you.

12 MR. FAUBLE: Thank you.

13 CHAIRMAN WEISENMILLER: Let's go on to  
14 Item 14, Foresight Renewable Solutions, LLC.  
15 Michael Kane, please.

16 MR. KANE: Good morning, Commissioners. I  
17 am Mike Kane with the Energy Generation Research  
18 Office. This agreement with Foresight Renewable  
19 Solutions was originally awarded through a  
20 competitive solicitation having the goal of  
21 demonstrating the cost-efficient integration of  
22 high penetrations of renewable energy within a  
23 given community based on the locally available  
24 renewable energy potential and to increase this  
25 energy security for that community.

1           For this project, the community is a  
2 facility located at Naval Base Ventura County that  
3 aims to integrate over 150 kilowatts of solar  
4 photovoltaic into a local Microgrid that will  
5 incorporate energy storage along with existing  
6 backup generation to support mission critical, as  
7 well as routine operational loads, and to manage  
8 intermittency and grid issues.

9           Foresight's agreement with the Energy  
10 Commission covers installation of approximately 50  
11 kilowatts of the added PV capacity and the  
12 deployment of an innovative above-ground  
13 Compressed Air Energy Storage system, also known  
14 as CAES. In May, Foresight discovered that the  
15 CAES supplier would be unable to deliver the CAES  
16 unit during the project term. Furthermore, they  
17 were not confident that supplier could deliver  
18 given a reasonably extended project term. After  
19 conferring with the Energy Commission and Navy  
20 staff, Foresight proposed replacing the CAES with  
21 a Vanadium-Redox Flow Battery to be supplied by  
22 Imergy Power Systems of Fremont, California.

23           In addition, a nine-month time extension  
24 is being requested to account for lead time needed  
25 to procure the Flow Battery. No additional funds

1 are being requested, though the budget  
2 reallocations and reconfiguration of some  
3 subcontractors is required to reflect the revised  
4 scope. Flow Battery was chosen because it shares  
5 an important property with CAES. Power and Energy  
6 storage capacities can be specified and procured  
7 independently. This affords the option of adding  
8 additional low cost storage capacity as needed.

9           Staff concurs that the substitution of  
10 CAES with a Flow Battery is the best option for  
11 this project moving forward because it is both  
12 consistent with the original solicitation goals,  
13 and it also conforms to the stated goals and  
14 objectives of the original agreement.

15           Staff is therefore requesting your  
16 approval of the scope and term changes as being  
17 proposed by this Amendment. Thank you. I would  
18 be happy to answer any questions you have.

19           CHAIRMAN WEISENMILLER: Thank you. As the  
20 Lead Commissioner in this area, I would say it's  
21 pretty simple, all we're doing is substituting one  
22 storage technology for another, and it probably in  
23 terms of the science doesn't really vary and the  
24 difficulty was that the original contract actually  
25 went down to specify a specific type of storage

1 technology instead of just dealing with the  
2 fundamentals of trying to get storage into this.  
3 So I'm certainly encouraging staff to be dealing  
4 more with the fundamental business issues unless  
5 flowing in the extraneous detail which, when it  
6 changes, brings it back to the full Commission and  
7 certainly chews up a lot of staff time in the  
8 process. So certainly, as I said, this is sort of  
9 a no brainer and I'm sort of sorry that we're  
10 inflicting this on people, but that's sort of the  
11 reality that we're facing.

12 COMMISSIONER DOUGLAS: On that note, I  
13 move approval of this item.

14 COMMISSIONER SCOTT: Second.

15 CHAIRMAN WEISENMILLER: All those in  
16 favor?

17 (Ayes.) This passes 5-0 again. Thank  
18 you.

19 So let's go on to Item 15. Trustees of  
20 the California State University. Raquel, please.  
21 Actually, before you start why don't you do the  
22 announcement, both you and Commissioner Douglas?

23 COMMISSIONER MCALLISTER: Great. For  
24 Commissioner Douglas and myself, actually, both of  
25 us have a financial interest in U.C. Davis, but

1 not anything related to any of the items here,  
2 particularly items d and e, or contracts d and e  
3 under Item 15 here are for entities at U.C. Davis.  
4 My wife is a professor at U.C. Davis, King Hall,  
5 School of Law, and Commissioner Douglas teaches a  
6 course there, as well. So both of us would like  
7 to disclose that relationship, but not recuse.

8 CHAIRMAN WEISENMILLER: Thanks. Go ahead.

9 MS. KRAVITZ: Good morning, Commissioners.  
10 My name is Raquel Kravitz for Item 15 on the  
11 Agenda. Staff recommends the possible approval of  
12 six projects from the Public Interest Energy  
13 Research Energy Innovations Small Grant Program,  
14 Solicitation 14-01, it is the Natural Gas portion,  
15 totaling \$854,016. These grant applications were  
16 competitively selected and capped at \$150,000 and  
17 termed up to 18 months.

18 So here is a little background on this  
19 program. So each solicitation goes through  
20 multiple levels of review, it goes through an  
21 administrative review, and after that it goes  
22 through a technical review, and after technical  
23 review it goes through a program technical review  
24 where the program technical review then recommends  
25 to the Energy Commission for funding.

1           From the six proposals that are being  
2 recommended here, here is the breakdown in respect  
3 to the PIER R&D research areas: there are two in  
4 Natural Gas Infrastructure, there are two in  
5 Renewable Energy Technologies, and two in Building  
6 End Use Energy Efficiency. I will be more than  
7 happy to answer any questions that you have under  
8 these six projects or the program. Thank you.

9           CHAIRMAN WEISENMILLER: Certainly thank  
10 you for that. I was, again, as Lead Commissioner  
11 in this area, I would say it's a very good  
12 program, certainly has done a lot of interesting  
13 things over the years. This is part of the PIER  
14 Natural Gas Program, and again it's some small  
15 amounts of money for seed funding, which certainly  
16 obviously sometimes it doesn't work out, but it's  
17 surprising how often it makes a difference.

18           COMMISSIONER MCALLISTER: Well, when  
19 people have to apply for relatively modest amounts  
20 of money, they may have to put all the pieces of  
21 the puzzle together and they want to do something,  
22 they have big ideas but really have to be precise  
23 and be strategic in what they actually ask for  
24 from this program, so I think that's a lot of the  
25 reason why it pays, you know, in a number of cases

1 has paid big dividends, because they take it and  
2 then they apply for different grants, and they  
3 bring in seed funding and they go out to the  
4 marketplace and build the business.

5 So with that, I will move Item 15.

6 COMMISSIONER SCOTT: Second.

7 CHAIRMAN WEISENMILLER: All those in  
8 favor?

9 (Ayes.) This also passes 5-0.

10 Let's go on to the Minutes. I will make  
11 the announcement, we have some public members who  
12 have comments, so I thought what we should do is  
13 just keep going through things instead of breaking  
14 for lunch. I think we're pretty close. So let's  
15 go to Item 16, Minutes, possible approval of the  
16 July 22nd Business Meeting.

17 COMMISSIONER MCALLISTER: I'll move the  
18 July 22nd Minutes.

19 COMMISSIONER SCOTT: Second.

20 CHAIRMAN WEISENMILLER: All those in  
21 favor?

22 (Ayes.) The Minutes are approved.

23 Let's go on to Item 17. Lead Commissioner  
24 and Presiding Member Reports. Commissioner Scott.

25 COMMISSIONER SCOTT: Okay. So I had a

1 couple things I wanted to highlight for you about  
2 things I've been up to recently. Since we last  
3 met, I went to the Pacific Coast Collaborative  
4 Meeting, this group is working together on quite a  
5 few things, but the meeting was focused on  
6 transportation and how to get fleet owners more  
7 interested in different types of Electric  
8 Vehicles, and matching sort of the duty cycles of  
9 those vehicles with what the task of the vehicles  
10 would be so that you're making sure that you get a  
11 good set of vehicles for your fleet and that  
12 you're not trying to put something in a fleet that  
13 might not be able to handle the duty cycle. They  
14 also talked about the total cost of ownership and  
15 some really neat models that they have to help  
16 fleet owners calculate that. So I thought that  
17 was really interesting.

