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| Project Title:          | 2016 Business Meeting Transcripts           |
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#### BUSINESS MEETING

#### BEFORE THE

### CALIFORNIA ENERGY COMMISSION

| In the Matter of: | ) |            |               |
|-------------------|---|------------|---------------|
|                   | ) | Docket No. | 16-BUSMTG-001 |
| Business Meeting  | ) |            |               |
|                   | ) |            |               |

CALIFORNIA ENERGY COMMISSION

ART ROSENFELD HEARING ROOM

1516 NINTH STREET

SACRAMENTO, CALIFORNIA

WEDNESDAY, JANUARY 13, 2016 10:07 A.M.

Reported by: Peter Petty

## Commissioners Present

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

## Staff Present:

Rob Oglesby, Executive Director Kourtney Vaccaro, Chief Counsel Alana Mathews, Public Adviser Shawn Pittard, Public Adviser's Office Cody Goldthrite, Secretariat

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| Joe Douglas                      | 2           |
| Jared Babula                     | 4           |
| Sylvia Bender                    | 5           |
| Suzanne Korosec                  | 5           |
| Kristen Driskell                 | 6           |
| Rachel Grant Kiley               | 8           |
| Larry Froess                     | 9           |
| Joe Loyer                        | 10          |
| Hally Cahssai                    | 11          |
| Christine Collopy                | 11          |
| Anne Fisher                      | 12          |
| Heather Bird                     | 13          |
| Ostap Loredo-Contreras           | 14          |
| Reynaldo Gonzalez                | 15          |
| Sarah Williams                   | 16          |
| John Kato                        | 20          |
| Also Present                     |             |
| Interested Parties (* Via WebEx) |             |

#### <u>Interested Parties</u> (\* Via WebEx)

| Jeffrey D. Harris, Ellison |     |
|----------------------------|-----|
| Schneider & Harris         | 2,4 |
| Jim Huber, NEBB            | 10  |
| Amber Ryman, NEBB          | 10  |

# Public Comment

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| David Dias, SMW Local 104          | 10          |
| Chris Walker, CALSMACNA            | 10          |
| *Pinakin Patel, FuelCell Energy    | 14          |
| *Travis O'Guin, LightSail Energy   | 14          |
| Alex Boesenberg, NEMA              | 22          |
| Anthony Serres, Philips Lighting   | 22          |
| Alex Baker, Lumileds               | 22          |
| *Mike McGaraghan, Energy Solutions | 22          |
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- 2 JANUARY 13, 2016 10:07 a.m.
- 3 CHAIR WEISENMILLER: Good morning. Let's start
- 4 with the Pledge of Allegiance
- 5 (Whereupon, the Pledge of Allegiance was
- 6 recited in unison.)
- 7 CHAIR WEISENMILLER: Good morning, let's start
- 8 out the business meeting, first, by congratulating
- 9 Commissioner Scott on her reappointment yesterday.
- 10 (Applause)
- 11 CHAIR WEISENMILLER: Okay, Items 7 and 13 will be
- 12 held. So, let's go on to Item 1, the Consent Calendar.
- 13 COMMISSIONER DOUGLAS: Move --
- 14 COMMISSIONER MC ALLISTER: Move Item 1. No,
- 15 second.
- 16 CHAIR WEISENMILLER: Okay. All those in favor?
- 17 (Ayes)
- 18 CHAIR WEISENMILLER: So, this passes five to
- 19 zero.
- Let's go on to Item 2, basically, Committee
- 21 Appointments. Staff, Joe Douglas, you want to start?
- MR. DOUGLAS: I will. Good morning,
- 23 Commissioners. My name's Joe Douglas. I am the Compliance
- 24 Project Manager for the High Desert Power Project. With me
- 25 this morning is Staff Counsel Elena Miller. We also have

- 1 representatives from High Desert Power Plant here, as well.
- 2 The High Desert Power Project is an 830 megawatt
- 3 combined-cycle power plant that was certified by the Energy
- 4 Commission on May 3rd, 2000, and began commercial
- 5 operations in April of 2003. The facility is located in
- 6 the City of Victorville, in San Bernardino County.
- 7 On October 30th, 2015, High Desert Power Trust,
- 8 the owner of the High Desert Power Project, filed a
- 9 petition with the California Energy Commission requesting
- 10 to amend the final decision for the High Desert Project.
- 11 The petition seeks to change the condition of
- 12 certification, Soil and Water I, to allow High Desert to
- 13 use alternative water supplies, other than State water
- 14 project water or recycled water from the Victor Valley
- 15 Water Reclamation Authority.
- 16 At this time, staff is requesting assignment of a
- 17 committee to best accommodate public participation in this
- 18 amendment proceeding. And you also have an order for your
- 19 approval that has been included in the backup material, as
- 20 well as has been provided for the public.
- 21 CHAIR WEISENMILLER: Applicant?
- MR. HARRIS: Good morning, Jeff Harris here on
- 23 behalf of the project owner. And on the phone, as well, is
- 24 Brad Heisey, Senior Vice President of Tenaska Capital,
- 25 available to answer any questions.