18           The other piece that we talked about there  
19 that was really interesting was the West Coast  
20 Green Electric Highway. And right now we've got  
21 all of Washington State has filled in where their  
22 Fast Chargers are, and Oregon has filled in where  
23 their Fast Chargers are, and Oregon was very  
24 excited at the meeting, and it was followed up by  
25 an Oregon Electric Vehicle Conference because they

1 have put in place their 43rd Fast Charger and have  
2 now basically electrified the entire I-5 which is  
3 where about 90 percent of the State lives within  
4 driving distance of that, so they've got their  
5 network.

6           As you saw on the map that Brian presented  
7 to you, we've got quite a few Fast Chargers along  
8 our I-5 and our I-99, we do need to connect up the  
9 portion between kind of about Redding and the  
10 Oregon Border, but California is also making  
11 progress, so we're going to try to get that data  
12 on those maps so that we can kind of see the whole  
13 picture from Canada down to San Diego. So that  
14 was just great to have a chance to go there and  
15 represent the state and let folks know what's  
16 going on, and also to hear what other states who  
17 don't have an AB 8 program, who don't have some of  
18 the funding programs, that really help us to  
19 accelerate the infrastructure, the ideas that they  
20 have to try to accelerate infrastructure and bring  
21 people in. So I thought that was really a very  
22 interesting day.

23           Keeping on the Zero Emission Vehicle  
24 trend, I went with Tyson Eckerle, who is working  
25 over at the office of GoBiz on helping with the

1 permitting for the hydrogen fueling stations, and  
2 this was down in San Jose and it was called  
3 Hydrogen Fuel Cell Electric Vehicles in  
4 California: A Local Official Briefing. What was  
5 really great about this was it brought together  
6 over 100 Northern California folks, whether they  
7 are planners or the Fire Marshals, other safety  
8 officials, to really hear and learn and understand  
9 what's going on with hydrogen fueling and Fuel  
10 Cell Vehicles. They had a chance to hear from the  
11 auto manufacturers that are bringing those from  
12 the folks like Aire Liquide and others who are  
13 building the stations to ask questions and they  
14 also heard from Kish at GoBiz, from me at the  
15 Energy Commission, and from Floyd Vegara at the  
16 Air Resources Board, so they could kind of see  
17 that the state is committed to this, as well, and  
18 so that was I thought a really good forum and I  
19 was delighted to be able to participate in that.

20 I went down south last week and I did a  
21 tour of Hydrogen Fuel Cells in Southern  
22 California. I think I might have seen actually  
23 every Hydrogen Fuel Cell that is in Southern  
24 California. It was quite a visit. But I just  
25 wanted to highlight a little bit of that for you

1 all. It was terrific, I started out over at U.C.  
2 Irvine and we went to visit a Fuel Cell that is  
3 helping to power one of the Kaiser Permanente  
4 Hospitals down there. At U.C. Irvine, we looked  
5 at their Hydrogen Fueling Station, they've also  
6 got a great Microgrid and a really interesting  
7 Smart Grid Demonstration Project that I think  
8 would be of interest if you all are down there and  
9 have time to take a look, so it was really nice of  
10 them to host me, take me around there.

11 I went out to the Orange County Sanitation  
12 District, Fountain Valley facility which is a Tri-  
13 Gen facility, and so what they were doing is using  
14 the waste energy to do heat and electricity and  
15 also to produce hydrogen fuel. And so it was kind  
16 of neat to see that's sort of the first Tri-Gen  
17 facility really in the world, and so it was kind  
18 of neat to see what they were doing there and have  
19 an opportunity to talk to folks in Orange County  
20 Sanitation District.

21 Then I went over to Torrance and I looked  
22 at Toyota where they've got a Ballard power  
23 system, one megawatt fuel cell. This one was  
24 different from the one we had seen at Kaiser  
25 Permanente, so at Kaiser the fuel cell runs at a

1 really hot temperature and it's basically base  
2 load power; the one that Toyota has runs at a  
3 cooler temperature and that means that they can  
4 load follow with it. And so it was really neat to  
5 kind of see the two different types of fuel cells  
6 and how they might be able to help support the  
7 grid. I also got to see the brand new Toyota fuel  
8 cell car, and that was really great, got to drive  
9 it around a little bit, it didn't have the license  
10 plate on it yet, and so I had to stay on the  
11 Toyota campus, but it was great to see that car,  
12 they've got five or six of them here in  
13 California, and they're coming soon, so that was  
14 terrific. Two more things on that list. Then I  
15 went over to Compton and we went to the Kroger  
16 Distribution Center where they've got a bunch of  
17 hydrogen fuel cell forklifts. And what was great  
18 about those was a chance to see the guys zipping  
19 all over the warehouse. The warehouse is  
20 refrigerated, so it's cold inside there, but they  
21 also go outside where it was, you know, 95 degrees  
22 or something, and so you could just see that the  
23 fuel cells function well both in cold and in heat.  
24 They really like them right now because you can  
25 fuel it up in about four minutes, and I got to

1 test that myself and fuel up a forklift, and  
2 before that when they have the battery operated  
3 ones, what they'd have to do was swap out the  
4 batteries and that took probably about 45 minutes  
5 to an hour to do, but these guys get paid by how  
6 much stuff they move around, so the fact that they  
7 only have to wait the three or four minutes while  
8 they fuel up, and then they can go back to zipping  
9 around was something that they were really happy  
10 with, and that was great to get to see.

11           And then I went and visited the Total  
12 Transportation Services and they are drayage for  
13 the ports, and what was really great about that is  
14 they have two different types of fuel cell drayage  
15 trucks, so these are Class A drayage trucks, and  
16 it's the hydrogen together with the battery, so  
17 you plug it in and then you use the battery until  
18 the battery starts to run down, and then the  
19 hydrogen fuel cell can provide the electricity to  
20 keep it going, and so they had I think about five  
21 of those prototype trucks in their fleet that  
22 they're testing, you know, and if those work out  
23 those have the potential to then revolutionize how  
24 we can move drayage. So that was a very full and  
25 terrific day where I kind of got to see pretty

1 much -- maybe not every use -- but a lot of the  
2 different types of uses of fuel cells, how they're  
3 being used, where they're being used, fueling  
4 stations, everything, it was really neat.

5           And then we had two IEPR workshops and  
6 maybe as we get further down the line here, we can  
7 talk about those a little bit more, but  
8 Commissioner Douglas and I, we were joined by  
9 Chair Weisenmiller, Commissioner Picker,  
10 Commissioner Peterman joined us from the Public  
11 Utilities Commission, and Jim Kenna from the  
12 Bureau of Land Management, also Liz Klein from the  
13 Department of the Interior, and we focused on  
14 integrating environmental information in the  
15 renewable energy planning process, and we had a  
16 whole bunch of people who came and really talked  
17 to us about what they were thinking, what the  
18 latest and greatest is there, we got updates from  
19 the different agencies, the ISO, the PUC, and  
20 others, and maybe I'll let Commissioner Douglas  
21 speak about that a little bit more if there's  
22 anything she'd like to highlight.

23           And then Chair Weisenmiller and I were  
24 down South last week and we did kind of the  
25 Southern California Electricity Reliability

1 follow-up workshop from last year and that was  
2 another really good one. We had Commissioners  
3 Picker and Florio from the Public Utilities  
4 Commission and we had Steve Berberich from the  
5 ISO, Mary Nichols from Air Resources Board,  
6 Jonathan Bishop from the State Water Board, and  
7 Barry Wallerstein from South Coast. And we had a  
8 chance to get a status update from the agencies  
9 and also from the IOUs about what they've been  
10 doing on Southern California reliability since we  
11 talked to them the last time. So it's been pretty  
12 busy, all really good stuff, and I don't know if  
13 you all have things you want to add on the  
14 workshops, but that's what I've been up to.