- 1 I think maybe this is a non-event this morning.
- 2 We have an agreement with staff about appointment of a
- 3 committee. And I think I will just be brief, but don't let
- 4 my brevity be mistaken for lack of importance of this
- 5 matter. It's very important to the company and I'm glad to
- 6 answer any questions. Thank you.
- 7 CHAIR WEISENMILLER: Thanks. Anyone else in the
- 8 room? Public comment?
- 9 Let's turn to the Commissioners.
- 10 COMMISSIONER DOUGLAS: I'll stay with the pattern
- 11 and be brief, as well. I think it's a good time to appoint
- 12 a committee and we should move to handle this matter with
- 13 the speed that we're able to do, while taking a thorough
- 14 look at it.
- 15 CHAIR WEISENMILLER: Great. So, let's have a
- 16 committee with you as the chair, or you're the presiding
- 17 member and Commissioner Scott as the second.
- 18 Motion?
- 19 COMMISSIONER HOCHSCHILD: I move the item.
- 20 COMMISSIONER MC ALLISTER: I'll second.
- 21 CHAIR WEISENMILLER: All those in favor?
- 22 (Ayes)
- 23 CHAIR WEISENMILLER: This passes five to zero.
- 24 Great, thanks.
- MR. HARRIS: Okay, thank you.

| l CHAIR | WEISENMILLER: | Let's o | go on | to | Number | 3. |
|---------|---------------|---------|-------|----|--------|----|
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- MS. MATHEWS: Good morning, Commissioners. I'm
- 3 Alana Mathews, the Public Adviser. And as you all will
- 4 recall, on November 7, 2013, Chair Weisenmiller expressed a
- 5 public commitment to increase the participation of diverse
- 6 business enterprises in the implementation of the EPIC
- 7 Program. Commissioner Janea Scott made a similar
- 8 commitment for the ARFVTP program.
- 9 And in February of 2014 the California Energy
- 10 Commission formed a Diversity Working Group to create a
- 11 Commission-wide approach for this priority and help
- 12 coordinate diversity efforts within our agency.
- On April 8th, 2015, the California Energy
- 14 Commission adopted a resolution outlining its commitment to
- 15 ensure all Californians have an opportunity to participate
- 16 in and benefit from Energy Commission programs that can
- 17 lead to job creation and training, improved air quality,
- 18 and energy efficiency and environmental gains.
- 19 The resolution recognizes that California's
- 20 energy goals can best be met by tapping into the diversity
- 21 of thought, talent and perspective evident in its many
- 22 communities, and to encourage disadvantaged and under-
- 23 represented businesses and communities, including disabled
- 24 veteran, women, LGBT, and minority-owned businesses to
- 25 engage in and benefit from our many programs.

| The | Diversity | working Working | Groui | o meets | monthly | v to |
|-----|-----------|-----------------|-------|---------|---------|------|
|     |           |                 |       |         |         |      |

- 2 develop tools and strategies to enhance the Energy
- 3 Commission's diversity efforts. These tools have included
- 4 a CalEnviroscreen Resource Guide to help quickly identify
- 5 disadvantaged communities, a Diversity Survey template that
- 6 tracks participation of diverse business enterprises,
- 7 training and outreach to disadvantaged communities, and a
- 8 Commitment to Diversity PowerPoint slide which is
- 9 incorporated and presented in our public workshops and
- 10 meetings.
- 11 The Diversity Working Group also works on
- 12 measuring the effectiveness of our diversity outreach
- 13 efforts and helping turn lessons learned into best
- 14 practices.
- 15 Since June 2014, we have tracked our diversity
- 16 activities to establish a baseline. And I am pleased to
- 17 report the following highlights from our diversity efforts.
- 18 Within the Energy Efficiency Division, the Bright Schools
- 19 Program, they have had a contract provide energy
- 20 efficiency, technical assistance reports to local
- 21 educational agencies was awarded to a firm with five
- 22 percent of the subcontractors designated as disabled
- 23 veteran business enterprise.
- 24 Under Prop. 39, of the \$498 million of funds in
- 25 this program, approved to date, \$229 million represents

- 1 approved funding for local educational agencies in the top
- 2 seven counties with the highest use of free or reduced meal
- 3 programs, which is approximately 46 percent.
- 4 Under our Energy Research and Development
- 5 Division, the EPIC Program made 81 awards in 2015, 12 of
- 6 which were located in disadvantaged communities. Numerous
- 7 other awards had project site locations in disadvantaged
- 8 communities, bringing investment and opportunity to all
- 9 regions of the State.
- 10 Staff in this division also held eight public
- 11 workshops throughout the State to solicit feedback on power
- 12 in California communities, and six were located in
- 13 disadvantaged communities.
- 14 Of the over 250 participants of these workshops,
- 15 over 40 were identified as individuals from a small
- 16 business, woman-owned business, minority-owned business,
- 17 disabled veteran-owned business, or LGBT-owned business.
- 18 Staff attended 23 events hosted by small
- 19 businesses, women-owned businesses, minority-owned
- 20 businesses, and disabled veteran and LGBT-owned businesses
- 21 enterprise organizations.
- The Division also launched a Linked-In group page
- 23 titled "The California Energy Commission's Research and
- 24 Development Networking Hub". And this group is open to all
- 25 and currently has 755 members, which is a -- which guides

- 1 and provides our user-to-room platform to help all
- 2 potential applicants, including our diverse business
- 3 enterprises.
- 4 Lastly, staff has also developed a comprehensive
- 5 outreach tool that is being adopted for use in all
- 6 divisions. Among these tools include the funding
- 7 opportunities translated into five languages, a Commitment
- 8 to Diversity PowerPoint slide, which is available and I
- 9 just mentioned, and the Diversity Survey.
- 10 In our Fuels and Transportation Division, the
- 11 Natural Gas Program, Fueling Infrastructure, made 13 awards
- 12 and 11 were located in disadvantaged communities.
- 13 The Hydrogen Program, the Infrastructure
- 14 Operation and Maintenance Grants, made 13 awards. Four
- 15 went to disadvantaged communities.
- 16 And the Fuels and Transportation Division
- 17 sponsored a table at the Disabled American Veteran
- 18 Recruitment, Military and Veterans Career Fair, and
- 19 provided information to over 300 veterans.
- In our Renewable Energy Division, the New Solar
- 21 Homes Program has provided funding, in funds or incentives,
- 22 totaling \$207,000 and \$190,000.
- In our Siting and Transmission, and Environmental
- 24 Division, they identified minority populations for the HECA
- 25 application for certification in the Palmdale petition to

- 1 amend, which resulted in translating eight documents in
- 2 Spanish. That division has also performed 148 Tribal
- 3 consultations on 11 projects from April 2015 through
- 4 December 2015, as well as participated in four Tribal
- 5 Liaison meetings from July to December last year.
- 6 Going forward, the Energy Commission's commitment
- 7 to diversity will now have an expanded goal and perspective
- 8 with the implementation of AB 865 and SB 350.
- 9 Pursuant to AB 865, the Energy Commission will
- 10 continue to develop an outreach plan and strategy to
- 11 increase participation of diverse business enterprises in
- 12 its funding programs, and establish a Diversity Task Force
- 13 to consider and make recommendations about diversity in the
- 14 energy industry.
- The development of the task force will include
- 16 input from energy stakeholders, diverse business enterprise
- 17 representatives, disadvantaged community and environmental
- 18 justice representatives in a very public process.
- 19 Pursuant to SB 350, the California Energy
- 20 Commission, with input from relevant State agencies and the
- 21 public, will prepare a report addressing the following
- 22 three areas. Barriers to opportunities for and access to
- 23 renewable energy by low-income customers, barriers to
- 24 contracting opportunities for local, small businesses in
- 25 disadvantaged communities, and barriers to low-income

- 1 customers to energy efficiency and weatherization
- 2 investments, including those in disadvantaged communities,
- 3 as well as recommendations on how to increase access to
- 4 energy efficiency and weatherization investments to low-
- 5 income customers.
- 6 We will hold a series of public workshops to
- 7 invite and incorporate input from disadvantaged community
- 8 and environmental justice representatives, industry
- 9 stakeholders, and small business owners.
- I am happy to answer any questions.
- 11 CHAIR WEISENMILLER: Thank you for the report.
- 12 And indicate, obviously, this is a high priority for me and
- 13 for all the Commissions. And particularly, now, with the
- 14 new legislation. You know, we have a lot to do in this
- 15 area and, you know, appreciate all the staff and your
- 16 commitment to really move on this.
- But again, I think we just really need to keep
- 18 focused on it. We're certainly going to look forward to
- 19 periodic reports from you on our progress to date.
- 20 COMMISSIONER MC ALLISTER: I want to just
- 21 highlight the statistic about the Prop. 39 Program, and
- 22 it's a big percentage of the overall outflow to the LEAs.
- 23 And that's a key purpose that the Legislature had in mind,
- 24 and the voters, I think, when they passed the initiative in
- 25 the first place that, you know, we would be helping the

- 1 schools that need it most, and those are the ones in
- 2 disadvantaged communities.
- 3 So, that's a \$200 million plus dollars big deal
- 4 and it's going to continue to be a big deal.
- 5 And then on just energy efficiency generally, you
- 6 know, 350, big goals for energy efficiency. Disadvantaged
- 7 communities are where probably the houses that, yeah, I
- 8 think we know, and the homes and businesses that need the
- 9 most work and have the most potential for efficiency
- 10 upgrades exist. And also, the ones that have the least
- 11 available capital to make those improvements.
- 12 And so, in the implementation of the AB 758
- 13 Action Plan, and SB 350, I think we will be working with
- 14 stakeholders and, you know, definitely want your
- 15 participation in that, Alana, and the Public Adviser's
- 16 Office to make sure that we're having the full breadth of
- 17 the conversation we need to direct resources towards the
- 18 buildings that can provide the most benefit to the State,
- 19 but can also do the most, and more broad good for the
- 20 people that live and work in them.
- 21 So, you know, this is a really good initiative.
- 22 I want to thank you for your initiative on making it
- 23 happen.
- 24 COMMISSIONER SCOTT: I'll just underscore what a
- 25 high priority this is for the Energy Commission. And I

- 1 also wanted to thank you for your enthusiasm and your
- 2 leadership in this space. It's been terrific. I think
- 3 we've got a really great start. I think we've got some
- 4 good data, some good statistics, some good meeting
- 5 schedules, you know, in terms of the monthly meetings for
- 6 also taking on our new responsibilities under the Assembly
- 7 Bill.
- 8 And I also just wanted to thank all of our staff,
- 9 who have been working really diligently and hard with you,
- 10 both to help provide the information, but also to think
- 11 through how we include diversity into just kind of like our
- 12 business as usual. And making sure that it gets into
- 13 solicitations, into outreach meetings and sessions. And
- 14 so, I really appreciate all of the work that has gone on to
- 15 help us with this priority for the Commission. So, thank
- 16 you.
- MS. MATHEWS: Thank you.
- 18 COMMISSIONER DOUGLAS: I was just going to add, I
- 19 think on behalf of all of us, we all appreciate your work
- 20 on this, Alana, so thank you.
- 21 CHAIR WEISENMILLER: Let's go onto Item 4,
- 22 which -- or actually, first, let me ask if there's any
- 23 public comments on Item 3.
- Let's go on to Item 4, Jared.
- 25 MR. BABULA: Thank you. This is Jared Babula,