15 CHAIRMAN WEISENMILLER: Thank you.  
16 Commissioner McAllister.

17 COMMISSIONER MCALLISTER: You're burning  
18 up the airways and the freeways, I guess. I'm  
19 certainly more close to home. But just a couple  
20 things I wanted to highlight. So you know,  
21 hopefully if you all approve the NASEO membership,  
22 you know, I'll keep doing this, but I was at a  
23 NASEO meeting at the annual Board Meeting out in  
24 D.C. in this past month since the last Business  
25 Meeting and, again, it is valuable on many many

1 levels to interact with the other states and  
2 regions and actually this interesting dynamic with  
3 the PCC, the Pacific Coast Collaborative, and some  
4 of the other regional entities, and how those can  
5 bolster and work with and sort of build upon what  
6 NASEO does, and maybe even influence what the  
7 broader national group does. I think there's a  
8 lot of potential there that I'm trying to start to  
9 explore, you know, the fact that we've got a block  
10 out here doing innovative things, particularly in  
11 the clean energy realm on appliance standards, on  
12 transportation, on other areas, I think in the  
13 context of, say, 111(d) and this sort of national  
14 state level shakeout that's happening in terms of  
15 each state trying to consider how it's going to  
16 respond and how it's going to comply with 111(d),  
17 I think it allows us to provide some creative  
18 leadership in that discussion nationwide.

19           The other thing is just that, you know,  
20 DOE officials at various levels, at all levels  
21 really, kind of take that entity seriously because  
22 they really do, you know, all the State Energy  
23 Offices are members, and so when a meeting of the  
24 Board is convened in D.C., DOE comes over and  
25 meets with us as a group and individually if we

1 want to, so it makes it just efficient to kind of  
2 get a lot of meetings in a short period of time in  
3 D.C. with the right people from the Department of  
4 Energy and other places, other Federal agencies.  
5 So I did quite a bit of that, a lot of talk about  
6 sort of what's going on in the various proceedings  
7 on appliances and energy efficiency generally at  
8 DOE and coordination among the other agencies with  
9 EPA and Energy Star, and a lot of the data issues  
10 that the Federal Government is doing a lot of  
11 leadership on these days, trying to coordinate our  
12 state with what they're doing. So the NASEO kind  
13 of provides a nice forum for doing that  
14 effectively and efficiently.

15           The other thing I was able to do was  
16 attend the ACEEE, every two years they do the  
17 summer study on energy efficiency in buildings  
18 down in Asilomar at the Conference Center down  
19 there in Pacific Grove, and this is probably -- I  
20 went for the first time in Graduate School when I  
21 was working at LBL, I went down there and  
22 presented a paper and I think it was 1992, and the  
23 original group that started that conference is  
24 still going, every one, some have a perfect record  
25 and they've been to all 18 of them, and every

1 other year, you do the math, it's a long time.  
2 And it just shows you what a dedicated bunch it is  
3 because there were a lot of familiar faces down  
4 there. I felt a little bit aged myself, but  
5 refreshingly there were some new faces, young  
6 people really looking at interesting issues, a lot  
7 of talk about how to leverage data, you know, big  
8 data is becoming a little bit of a hackneyed term,  
9 but the fact that we have informational resources  
10 that even just five or six years ago weren't  
11 available to us, it wakes up a lot of creative  
12 thought in people wherever you sit in this area,  
13 that there is just more data strategically  
14 analyzed, can provide better knowledge and  
15 decision making, or enable better decision making,  
16 so there's just a lot of interest in figuring out  
17 how to do that, and also a lot of barriers, you  
18 know, how to get the right data, the right person,  
19 you know you don't want too much data, that's also  
20 a big pitfall, but you want the right data at the  
21 right time and doing the right analysis. So a lot  
22 of challenges there that many many people are  
23 focused on solving.

24           And I guess the other kind of big thing I  
25 would just highlight, there's definitely a sense

1 that we -- this was a national conference, so  
2 there were a lot of people from other states, you  
3 know, there definitely is a sense that we in  
4 California could be doing quite a bit better on  
5 our energy efficiency. You know, everyone  
6 acknowledges that we've been leading for a long  
7 long time that we were doing this when nobody else  
8 was doing it, and that we have an incredible track  
9 record that has just generated massive social  
10 good, you know, private good, has improved our  
11 economy across the board for the last several  
12 decades. We have a big system here, we've got a  
13 huge economy, and a lot of stakeholders in this  
14 endeavor, in this efficiency and clean energy  
15 enterprise. And I think with all that's going on  
16 in the sector, there's definitely a sense that we  
17 need to figure out what the next keys to the next  
18 doors look like, how we're going to get that  
19 incremental savings, how we're really going to go  
20 and do better than the mid case that we're sort of  
21 comfortable with adopting in the demand forecast,  
22 but how are we really going to meet those long  
23 term goals for 2050, how are we really going to do  
24 that?

25 CHAIRMAN WEISENMILLER: UCLA I think we're

1 pushing, or are we even going to meet the mid  
2 case.

3           COMMISSIONER MCALLISTER: Yeah, well,  
4 okay, fair enough. I think that the glass is at  
5 least half full in terms of -- I think that's what  
6 we said is that we think the glass is about half  
7 full, right, when we adopted the mid case. But we  
8 really do need to do better and I think there are  
9 a lot of creative people thinking about how we  
10 might do that, and a lot of it goes to being very  
11 targeted with our initiatives, being efficient  
12 with them, but really influencing behavior in a  
13 way that I think the traditional approaches to  
14 programs hasn't really had to go, had to try to  
15 solve that problem. I think they've really done a  
16 good job getting the widgets out there, getting  
17 information out there, educating folks, and sort  
18 of plug and chug type programs, but now we really  
19 have to be more creative and subtle and I think  
20 there was a preponderance of attendees at the  
21 conference and increasingly just day to day in  
22 conversations with folks in the energy efficiency  
23 realm, there's a lot of desire to really just  
24 attack this problem head on and get the kinds of  
25 information that are going to let us understand

1 the problem better and then understand the impacts  
2 of the policies that we put in place to attack it.  
3 So anyway, that was quite a heavy couple of days  
4 down there, it's a whole week conference, and I  
5 personally just can't even get past two days or I  
6 get saturated and have to sort of remove myself,  
7 but some people do get out for the whole week and  
8 I'm very impressed by that. So anyway, two more  
9 years will go by and one thing that I think is  
10 important is to get the Commission submitting  
11 papers, kind of getting sort of a little bit more  
12 intellectual leadership in that kind of a realm,  
13 sort of push the discussions a little bit from the  
14 California perspective because I think my  
15 perspective is that over the last couple of  
16 decades that's waned a little bit, and we could I  
17 think do better at getting back in a leadership  
18 position and sort of getting papers accepted,  
19 providing some ideation, getting on teams that are  
20 submitting papers and things like that. So I  
21 think there are a few areas where we could do that  
22 very productively in there.