- 1 Staff Counsel.
- 2 Staff seeks approval of an order directing the
- 3 Commission on the implementation of the updated process,
- 4 procedure and siting regulations.
- 5 On September 9th, 2015, the Commission adopted
- 6 updates to its process, procedure and siting regulations
- 7 primarily found in the 1200's and 1700's of Title 20,
- 8 California Code of Regulations.
- 9 On December 21st, 2015, the Office of
- 10 Administrative Law approved the regulations and submitted
- 11 them to the Secretary of State for publication, with an
- 12 effective date of January 1st, 2016.
- 13 This order provides direction to existing
- 14 committees on the implementation of the updated
- 15 regulations. The order confirms that all proceedings are
- 16 subject to the updated regulations, but that already
- 17 completed elements of a proceeding shall not be repeated
- 18 under the updated regulations.
- 19 For example, in the old regulations service of
- 20 documents was performed by the parties, primarily by mail.
- 21 The updated regulations moved service of documents to
- 22 dockets as a feature of the electronic filing system. This
- 23 order clarifies that prior service would not have to be
- 24 repeated by the Docket Unit, but that future service of
- 25 documents would be performed by dockets consistent with the

- 1 new regulations.
- In 2011 and in 2013, the Executive Director
- 3 issued standing orders relating to document filing that
- 4 were necessary to accommodate technological changes of the
- 5 Commission. Portions of these standing orders have now
- 6 been superseded by the updated regulations or updated
- 7 regulatory language, which reformed the filing and service
- 8 procedures to include electronic document management
- 9 technologies.
- 10 This order directs the Executive Director to
- 11 update or repeal, as necessary, the standing orders to
- 12 comport with the updated regulations.
- 13 Finally, as part of the development of the
- 14 regulatory language, the Commission staff committed to
- 15 establishing a docket to receive filings related to
- 16 jurisdictional determinations to ensure transparency. This
- 17 order directs the establishment of a jurisdictional
- 18 determinations docket, which allows the public to sign up
- 19 on a list serve to receive docketed items or notices of
- 20 such items.
- 21 I'm available to answer any questions, thank you.
- 22 CHAIR WEISENMILLER: Thank you. We have one
- 23 public comment on this item. So, I think let's take Jeff
- 24 Harris.
- MR. HARRIS: Good morning, again, thank you.

- 1 Jeff Harris, I'm here on behalf of IEP, the Independent
- 2 Energy Producers Association, a large trade association.
- I have one bit of praise and then some questions
- 4 on another part. So, let's start with the questions,
- 5 first.
- 6 The jurisdictional determination docket, I think
- 7 generally that sounds okay to the IEP's membership. We are
- 8 a little concerned about potential chilling effects. If
- 9 people want to come in and talk to your staff, kind of
- 10 candidly about projects, we're just going to want to make
- 11 sure that things aren't docketed without some understanding
- 12 about those things.
- 13 And there's a sort of a balance there between
- 14 transparency, which I know you all value and insist upon,
- 15 correctly, and then also the ability for someone who's not
- 16 jurisdictional, or not sure if they're jurisdictional, to
- 17 come in and have a candid conversation. And put into the
- 18 public or put into the discussion things that are not
- 19 generally public, already. So, just look for that balance
- 20 is all we're concerned about.
- 21 So, this is the first time I've seen the
- 22 supporting material, so that's just sort of my initial
- 23 reactions. I don't have an opinion from IEP generally
- 24 about that, but I wanted to share those thoughts on that
- 25 one, as well.

- 1 I want to go back to the second item, to existing
- 2 proceedings, this language is something that IEP and others
- 3 requested in the rulemaking. And, really, concerned about
- 4 retroactivity, trying to balance that with the idea that
- 5 the Commission wanted to operate under one set of rules.
- 6 I think this ends up being a pretty good
- 7 compromise in that respect. I'm particularly happy about
- 8 the language that the updated regulations are not intended
- 9 to be applied retroactively.
- 10 We realize this is going to be as much art --
- 11 more art, than science, so it is going to require some
- 12 discretion from the presiding members in these various
- 13 proceedings. But all in all, we really want to thank
- 14 Commissioner Douglas, in particular, and Jared, for working
- 15 to put together, really, with important statement of intent
- 16 for those regulations and giving us the opportunity to
- 17 further memorialize that intent here today.
- And I'll answer any questions and say thank you
- 19 at this point.
- 20 CHAIR WEISENMILLER: Thank you. First, let's
- 21 see, any other public comment?
- Then, let's go to the Commissioners.
- 23 COMMISSIONER DOUGLAS: Well, just briefly, you
- 24 know, I appreciate Mr. Harris's comments. I think he
- 25 highlighted probably the most important, substantive

- 1 statement of intent in the order Jared brought forward.
- 2 Which is that the siting regulations are not meant to be
- 3 applied retroactively. And so, to the extent that under
- 4 the new regulations, that are now in effect, something
- 5 happened, for example an informational hearing might be
- 6 done differently in the future, that doesn't mean we, you
- 7 know, stop everything, go back and redo.
- 8 So, of course, where it comes to art, rather than
- 9 science, that are processes sometimes are not completely
- 10 linear and you find yourself going back because something
- 11 changed in a project, for example, or there's some other
- 12 significant change.
- And so, I think there is going to be a need for
- 14 the committee to take an active role in managing that,
- 15 where there can be some gray area. But I think the concept
- 16 that this is not retroactive and this is meant to be
- 17 forward-looking, as it pertains to existing cases, is a
- 18 really important one to emphasize.
- 19 Beyond that, you know, the order is largely
- 20 procedural and it's important to have in place as we move
- 21 forward and implement the new regulations.
- 22 So with that, I'm sorry, I move approval of this
- 23 item.
- 24 COMMISSIONER SCOTT: Second.
- 25 CHAIR WEISENMILLER: All those in favor?

- 1 (Ayes)
- 2 CHAIR WEISENMILLER: This item passes five to
- 3 zero. Thank you.
- 4 Let's go on to Item 5, general rulemaking
- 5 proceeding for SB 350 and AB 802. Sylvia?
- 6 MS. BENDER: Good morning, Commissioners. I'm
- 7 Sylvia Bender, Deputy Director for the Energy Assessments
- 8 Division, and I'm here with Suzanne Korosec. And we have
- 9 Christine Collopy in the audience, from the Energy
- 10 Efficiency Division.
- And we're here to ask your approval to institute
- 12 a rulemaking proceeding to implement changes in law under
- 13 SB 350 and AB 802.
- In our presentation this morning, we'll be
- 15 summarizing for you the key purpose of the rulemaking, the
- 16 three main sub-proceedings that are envisioned for the
- 17 rulemaking and the overall proceeding structure. And we do
- 18 have a slide presentation that, hopefully, will come along
- 19 to illustrate what we're talking about here. But we'll
- 20 just keep on moving here.
- 21 The purpose of the rulemaking will be to
- 22 consider, develop and implement amendments to the existing
- 23 Commission regulations and guidelines that can support
- 24 California's energy efficiency, renewable energy, and
- 25 greenhouse reduction goals as outlined in those two pieces

- 1 of legislation, SB 350 and 802.
- The rulemaking is envisioned to encompass several
- 3 separate, but related sub-proceedings. Most prominently,
- 4 these three, which we will describe in more detail. Those
- 5 three are integrated resource planning guidelines for
- 6 publicly-owned utilities, Title 20 data collection related
- 7 to demand forecasting, and how to track the doubling of
- 8 energy efficiency through realized energy use reductions.
- 9 And third, changes to the Renewable Portfolio Standard.
- 10 You notice I haven't mentioned energy efficiency
- 11 as a subcomponent here. While energy efficiency is a major
- 12 part of AB 350 -- or SB 350, a separate sub-proceeding for
- 13 energy efficiency is not planned at this moment, but one
- 14 could be added later, if such is necessitated.
- 15 Integrated resource plans. SB 350 envisions
- 16 integrated resource plans as a framework within which to
- 17 see how utilities intend to meet both their resource and
- 18 their greenhouse gas reduction policy goals, to identify
- 19 any physical or operational constraints they may face, and
- 20 to describe their future priorities and choices, both for
- 21 their supply side and customer side resources.
- The legislation defines a set of publicly-owned
- 23 utilities that will be required to file these plans with
- 24 the Energy Commission. And they are those with three-year
- 25 average electrical demand exceeding 700 gigawatt hours.

- 1 This amounts to approximately 16 publicly-owned utilities.
- 2 The plans will be filed at least once every five
- 3 years, starting in 2019. This is two years after the
- 4 investor-owned utilities begin filing theirs at the CPUC.
- 5 And these plans must do several things. Describe how
- 6 greenhouse gas reduction targets will be achieved, how 50
- 7 percent of eligible renewable resources will be procured by
- 8 2030, address the procurement of other preferred resources,
- 9 such as energy efficiency, demand response, storage,
- 10 transportation electrification. And, finally, how each
- 11 will maintain supply reliability and minimize customer bill
- 12 impacts.
- 13 The rulemaking we're proposing will focus on a
- 14 public process in which the Energy Commission will develop
- 15 guidelines for submitting the information, the data and
- 16 reports needed for the Commission's review of these plans,
- 17 and any recommendations we may make to correct deficiencies
- 18 if the plans prove inconsistent with the requirements set
- 19 forward in SB 350.
- So, now we're going to turn to some of the
- 21 changes that AB 802 makes, specifically, for data
- 22 collection. This is the second major component of this
- 23 rulemaking.
- The two bills, together, make several very
- 25 important changes in the Energy Commission's data

- 1 collection authority and data analysis responsibilities. A
- 2 separate rulemaking, to establish regulations for the
- 3 Efficiency Division's AB 802 benchmarking program, is
- 4 already underway. You've approved that.
- 5 This rulemaking, for which we are seeking
- 6 approval today, focuses on three different data
- 7 requirements in AB 802. First, AB 802 establishes
- 8 authority for the Energy Commission to collect individual
- 9 customer usage and billing data. This data will be used in
- 10 studies to improve demand forecasting and to add to our
- 11 knowledge about the role energy efficiency plays in both
- 12 reducing demand and in changing characteristics of that
- 13 demand.
- 14 AB 802 also requires reasonable policies and
- 15 procedures to protect this customer information from
- 16 unauthorized disclosure. This rulemaking will review and
- 17 expand upon our current data confidentiality and security
- 18 provisions.
- 19 And finally, AB 802 requires the Energy
- 20 Commission to consider how changes in existing baselines
- 21 for energy efficiency savings may necessitate adjustments
- 22 to our electricity, natural gas, and transportation energy
- 23 demand forecasts and models to correctly analyze these
- 24 impacts.
- Now, I'm going to turn to the data collection

- 1 changes that SB 350 entails. SB 350 also makes several
- 2 significant changes in the ways the Energy Commission is
- 3 required to track realized energy use reductions from
- 4 energy efficiency over both time and geography.
- 5 First, the Energy Commission is given the lead
- 6 for setting new annual energy efficiency savings targets,
- 7 by November 1st, 2017, that will achieve a doubling of
- 8 statewide energy efficiency savings. These savings targets
- 9 are to be derived from all electricity and natural gas
- 10 retail end uses.
- In a public process, the Commission may consider
- 12 whether a method to aggregate electricity natural gas
- 13 savings into targets may also be useful.
- 14 SB 350 contains very specific changes for how
- 15 impacts of these targets will be measured. We will be
- 16 required to assess the hourly and the seasonal impacts of
- 17 efficiency targets on both statewide and local demand.
- 18 These assessments of overall reduction are to be
- 19 made using normalized, metered electricity and natural gas
- 20 consumption data, where feasible and cost effective. This
- 21 is a major, new undertaking for the Commission.
- Beginning in 2019, each IEPR will provide
- 23 recommendations and an update on the progress that we're
- 24 making towards doubling this energy efficiency, along with
- 25 assessments of impacts on statewide demand, in local