23 CHAIRMAN WEISENMILLER: I was going to  
24 say, so for your trivia question, the initial  
25 conferences were at U.C. Santa Cruz for that, and

1 at least at that point in terms of participating,  
2 which I did, you know, basically the idea was to  
3 organize panelists and that may again be a good  
4 role for us and at least one of the ones I did the  
5 panel for eventually became financing energy  
6 efficiency, so that would again be a progression.  
7 But having said that, again, I was at UCLA and in  
8 some respects I'd have to characterize myself as  
9 channeling you, I mean, the status report of what  
10 was going on across the board and the reality is  
11 not as much has happened in the past year that I  
12 would have liked to have seen happened. You know,  
13 certainly here in terms of trying to flesh out the  
14 contingency part, we're working on that. But  
15 again, it's hard. You know, certainly on the  
16 energy efficiency side, I remember all the things  
17 last summer we were hoping to see by now and  
18 they're not there, you know, Edison has done the  
19 living pilot, and the results, as you know, aren't  
20 really available for anyone except to say stay  
21 tuned. You know, there was a certain amount of  
22 conversation again on the energy efficiency, but  
23 the whole sense of what are we really doing,  
24 again, it's fine to have a lot of words about  
25 energy efficiency, but we really need megawatts

1 down in those two counties, and so the question is  
2 what is really going on out of the business as  
3 usual, and certainly we both had conversations  
4 about how the utility business as usual, energy  
5 efficiency programs need to be ramped up, much  
6 less translating them into what we're trying to do  
7 in those areas, which is very much targeted to  
8 those areas, targeted to a certain time, and much  
9 more of a portfolio. So anyway, again, it was one  
10 of those things and we'll certainly be having a  
11 similar event next year and probably for a number  
12 of years, and down in Southern California, and  
13 again I think the hope is we'll see more progress  
14 as we go along. Obviously some of this is start-  
15 up, but again it definitely needs more rubber  
16 hitting the road.

17 I'll be brief, so I mean, that's the L.A.  
18 part. I would note that I guess, as Chair, I  
19 guess I also do International Relations, and that  
20 may have been feeling glamorous in the last  
21 Administration, in this Administration it's a lot  
22 more work and less whatever. So you know, last  
23 year I went to China, this year I've gone to  
24 Mexico with the Governor, Mexico City, we had a  
25 very good event yesterday in Sacramento with the

1 President of Mexico, the first time he has visited  
2 the U.S. is to Sacramento, so again just to give  
3 you a sense of the relationship. We did a number  
4 of MOUs in Mexico, including one on Energy and one  
5 on Climate, certainly also education. Yesterday's  
6 was tourism, economic development, so pretty  
7 across the board partnership on these areas. The  
8 Energy one is particularly a great time, the  
9 President of Mexico has just signed sort of a  
10 fundamental shakeup of their energy system opening  
11 up lots of opportunities now for renewables there,  
12 you know, but I would say certainly a good  
13 opportunity to chat with them about their energy  
14 efficiency programs and, as Andrew knows well, I  
15 mean, they have a lot of Appliance Standards.  
16 They coordinate better through LBNL with DOD, DOD  
17 as opposed to the Energy Commission, but they have  
18 a pretty aggressive set. Building Standards, less  
19 impressive, you know, LBNL developed about a  
20 decade ago commercial standards for them, which  
21 become effective province by province, so they're  
22 still not in place totally. Residential, they've  
23 done something a little better. But anyway, the  
24 bottom line is there's lots of opportunities with  
25 Mexico and we had a very large delegation, much

1 larger than China, and there was a very large  
2 component of that of energy folks, particularly  
3 renewables. So we had a very good forum one night  
4 on energy stuff with the Mexican energy officials,  
5 certainly the State folks, a lot of the  
6 developers, a very good conversation on the  
7 emerging policies and giving people sort of an on  
8 the ground understanding of what was going on. We  
9 were there when the legislation was actually being  
10 voted through the lower house, so it was really  
11 real time feedback on stuff.

12           And also on the educational opportunities,  
13 both CFE and Pemex were pretty clear that, as we  
14 have in California, aging workforce issues with  
15 our utilities, that they do also, and that at the  
16 same time with the new system they're going to  
17 need really to suddenly come up with entities like  
18 the PUC, the Energy Commission, and the ISO, so  
19 along with just getting energy folks, they need  
20 energy regulatory folks, which as we know is sort  
21 of hard to come up with.

22           So anyway, pretty interesting times here,  
23 exciting times, lots of opportunities, lots of  
24 challenges there. And I think, again, with the  
25 Governor, as I pointed out a couple times in

1 meetings I've been with him on, that our  
2 relationship with Mexico actually pre-dates the  
3 Pilgrims, so we have a lot of connections, a lot  
4 of roots, certainly a lot of economic flows back  
5 and forth, people have families, a large  
6 percentage of our population comes from Mexico, I  
7 think it's like 50 percent of the kids in our  
8 schools have sort of Mexican heritage, some fairly  
9 recent, some less so, but the bottom line is that  
10 it's a good opportunity to really grow those roots  
11 and connections. And the Governor, really his  
12 vision is not to have the border as sort of an  
13 encamp, but instead to really be reaching across  
14 the border and really on the refugee crisis, he  
15 really framed it much more as a human issue and  
16 much less "let's have the National Guard prepare  
17 to deal with these kids."

18 COMMISSIONER MCALLISTER: That's great to  
19 hear.

20 CHAIRMAN WEISENMILLER: Yeah, it was  
21 marvelous. I mean, he actually had a very good  
22 event in Mexico City with basically the  
23 Archdiocese of Los Angeles, the Arch Bishops from  
24 Mexico, Arch Bishops from Central America, but  
25 again to really address the human issue there, the

1 issues of the kids in terms of their lives being  
2 in danger where they are and looking for a better  
3 life.

4           COMMISISONER MCALLISTER: Can I just ask a  
5 quick question? So was there much talk about sort  
6 of the actual Grid and sort of the integration  
7 across the border with Northern Baja and --

8           CHAIRMAN WEISENMILLER: Yeah, I mean, we  
9 had a very good meeting, myself and CAISO was  
10 there with me, and we had a very good meeting with  
11 them on that, really getting into some of the nuts  
12 and bolts on what we could do to better facilitate  
13 flows of power and grid integration. And again,  
14 they have to set up an Independent System  
15 Operator, so we certainly made it clear we're  
16 there to help, but in addition, again, a lot of  
17 interest in joint projects, cross border projects  
18 to set up something similar to the REPG, but more  
19 between California and Baja, between us,  
20 California Energy officials, and the Baja  
21 officials to look at joint projects. In fact, I  
22 wasn't even out of Mexico and it looked like I may  
23 have had to go not quite straight, you know, get  
24 home late Wednesday and end up down in Baja on  
25 Friday, but fortunately it was pushed back. So

1 anyway, a lot to do there.

2           COMMISSIONER MCALLISTER: That's great.  
3 For a number of years I worked sort of in that  
4 border area on the Maquiladoras and doing energy  
5 efficiency in that realm, and really kind of  
6 recognized the need for support in a number of  
7 different ways, types of support for the ESCO  
8 industry there, and kind of to stand that up to do  
9 efficiency and to I think decrease, you know,  
10 provide more solid financing tools and decrease  
11 some of the hesitancy of potential, sort of the  
12 CFOs of the different companies to actually make  
13 the investments because they perceive really more  
14 risk than there actually was, but that whole  
15 ecosystem kind of wasn't really there for them to  
16 help them make that decision, and so I think  
17 there's a lot of potential there to get those  
18 kinds of industrial and commercial sector  
19 investments.

20           CHAIRMAN WEISENMILLER: Yeah, I mean,  
21 having said things are opening up, you know, if  
22 you look at the energy rates there, I don't think  
23 you're going to see much solar on rooftop for  
24 houses at this stage, but when you look at  
25 commercial industrial, you know, there's a huge

1 market, I mean, some of the first projects frankly  
2 have been and they're very conducive to basically  
3 if you have a CEMEX cement plant, or if you have  
4 Wal-Mart, you know, where you basically put a  
5 solar or wind farm at that plant, you can then  
6 move the power around through your other  
7 facilities and at the same time you, the renewable  
8 developer, have an offtake agreement with a  
9 bankable -- a Wal-Mart or someone that you can  
10 just get financed right away, so it really cuts  
11 through a lot there, and it's certainly easier  
12 than trying to, say, negotiate with OCFE. So  
13 hopefully that will change over time, but I'm just  
14 saying at this point it's pretty clear that the  
15 renewable folks are very focused on those sort of  
16 commercial industrial large customers. And with  
17 that unique opportunity to move the power all  
18 around through Mexico, it really should provide a  
19 lot of impetus there. Again, a huge topic, we can  
20 talk a lot more about it, but we certainly will  
21 over the coming years.

22           And I wanted to pass briefly on sort of  
23 the Napa Earthquake, and probably more to Rob, but  
24 you know it's actually interesting in terms of  
25 history where Rusty Schweickart, before he became

1 the Chair of the Energy Commission, was the  
2 Governor of Science and Technology Advisor, and in  
3 Brown 1, one of the things Rusty really encouraged  
4 the Governor was to think about earthquakes, and  
5 saying that it may or may not be a significant  
6 earthquake in his term, but we as a state really  
7 had to get ready. And the first time there really  
8 wasn't a significant earthquake, but I think based  
9 upon Rusty and the Governor's actions then, we  
10 certainly got better prepared over time and  
11 certainly Loma Prieta further encouraged us. So  
12 the earthquake occurred about 3:20, the epicenter  
13 very much Napa. I think by 7:00, well, Emergency  
14 Center opened, Rob actually represented us there,  
15 there was a Cabinet meeting by 7:00ish to discuss  
16 the earthquake, an emergency order was drafted, I  
17 mean, basically they were moving forward at a time  
18 they weren't sure, I guess, where basically the  
19 local Emergency Center actually was leveled by the  
20 earthquake and they had to move it to -- they had  
21 to reconnect someplace else. So at least the  
22 initial calls from the state, you know, to the  
23 County, there was no response whatsoever, so they  
24 were totally blind on what was going on. But  
25 having said that, one of the things, and there was

1 an interesting article in the Chronicle, I think  
2 it was yesterday, about PG&E's response, and Brian  
3 Cherry was marvelous in terms of getting  
4 information to me, pretty detailed information on  
5 PG&E's activities, but again, compared to, say,  
6 Loma Prieta, this was much smaller, it was a much  
7 more remote area, so it wasn't quite the same  
8 magnitude of what they were dealing with. But  
9 with the automatic meters, they could know where  
10 there was a loss of service and where there  
11 wasn't, as opposed to sending trucks out. And at  
12 the same time, they went through pretty carefully  
13 with the gas system and, again, the sort of  
14 innovative technologies they have there were put  
15 in service to try to find gas leaks and sort of  
16 fix those. So, again, there was still 100 or so  
17 houses that were without service because of  
18 problems with the house, but it was pretty  
19 remarkable how smoothly things went. Karen?

20 COMMISSIONER DOUGLAS: So I have two  
21 things to report. I did want to touch briefly  
22 back on the IEPR workshop that Commissioner Scott  
23 brought up. The one on Use of Environmental  
24 Considerations in Energy Infrastructure Planning,  
25 we had an agenda item earlier today on the Desert

1 Renewable Energy Conservation Plan, it's a  
2 landscape plan that will identify areas for  
3 development within the context of a broader  
4 landscape scale conservation strategy, and that's  
5 the kind of thing that's just so important,  
6 especially in areas like the desert which have  
7 such a high demand and potential for renewable  
8 energy and also at the same time a very rich and  
9 fragile ecosystem and environment, especially in  
10 the context of climate change and the need for  
11 strategies, for adaptation, for long term  
12 conservation, for climate change.

13           And so we've got this landscape planning  
14 effort in the desert and one of the questions that  
15 we are grappling with and have been for some  
16 period of time is what's the best way, what's the  
17 best mechanism to connect that kind of plan to our  
18 transmission planning work that's done at the ISO  
19 to the Long Term Procurement planning which helps  
20 inform transmission planning and to procurement.  
21 And beyond that, of course, there are other  
22 regions of the state with a great deal of  
23 renewable energy potential where this kind of  
24 planning has not been done, although other efforts  
25 in some areas have been done. And there's the

1 question of how we integrate into our thinking and  
2 potentially really with the ability to look at  
3 real data and real environmental information areas  
4 that might be outside of the state or, as the  
5 Chair mentioned, perhaps even outside of the  
6 country. And so we had what I will characterize  
7 as certainly not an initial conversation, but also  
8 not a conclusive conversation, a good dialogue  
9 where we really kind of touched base on -- we had,  
10 as Commissioner Scott noted, Commissioners there  
11 from Public Utilities Commission, we had great  
12 representation from the Independent System  
13 Operator, the staffs of these agencies have been  
14 working together very closely, as well the State  
15 Director of the California Bureau of Land  
16 Management was there, and so we had a great group  
17 of stakeholders from really a lot of different  
18 sides of the issue, and we just had a really good  
19 dialogue. I almost think of it as problem  
20 definition, you know, what are we trying to  
21 achieve? What's the problem we're trying to  
22 solve? What are the tools we have to connect  
23 these things in a way that makes sense? And what  
24 do we need to watch out for or try not to  
25 inadvertently do as we think about how to make use

1 of this new kind of approach and tools that are  
2 out there to use as kind of information and ways  
3 that it really hasn't been used in the past? So I  
4 know the Chair was there, and I don't know if  
5 you'd like to add anything on that, but I was  
6 really, as was Commissioner Scott who just  
7 mentioned this, you know, I was really pleased  
8 with the way the workshop came out and I thought  
9 it was a really helpful step.

10           CHAIRMAN WEISENMILLER: Yeah, I was just  
11 going to say I thought it was a very good  
12 foreshadowing of the DRECP. It certainly  
13 highlighted some institutional issues of, you  
14 know, there's somewhat of a PUC tendency to try to  
15 replicate everything going on elsewhere perhaps,  
16 and certainly not as well, so I certainly  
17 appreciated Commissioner Picker trying to shut  
18 down that activity.

19           COMMISSIONER SCOTT: Let me just also note  
20 that Commissioner Douglas was pretty masterful at  
21 facilitating a discussion with about two dozen  
22 panel participants, and we really did, we had a  
23 great conversation and got good information out of  
24 it, so great job.

25           COMMISSIONER DOUGLAS: Well, thank you for

1 that. And on that note, I'll just go into my  
2 second report. Yesterday, I testified at the  
3 Little Hoover Commission, they held a hearing on  
4 Bagley-Keene, and in particular the 2009  
5 amendments to the Bagley Keene Act which  
6 significantly broadened the serial meeting  
7 prohibitions in the Act and also arguably  
8 introduced some ambiguity as to what kinds of  
9 communications are prohibited under the Act, and  
10 so I really didn't know I was going to do this  
11 until the day before yesterday, and the day before  
12 that, if I was in the country, it wasn't for very  
13 long. So I did have to shove other things aside  
14 and kind of gear up and try to refresh my memory  
15 as to the many things that we actually did do at  
16 the Energy Commission to change our practices, not  
17 overnight, but over time, and over a pretty  
18 significant period of time just to get our heads  
19 around what these changes might mean for us and,  
20 for example, we moved to a system of attempting to  
21 very clearly delineate issue area specifications  
22 for Commissioners and to institute a Bagley-Keene  
23 buddy system so that we, to the best of our  
24 ability, know who can talk to whom about what, and  
25 to attempt to make sense of language regarding

1 item of business within the subject matter  
2 jurisdiction of the body, to further delineate if  
3 someone is a Bagley-Keene buddy with someone on  
4 one item, but in what circumstances can they be a  
5 Bagley Keene buddy with someone else on a  
6 different item, and so we have to the best of our  
7 ability done this, and of course we have also  
8 looked at what other agencies do, in particular  
9 the PUC, but others in terms of how they interpret  
10 some of this language, and how it has changed both  
11 here and at other agencies, things like the role  
12 of advisors, the role of staff, the ways in which  
13 communications do occur, the types of  
14 communications that no longer occur. And so  
15 really this workshop was mostly focused on the  
16 CPUC, the question the Little Hoover Commission  
17 asked us when they invited us to appear was  
18 whether other agencies are similarly affected, and  
19 the answer to that was yes, and to some degree  
20 we've done similar things to what the CPUC has  
21 done to address this and there may be here or  
22 there shades of difference, but there certainly  
23 has been an effect in terms of reduced  
24 communication in many areas between Commissioners  
25 and also a rather complex web has now been created

1 of Bagley-Keene buddies in terms of who actually  
2 talks to whom about what. And obviously I was  
3 very clear to emphasize that we are strong  
4 supporters of the Bagley-Keene Act and we  
5 implement it, and what's written on the paper is  
6 what we implement, you know, at least to the  
7 maximum ability that we have to understand it.  
8 And so we were really providing information about  
9 what we have done to adjust to it and what it has  
10 meant in terms of our operations. But we were not  
11 there presenting a list of ideas of what changes  
12 might or might not be considered or made.