- 1 service territories, and disadvantaged communities and,
- 2 again, from an hourly and seasonal perspective.
- 3 So, with the conclusion of that slide, I'm going
- 4 to turn the presentation over to Suzanne Korosec, Deputy
- 5 for the Renewables Energy Division, who will talk about the
- 6 specific changes to the RPS.
- 7 MS. KOROSEC: Great, thank you. The next slide,
- 8 please.
- 9 So, in addition to the new Integrated Resource
- 10 Plan and data collection requirements in 350, the bill
- 11 codifies Governor Brown's landmark renewable policy goal,
- 12 which was laid out in his January 2015 inaugural address,
- 13 to generate half of the State's electricity from renewable
- 14 resources by 2030.
- 15 So, SB 350 sets new, post-2020 RPS procurement
- 16 targets for all load-serving entities to procure 40 percent
- 17 renewables by the end of 2024, 45 percent by the end of
- 18 2027, and 50 percent by 2030 and thereafter.
- 19 Next, SB 350 revises the conditions for delay of
- 20 timely compliance, which is one of the optional compliance
- 21 measures that can excuse a shortfall in meeting the RPS
- 22 target. The change adds unanticipated increases in retail
- 23 sales due to transportation electrification as one of the
- 24 existing conditions that can allow for a delay of timely
- 25 compliance waiver. The existing conditions also include

- 1 things like unanticipated curtailment or not enough
- 2 transmission capacity.
- 3 SB 350 also specifies that unanticipated
- 4 curtailment only qualifies for a delay of timely compliance
- 5 waiver if the waiver wouldn't result in increased
- 6 greenhouse gas emissions.
- 7 The next slide, please. SB 350 also revises the
- 8 requirements for another optional compliance measure, which
- 9 is cost limitation. This limits what a utility will pay
- 10 for renewable generation in order to avoid excessive rate
- 11 impacts from the RPS.
- 12 The expenditures that are used to determine the
- 13 cost limitation are no longer required to rely on a
- 14 utility's most recent procurement plan or to exclude
- 15 indirect expenses, which are things like imbalance energy
- 16 charges, the costs of transmission upgrades, or costs of
- 17 relicensing utility-owned hydro facilities.
- 18 SB 350 also changes RPS eligibility requirements
- 19 by excluding any municipal solid waste combustion facility
- 20 for being eligible for the RPS, with the exception of
- 21 contracts entered into before January 1, of 2017, for
- 22 generation from a facility located in Stanislaus County
- 23 that was operational before September of 1996. Very
- 24 precise there.
- 25 Finally, on this slide, SB 350 also requires

- 1 load-serving entities to procure more renewables through
- 2 long-term contracts. So that beginning in January of 2021,
- 3 renewable procurement counted towards an LSE's requirement
- 4 for each compliance period must be from contracts or
- 5 ownership agreements of 10 years or longer.
- The next slide, please. Next, SB 350 revises the
- 7 rules for load-serving entities to accumulate and use
- 8 excess renewable procurement from one compliance period for
- 9 a subsequent compliance period. So, starting at the 2021,
- 10 LSE's can now bank their portfolio content category one
- 11 products that are procured under contracts of any length,
- 12 that are in excess of their RPS target, and count that as
- 13 excess procurement. But they cannot count portfolio
- 14 content category two or three as excess procurement.
- Also, SB 350 now allows a publicly-owned utility
- 16 to exclude retail sales that are served by a voluntary
- 17 green pricing program or a shared renewables program from
- 18 their calculation of retail sales for RPS procurement. And
- 19 this changes, actually, retroactive to January 1, of 2014.
- The next slide, please. And finally, SB 350
- 21 creates two procurement exemptions specifically for
- 22 publicly-owned utilities. The first is for POUs that
- 23 procure more than half of their retail sales from
- 24 qualifying large hydro generation in any given year of a
- 25 compliance period.

| 1 This exemption prevents the combination | of large |
|---|----------|

- 2 hydro and the POUs' required renewable procurement from
- 3 being more than the POUs' retail sales during years when
- 4 the hydro years are high.
- 5 The second exemption is for POUs with what is
- 6 called unavoidable long-term coal contracts, or ownership
- 7 agreements with coal plants that are located out of state.
- 8 If the conditions specified in the bill are satisfied, a
- 9 POU can adjust its RPS procurement target for one
- 10 compliance period, the 2021 to 2024 period. So that, like
- 11 the hydro exemption, the combination of renewable
- 12 procurement and the unavoidable coal procurement doesn't
- 13 exceed their retail sales.
- 14 To demonstrate that it's unavoidable, they have
- 15 to show that any cancelation or divestment of the agreement
- 16 would result in significant economic harm to the retail
- 17 customers that cannot be mitigated.
- 18 And I'll turn it back over to Sylvia to finish
- 19 the next slide.
- 20 MS. BENDER: For our final slide. In our final
- 21 slide, we want to just give you a brief summary of the
- 22 overall proceeding structure that is proposed here.
- 23 Because the content of this rulemaking is quite
- 24 broad and impacts multiple policy areas, a committee is not
- 25 proposed to be appointed to preside over the rulemaking at