13           So that was yesterday morning. And I  
14 don't know if anyone has any questions or wants to  
15 hear more about that.

16           CHAIRMAN WEISENMILLER: No, I guess I  
17 would just note for the audience the reason why  
18 we're talking as much as we are now is this is one  
19 of our only opportunities to have a conversation.

20           COMMISSIONER DOUGLAS: Yes, that's  
21 correct. And that's a good thing, and I think it  
22 is good that we use this time on the Business  
23 Meeting Agenda to talk about things, mutual  
24 interests, and I know that this is one item that  
25 obviously impacts all of us in terms of just how

1 we communicate and what we communicate about.

2 MR. LEVY: May I add a comment there?

3 COMMISSIONER DOUGLAS: Sure.

4 MR. LEVY: I was at the hearing with  
5 Commissioner Douglas and what was interesting to  
6 note, I think it was best articulated by Professor  
7 Fellmeth at University of San Diego, that the  
8 Bagley-Keene Act was not really designed for State  
9 bodies that are vertically organized, where  
10 different members of the State body have different  
11 subject matter areas that overlap across subjects.  
12 The Act itself was really designed for a  
13 horizontal body like a Planning Commission or a  
14 State body that's a volunteer board whose staff  
15 sets the agenda, and they come in line by line and  
16 they vote on discrete permits or discrete items.  
17 And so there was a recognition that with the  
18 expansion of the Amendments, it may in some  
19 degrees, may have had some unintended  
20 consequences, actually shut down communication  
21 altogether rather than bringing more communication  
22 into the public limelight. So we'll see what  
23 happens further from there.

24 CHAIRMAN WEISENMILLER: Yeah, well  
25 obviously Bill Bagley was a PUC Commissioner and

1 after I ran into Bill and talked about the  
2 Amendments, Bill told me just to ignore them, you  
3 know, that from his perspective, I don't think he  
4 wants his name associated with the bill any  
5 longer.

6 COMMISSIONER MCALLISTER: Interesting. So  
7 what was Bob Fellmeth's role in -- or I guess what  
8 was his area of expertise that they asked him to  
9 testify on?

10 MR. LEVY: Oh, essentially the whole  
11 subject was about the 2009 Amendments and how  
12 they've affected business in the State of  
13 California. It was precipitated, I think, by  
14 Commissioner Ferron's leaving comments to the  
15 Little Hoover Commission about how it's interfered  
16 with the ability of the Commissioners at the PUC  
17 to actually know what's going on in the PUC  
18 because of the way that they're organized in a  
19 managerial role. And so I think the Little Hoover  
20 Commission was following up on that, which was the  
21 purpose of the hearing.

22 COMMISSIONER DOUGLAS: You know, there's  
23 no question that there is a challenge for us here  
24 and there has been and, you know, I think a lot of  
25 us are very familiar with the way that we've sort

1 of stretched our minds to try to deal with the  
2 challenge. And Energy Commissioners are supposed  
3 to be and are by statute appointed from different  
4 backgrounds; we've got an attorney Commissioner,  
5 an Engineer/Scientist, an Economist, an  
6 Environmental Seat, a Public at Large Seat, and  
7 inherent in that is the understanding that you  
8 need kind of a robust exchange of ideas from these  
9 different perspectives and from a Policy Board,  
10 and of course a lot of that robust exchange can  
11 and does occur in public and of course, you know,  
12 the focus of the serial meeting prohibition, I  
13 think, is to ensure that we're all very very clear  
14 that when we've got something that, you know, this  
15 Board is going to act on, or you know, it's a  
16 discrete item, it's something that is agendized,  
17 or is on its way in development to being at some  
18 point in the reasonable foreseeable future going  
19 to be agendized and going to be acted on, that we  
20 have to have that debate in public, we don't line  
21 up votes, we don't negotiate, we don't try to make  
22 deals, that's a debate that occurs in public. But  
23 the challenge for us is that in trying to  
24 delineate by subject matter who can talk to whom  
25 about what, we find that in the energy world

1 everything is actually very very interconnected,  
2 and it's very fast moving, and you know, how do  
3 you think through the demand forecast without the  
4 most cutting edge and up to date understanding of  
5 energy efficiency policy in transportation  
6 electrification and development of Smart Grid and  
7 Demand Response? And so we find ourselves  
8 hampered, if nothing else, by hours in the day and  
9 human capacity to sit here like this after a long  
10 Business Meeting when --

11           COMMISSIONER MCALLISTER: Or a staff  
12 ability to provide an identical briefing five  
13 times about the same issue, and maintaining  
14 creativity in that. We're also really under the  
15 gun to achieve some pretty large and ambitious  
16 goals, so maintaining creativity in that setting  
17 becomes --

18           COMMISSIONER HOCHSCHILD: I would just  
19 tell you we're in a period of enormous innovation  
20 in the energy industry, right, and I just think  
21 some innovation in the actual structure guiding  
22 the energy policy bodies is timely. I met also  
23 with Commissioner Florio on Monday and, you know,  
24 I'm very grateful to both you and to him for  
25 testifying, and they're in the exact same

1 predicament, he really feels it undermines his  
2 ability to have necessary dialogue, timely  
3 dialogue with his colleagues. I just think at the  
4 end of the day, I mean, as for me personally as a  
5 Commissioner, it's the hardest part of the job,  
6 the inability to actually communicate with my  
7 colleagues, except the group once a month in a  
8 limited format, which slows everything down and I  
9 actually think -- and then there's all these sort  
10 of inconsistencies of there's no limitation at all  
11 between Energy Commissioners talking to PUC  
12 Commissioners, or the Legislators talking to each  
13 other. But I do think it's in the public interest  
14 to facilitate the ability of Commissioners to  
15 share ideas and updates on topics. I think that  
16 actually advances the public interest and I'm  
17 grateful to you for speaking to the Commission  
18 about that.

19           COMMISSIONER DOUGLAS: Well, you know, it  
20 was a very interesting hearing and it's a very  
21 interesting topic, and it's close to all of our  
22 hearts because we live it. And on one hand, it's  
23 very clear that the Bagley-Keene Act intends to  
24 require agencies to function in a certain way that  
25 makes things more transparent, and to the extent

1 that there's a tradeoff between transparency and  
2 efficiency and we're a little less efficient  
3 because we're more transparent, that's a good or  
4 at least that's a value judgment that the  
5 Legislature has made and that we're implementing.  
6 I think the amendments may have had some further  
7 reaching consequences unintended for certain kinds  
8 of Boards, and we'll see, we'll see how strong and  
9 sustained the interest of the Little Hoover  
10 Commission or anyone else is and, as I said, we  
11 were really just there to provide background  
12 information on what changes we have made at the  
13 Energy Commission to comply with the language.

14           COMMISSIONER HOCHSCHILD: No major updates  
15 from mine, I'll just share real quickly one of the  
16 things we're doing on New Solar Homes as part of  
17 the contract with CESA, the Clean Energy States  
18 Alliance, which we've been participating in, it's  
19 been very fruitful for us, and they are going to  
20 do a study for us on the New Solar Homes market  
21 and the program toward the end of the year. I had  
22 a very fruitful visit with Stanford last week, the  
23 Precourt Institute, checked in on a bunch of  
24 policies, and every stakeholder meeting I go to I  
25 always ask the question, you know, how are we

1 doing as the Energy Commission? What could we do  
2 better? And basically I'm getting very good  
3 feedback. One thing that's come up a couple times  
4 is people seeking information, it's not always  
5 clear what parts of the Energy Commission, and  
6 that's true for me, too, where to go, so one task  
7 that I worked out with Suzanne just this week,  
8 Suzanne Korosec, is just to update the list of all  
9 the topics and the experts within the Energy  
10 Commission who are like the go to people. I  
11 understand there was a list, but we've had a lot  
12 of turnover on staff, so she's going to take that  
13 on. But getting a lot of otherwise very positive  
14 feedback about the direction we're going, and  
15 that's from municipal utilities like Turlock that  
16 I just met with, and Universities, and others. So  
17 that's good to hear.

18 CHAIRMAN WEISENMILLER: Great. All right,  
19 Chief Counsel Report.

20 MR. LEVY: I have nothing else to report.

21 CHAIRMAN WEISENMILLER: Executive  
22 Director's Report.

23 MR. OGLESBY: Thank you, Mr. Chairman. I  
24 guess I just would add on a little bit on the  
25 earthquake and the role of the Energy Commission

1 during the emergency was to help provide  
2 assessments of damage in the immediate aftermath  
3 of the earthquake, and in this case the gas and  
4 electricity involved a single utility, so that  
5 made things a bit simpler, but I wanted to point  
6 out that one of the unique abilities of the Energy  
7 Commission was to provide an assessment on the  
8 refineries and pipelines, and that took  
9 extraordinary work by staff and others to reach  
10 folks after hours. These emergencies always seem  
11 to have happened at a time other than business  
12 hours, and in fact the odds of something happening  
13 during regular business hours are less than one in  
14 four, so we have plans to reach people during off  
15 hours and that's when things are really most  
16 likely to occur anyway.

17           Finally, I would just add that the State  
18 of California has extraordinary capabilities in  
19 emergency response. We have a headquarters at OES  
20 which is the best there is, the staff is very  
21 competent, and the folks who come in to respond to  
22 emergencies are extremely experienced and  
23 competent. There's no figuring out what to do or  
24 what questions to ask, it's been planned. That's  
25 not to say that there isn't a scale of emergency

1 that couldn't overwhelm the resource and ability  
2 to respond, but certainly the State of California  
3 has done a lot to prepare, put the infrastructure  
4 in place, and have skilled staff to respond to  
5 emergencies.

6 CHAIRMAN WEISENMILLER: Thank you. Public  
7 Advisor Report.

8 MS. MATTHEWS: Good afternoon. Just to  
9 give you a quick update, we've received a number  
10 of calls every month, within the last month since  
11 the last Business Meeting, it was a lot of siting  
12 calls related to the informational hearing for the  
13 Carlsbad Energy Project. But we've also received  
14 a number of calls related to AB 1103, EPIC, HERS  
15 Rater issues, Title 24, Prop. 39, and the Title 20  
16 Emergency Regulation Amendment. Additionally, my  
17 office has provided support to the Siting  
18 Division, as well as the Palen -- we provided  
19 support in siting for the Palen Solar Prehearing  
20 Conference, as well as the evidentiary hearing,  
21 and the Huntington Beach Project, as well as the  
22 Carlsbad site visit and informational hearing.  
23 And lastly, there was one other area per the  
24 request of Commissioner Hochschild, we have also  
25 signed up additional people for the Spark, so

1 wherever the Public Advisor's Office is providing  
2 support, we will provide additional information  
3 for that, so we've got more numbers on that.

4 COMMISSIONER HOCHSCHILD: Thank you for  
5 doing that.

6 CHAIRMAN WEISENMILLER: Thank you. So  
7 let's go to public comment. We have four cards  
8 and I'm just going to go in order of the cards.  
9 So Mr. Shearer, do you want to try again? And  
10 thanks for your patience.

11 MR. SHEARER: Hello again. In my capacity  
12 as training consultant to California Electrical  
13 Training, I'm here to represent with their  
14 permission the Directors of the National Lighting  
15 Contractors Association of America, who send their  
16 greetings. I would like to broadly address the  
17 thrust of the training that's been developed for  
18 Lighting Controls Acceptance Test Technicians and  
19 it is three-fold; firstly, to introduce field  
20 technicians to compliance forms other than the  
21 acceptance testing forms, so that they can  
22 identify the systems that require testing, because  
23 you can't test something if you don't know what to  
24 test; 2) to familiarize them and drill them on the  
25 mechanics of testing lighting control systems,

1 particularly day lighting systems; and 3) how to  
2 fill out the acceptance testing forms required  
3 line by line.

4           While conducting related training, we  
5 discovered some deficiencies in the knowledge of  
6 the students, things they had problems with, 1)  
7 finding Code articles, 2) understanding  
8 daylighting systems, in particular closed loop  
9 lighting systems, and 3) working with ratios and  
10 percentages. Many of these people have not been  
11 asked to do this since high school. So, to that  
12 end we have developed a practical Code, a form  
13 oriented course of training that provides  
14 theoretical training on daylighting systems,  
15 drills them, reintroduces and drills them on  
16 ratios and percentages that are required to do the  
17 acceptance testing, and forces them to find  
18 answers in the Code reference documents. They  
19 also must fill out actual portions of acceptance  
20 testing forms while doing simulations of  
21 acceptance testing that are done on small test  
22 stands. We have test stands for shut-off  
23 controls, including timers, but most importantly  
24 we also have a functional closed loop continuous  
25 dimming daylighting system trainer and an open

1 loop step switch daylighting trainer in which they  
2 can insert a light meter and, by turning a knob in  
3 one case, well in both cases adjusting the  
4 sunlight, can take illumination readings and  
5 estimate power readings. We find these labs a  
6 real eye-opener for these guys and they really  
7 work. Thank you for your time.

8 CHAIRMAN WEISENMILLER: Thank you. Jack  
9 Yapp.

10 MR. YAPP: Good afternoon, Commissioners  
11 and thank you for having me up here. First of  
12 all, I'd like to express the fact that in this  
13 acceptance testing issue for lighting controls, I  
14 opened up the manual back in June last year and  
15 all 1,464 pages, and pulled the excerpts out and  
16 I'm trying to determine how would a contractor or  
17 electrician form this work. And it was pretty  
18 well complex, to say the least. And so what I did  
19 is I developed a software program to incorporate  
20 for the acceptance testing, and the software  
21 program resides in a server and the documentations  
22 are given for the testing itself is, and using an  
23 iPad, by the way, and you use a verification as  
24 well as the measurements. The calculations for  
25 the Demand Response is built in to the software so

1 no errors, and also as well as the percentage of  
2 reduction on automatic daylight. The essence of  
3 having it in the software program for this testing  
4 to the calculations is critical because what  
5 occurs if the project does not pass the test, they  
6 will not get a Certificate of Acceptance. So back  
7 in June last year, I said this must be part of the  
8 testing procedure because this is consistent. And  
9 the forms are all set up that way. We have  
10 available for CEC to access any time, to take a  
11 look at the reports, the individuals' names on  
12 there, as a matter of act, added features for  
13 example on occupancy sensors you have up to seven  
14 -- you can use one as a sample and use the rest  
15 for the selections. Our ability to take a picture  
16 of the sensor and embed it into software makes the  
17 quality assurance much better, and the quality  
18 assurance is what is required now because, again,  
19 this is a very crucial part of the testing is the  
20 quality assurance, what did he do and how did he  
21 perform the work? The way the software is  
22 developed, they must put in the proper information  
23 or it will not continue. And as well, as the  
24 Certificate of Acceptance, you could use a stylus  
25 to sign as originator, as well as the contractor,

1 and as well as the technician.