- 1 the outset, but could be in the future.
- 2 Commission staff will, instead, be responsible
- 3 for taking the appropriate actions with policy guidance
- 4 from the Chair and the relevant lead Commissioners in the
- 5 specific subject areas.
- 6 The overall proceeding will be divided into three
- 7 sub-proceedings, as we have described here, each with its
- 8 own docket. Additional sub-proceedings may be added, as
- 9 necessary, as we move through the proceeding.
- 10 Collaboration with CPUC NARB staff will be
- 11 continued throughout the rulemaking.
- Scoping workshops will be held, as necessary, in
- 13 each of these sub-proceedings. But the sub-proceedings,
- 14 themselves, may move ahead on different schedules. As you
- 15 can see, some may be more precise in terms of what they're
- 16 required to do, than others.
- 17 Finally, we anticipate that there will be a great
- 18 deal of stakeholder interest in this rulemaking and we
- 19 encourage very active public participation as we move
- 20 forward in 2016.
- 21 So with that, we ask for your approval to open
- 22 this rulemaking, and answer any questions you may have.
- 23 CHAIR WEISENMILLER: Great. First, any public
- 24 comment? None on the line.
- So, Commissioners.

| 1  | COMMISSIONER HOCHSCHILD: I would move the item.             |
|----|---|
| 2  | COMMISSIONER MC ALLISTER: You know, I think,                |
| 3  | when your blood gets pumping for opening a rulemaking on    |
| 4  | these topics, so I'm just going to cop to that, I guess.    |
| 5  | (Laughter)  |
| 6  | COMMISSIONER MC ALLISTER: But in particular, you            |
| 7  | know, there's a lot of reasons why this is groundbreaking   |
| 8  | and I think has huge implications for our climate and       |
| 9  | energy policy going forward. Obviously, SB 350, a big, big  |
| 10 | deal, we all know that.                                     |
| 11 | But dividing it up and really drilling into the             |
| 12 | concrete issues that are needed to implement is a           |
| 13 | necessary, I think, critical step. I really have a lot of   |
| 14 | faith in the staff that's guiding this, across the          |
| 15 | divisions that are involved.                                |
| 16 | I also wanted to say that the fact that there's             |
| 17 | not sort of a substantive, specific, energy-efficiency sub- |
| 18 | proceeding at this moment is, as Sylvia I think implied and |
| 19 | explained, is by no by no means means that it's not at      |
| 20 | the highest priority level. Because we have so much going   |
| 21 | on, on energy efficiency that, really, this is more of      |
| 22 | foundational work to guide, to inform, to make sure that we |
| 23 | have the right data and the right tools to be able to       |
| 24 | really exploit the energy-efficiency opportunities to their |
| 25 |   |

fullest extent. And we all know that there are many, many

25

- 1 opportunities and they're critical ones to keep our grid
- 2 planning moving forward in the right direction, to make
- 3 sure we harvest all of the efficiency we can.
- 4 So, particularly on the data front, you know,
- 5 it's 2016, we're in California, we've got Silicon Valley,
- 6 we have the biggest companies that are doing the most big
- 7 data work. We have expertise in this State. And we need
- 8 to bring it to bear on these problems of energy and
- 9 environment.
- 10 And that's really been -- it's a big focus of
- 11 mine. I think there's, you know, so much outside to
- 12 bringing the foundational data tools and analytics to the
- 13 way we establish policy and monitor our progress going
- 14 forward. And this is a great opportunity the Legislature
- 15 has given us, and direction they've given us to move in
- 16 that direction, and it's all rubber-hits-the-road with
- 17 these proceedings that are on this item. And in the 802
- 18 workshop or the proceeding that we've already got going.
- 19 So, thanks, Sylvia, Suzanne, Christine, and all
- 20 of your staffs for pushing forward on this. And the other
- 21 Commissioners, I think, for seeing all the value in this,
- 22 as well. The Chair, certainly, has provided a lot of
- 23 leadership on this. And I'm very excited to get moving.
- 24 COMMISSIONER HOCHSCHILD: I would concur with
- 25 Commissioner McAllister. And just would add, other states

- 1 are looking not just at the policy, but on our approach to
- 2 implementation of it. On the renewables side, New York has
- 3 followed suit, now, doing 50 percent renewables by 2030.
- 4 Oregon just introduced a similar proposal, and other
- 5 states. So, there's a lot of eyes on us from around the
- 6 country.
- 7 And so with that, I'd move the item unless
- 8 there's other comments.
- 9 COMMISSIONER MC ALLISTER: I'll second.
- 10 CHAIR WEISENMILLER: All those in favor?
- 11 (Ayes)
- 12 CHAIR WEISENMILLER: The item passes five to
- 13 zero. Thank you.
- 14 COMMISSIONER MC ALLISTER: Thanks.
- 15 CHAIR WEISENMILLER: Let's go on to Item 6, Order
- 16 Instituting Rulemaking Procedure. Kristen Driskell,
- 17 please.
- MS. DRISKELL: Good morning, Chair and
- 19 Commissioners. I am Kristen Driskell, and I am the
- 20 Supervisor of the Appliance Efficiency Program in the
- 21 Efficiency Division.
- I am here, today, to request your approval of an
- 23 Order Instituting Rulemaking, or OIR, to update the
- 24 Appliance Efficiency Regulations.
- The OIR would focus on five tasks. One, updating

- 1 the appliance standards, test procedures definitions and
- 2 certification requirements as a result of changes in the
- 3 Federal Appliance Standards.
- 4 Two, ensure consistency with the Title 24
- 5 California Building Energy Efficiency Code.
- 6 Three, remove certain references or certification
- 7 requirements that were made obsolete due to changes in law
- 8 or technology.
- 9 Four, updating Section 1606, our reporting
- 10 requirements, to harmonize with the improvements made in
- 11 certification as a result of the modernized Appliance
- 12 Efficiency Database System, which launched earlier, or late
- 13 last year.
- 14 And five, removing battery charger subsystems
- 15 from the scope of the battery charger standards, where a
- 16 battery charger subsystem is contained completely within
- 17 the larger product and is not capable of operating normal
- 18 operation of the parent product when the power is removed.
- 19 We may also make other minor clarifying changes
- 20 to improve the readability and functionality of the
- 21 Appliance Efficiency Regulations.
- This rulemaking would not make changes that
- 23 affect the underlying Appliance Efficiency Standards
- 24 except, of course, where those changes are designed to
- 25 comply with the Federal Appliance Standards, or conform.