2           The other thing I want to mention is the  
3 fact that, when you do a test on one of the  
4 systems, and if it does not properly function,  
5 there's a comment field and you just enter the  
6 comment field and you could email it, fax it, or  
7 print it out for the person to correct that issue.  
8 And it's really, to me, a gratifying thing to be  
9 able to participate in that. Thank you very much.

10           CHAIRMAN WEISENMILLER: Thank you. Tommy  
11 Young.

12           MR. YOUNG: Thank you, Commissioners, for  
13 the opportunity to speak. My name is Tommy  
14 Young, I'm speaking on behalf of EC-2013, it's  
15 short for an ad hoc committee and website called  
16 Energy Code 2013. We're comprised of Energy  
17 Consultants, Builders, Architects, Engineers, and  
18 many other stakeholders who work directly and  
19 indirectly with the Energy Code. So the success  
20 of the Code is vital to all of our livelihoods.

21           I know that you are fully aware of just  
22 the background noise and the chatter and sometimes  
23 the shouting that's gone along with the roll-out  
24 and so it was our intention to find a way to a  
25 platform for one at a time moderated low level

1 opinions that we could record and collate. So  
2 nine days ago we released a survey entitled  
3 "Energy Code 2013: How is it impacting you and  
4 your business?" The opinion survey asked  
5 respondents to weigh-in on the Code, the software,  
6 HERS Registries, do they understand it, nothing  
7 like "do you like it, do you not like it?" If  
8 anybody has seen it, and I understand a lot of  
9 people have, it was meant to be as neutral and  
10 unbiased and vanilla as possible. They do get to  
11 elaborate in a few essay questions, but some of  
12 those essay questions specifically ask what ideas  
13 do you have to better this system -- that's not  
14 exactly how it's written, but I hope it implies  
15 that.

16           So I'm here to tell you that there is no  
17 nefarious subplot behind what we're doing, it's  
18 just that anybody who -- I sit on boards and in  
19 advisory groups and task forces and volunteer for  
20 all these things, and I'm always the guy at the  
21 end of the meeting that says, "I think we should  
22 do a survey, you know, I think we should do some  
23 market research." HERS has been around, for  
24 example, since 2001 and we don't know anything,  
25 we've never done a survey, but yet I can type in

1 cosmetologist and demographic, age range, salary,  
2 all these things, and so I've been asking for a  
3 market survey.

4           Let's see, last, when it's all done which  
5 is in a few days, I'd like to know how we can  
6 present the findings which will be professionally  
7 analyzed and normalized to the Commission. And I  
8 can answer any questions that you have.

9           COMMISSIONER MCALLISTER: Yeah, thanks for  
10 that. I mean, you know, the best policy is  
11 openness and I know certainly my kind of trope to  
12 staff and anybody who will listen is, hey, we need  
13 to work with the marketplace and the marketplace  
14 needs to work with us, I mean, we are in  
15 California, we've got goals that require  
16 public/private partnership in the case of HERS and  
17 other areas we sort of have this co-dependency  
18 where there's a set of rules that's given rise to  
19 an industry and we really need constant  
20 communication to keep that machine lubricated and  
21 functioning well, and I think Code Updates are  
22 similar in that way in that we really do have to  
23 have a lot of communication. So I applaud an  
24 effort, an honest effort to sort of gather  
25 opinion, gather viewpoints, you know, and would

1 just ask that, you know, let's obviously keep it  
2 civil, I know you're doing that, but keep it kind  
3 of grounded in fact and try to filter out sort of  
4 hearsay. And so that's my only ask, really, and  
5 I'm happy as the Lead on the Code Updates and  
6 Energy Efficiency generally, I'm happy to meet  
7 with you and the sort of industry representatives  
8 on this issue because I think that's really a  
9 fundamental part of a good process. So thanks for  
10 being here today.

11 MR. YOUNG: Thank you.

12 CHAIRMAN WEISENMILLER: Thank you. Last  
13 but not least, Paul Vergnani.

14 MR. VERGNANI: Good afternoon,  
15 Commissioners. Paul Vergnani, a Lab Director at  
16 CHA Corporation. First I'd like to thank the  
17 Energy Commission for their continued support for  
18 supporting innovative research to solve energy  
19 problems, it's one of the great reasons why we  
20 relocated to California about four years ago as a  
21 business. CHA Corporation has received funding  
22 under a number of different EISG and PIER funding  
23 opportunities, and we have found that especially  
24 the small grants under the Natural Gas and the  
25 Electric Program are very useful to doing initial

1 stage research and development, and so my question  
2 is, I'd like to know if there's any information,  
3 if there's a timeline for offering a similar  
4 program using EPIC Funding.

5           CHAIRMAN WEISENMILLER: I'll turn to  
6 Laurie to respond, but let me say I think the  
7 thing you need to know, most people need to  
8 understand, is we had the old PIER Program, it  
9 went to the Legislature and it wasn't funded,  
10 right? It died. I would put some of that blame  
11 on Edison, I would put some frankly on U.C., you  
12 know, U.C. was fairly clear we were given a choice  
13 at the end of either cutting their overhead or  
14 having a program go away, they suggested the  
15 program go away, and it did. So afterwards a lot  
16 of the U.C. researchers were complaining that, you  
17 know, what was I going to do to help them and I  
18 was like, "Well, go talk to your President." But  
19 having said that, we now have a gap. The one  
20 program died, we're rolling up another program,  
21 and there's going to be a gap in things that  
22 existed simply because there was not a program in  
23 place. And Laurie can talk a little bit more  
24 about the long term plans, but I mean, that's the  
25 reality we're all dealing with is there's a gap.

1 MS. TEN HOPE: Good afternoon. For the  
2 record, I'm Laurie ten Hope, the Director of the  
3 Research Program and I appreciate you being here.  
4 I think CHA Corporation is a successful example of  
5 the small grants program. I concur with you, it's  
6 been highly successful. A lot of the projects  
7 have gone on to mature to full phase projects and  
8 a lot of economic stimulus benefits, including  
9 locating in this area. We are in the process of  
10 implementing our first EPIC Investment Plan. We  
11 plan to have solicitations, most of the  
12 solicitations will be out this calendar year, so  
13 it's been a big job to transfer from the PIER  
14 Program to the EPIC Program, it's over \$300  
15 million and a lot of solicitations.

16 One of the solicitations is specifically  
17 geared to the small grants program, so it's  
18 anticipated that it will be out this calendar  
19 year, but that will be really basically to hire an  
20 Administrator for the program, so I don't know  
21 exactly when solicitations will go out, it will be  
22 before the grant program sometime in 2015. So we  
23 need to make transitions to the criteria in EPIC  
24 which have some different criteria than the PIER  
25 Program in terms of the target and make sure that

1 we do that, but it is an important program and  
2 glad to hear there's pent up demand.

3 MR. VERYNANI: Indeed. We're looking  
4 forward to it. Thank you.

5 CHAIRMAN WEISENMILLER: Great, thank you.  
6 Thanks for being here. With that, the meeting is  
7 adjourned.

8 (Whereupon, at 1:05 p.m., the Business Meeting  
9 was adjourned.)

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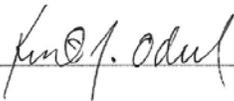
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IN WITNESS WHEREOF, I have hereunto set my hand this 2nd day of September 2014.



A handwritten signature in cursive script, appearing to read "Kent Odell", is written over a horizontal line.

Kent Odell  
CER\*\*00548

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