- 1 We anticipate releasing a Notice of Proposed
- 2 Action this summer, with potential adoption in early fall.
- 3 Thank you for your consideration of this item.
- 4 I'm happy to answer any questions that you may have.
- 5 CHAIR WEISENMILLER: Great. First, any public
- 6 comment in the room or on the line?
- 7 Let's go to Commissioner discussions.
- 8 COMMISSIONER MC ALLISTER: So, thanks, Kristen.
- 9 I mean this is for the most part, as Kristen said, sort of
- 10 housekeeping, and cleanup, and doing some things that are
- 11 needed to keep the trains running on time and conformance
- 12 with Federal Standards is kind of one of the things we have
- 13 to keep an eye on. And, when it's needed, we have to do
- 14 it. So, these are very straight forward.
- So, I'll move this item.
- 16 COMMISSIONER SCOTT: Second.
- 17 CHAIR WEISENMILLER: All those in favor?
- 18 (Ayes)
- 19 CHAIR WEISENMILLER: This item also passes five
- 20 to zero.
- Okay, Item 7 is held.
- So, we'll go on to Item 8, Agreement Streamlining
- 23 Update. Rachel Grant Kiley, please.
- 24 MS. GRANT KILEY: Good morning, Chair and
- 25 Commissioners. My name is Rachel Grant Kiley. I'm the

- 1 Manager of -- I have a very strong voice, sorry. I'm the
- 2 Manager of the Contracts, Grants and Loans Office, here at
- 3 the Energy Commission. And today, I'm here to speak to you
- 4 about the Agreement Streamlining activities and
- 5 accomplishments from 2015.
- 6 The next slide, please. Recognizing the need to
- 7 streamline our funding solicitation selection, agreement
- 8 and management processes, we established the Agreement
- 9 Streamlining Team in 2012. The purpose of the team was to
- 10 allow for quicker changes to agreements, which benefits our
- 11 contractors and recipients, who will not have unnecessary
- 12 delays, as well as staff, who will be able to spend less
- 13 time making these changes.
- 14 The tasks of the team also include decreasing the
- 15 number of items on Energy Commission Business meetings, so
- 16 that the focus of the Commissioners can be on policy
- 17 decisions and less on the day-to-day management of
- 18 agreement changes.
- 19 This was accomplished with the December 2013
- 20 resolution, delegating changes to the Executive Director.
- 21 The Agreement Streamlining Team has continued meeting in
- 22 different capacities for a couple of years, now. But 2015
- 23 proved to be a very productive year for improvements to our
- 24 processes and procedures.
- The next slide. The Agreement Streamlining Team

- 1 here was originally convened for the Energy Commission's
- 2 Lean 6-Sigma Greenbelt Project. The team currently
- 3 consists of at least the following individuals. First,
- 4 myself, as the representative from the Administrative
- 5 Services Division. Next, Allan Ward from the Chief
- 6 Counsel's Office. Then, program representatives from the
- 7 two programs that have the most agreements here, at the
- 8 Energy Commission, which is John Butler and Kyle Emigh,
- 9 from the Fuels and Transportation Division. And Virginia
- 10 Lew and Alicia Gutierrez from the Research and Development
- 11 Division.
- 12 And then, we've had a lot of support from Drew
- 13 Bowen, Mark Hutchison, Laurie ten Hope, and the existing
- 14 Randy Roesser.
- The next slide. One of the biggest
- 16 accomplishments in 2015 was the finalization of new budget
- 17 templates for use in our contracts and grants. These new
- 18 templates were created in an effort to make the budgets
- 19 easier for our applicants to complete during the
- 20 solicitation phase. The changes will allow for more
- 21 flexibility, which decreases the number of formal changes
- 22 that must be processed and, therefore, brought to a
- 23 Business meeting. And overall, the new templates will be
- 24 easier for awardees and Energy Commission staff. They will
- 25 save time for all parties and reduce errors.

| 1 | Another | large     | accomplishment | was | the  | develo                             | opment |
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- 2 of new invoice templates. These templates are simplified.
- 3 They have fewer pages, from 24 down to 2, which is huge,
- 4 especially from the applicant's perspective. And they're
- 5 easier and less tedious for our contractors and recipients
- 6 to complete.
- 7 These new templates will streamline the invoice
- 8 review process and will allow for more consistency for our
- 9 contractors and recipients. This consistency, as well as
- 10 the fewer pages, will allow for quicker internal review and
- 11 the payment of invoices.
- 12 The next slide. An additional accomplishment was
- 13 simply improved planning. The Annual Solicitation Master
- 14 Plans for each program area will allow for better planning
- 15 and coordination of the Contracts, Grants and Loan's Office
- 16 resources to ensure documents and solicitations move
- 17 through the process quickly and efficiently.
- 18 Agreements and solicitations are now better
- 19 staggered throughout the entire fiscal year, resulting in
- 20 fewer agreements pressing for a June 2016 encumbrance.
- 21 This year, ARFVPT, the Alternatives and
- 22 Renewables and Fuels and Vehicle Technology Program -- why
- 23 I can say that better, I don't know -- will have very few
- 24 agreements pressed up against the June deadline. And EPIC
- 25 is well on its way to meeting this in 2017.

| 1 | The | next | slide. | Other | agreement | streamlining |
|---|-----|------|--------|-------|-----------|--------------|
|   |     |      |        |       |           |              |

- 2 efforts include improved and expanded training, and a new
- 3 process for audit finding resolutions. We added more
- 4 modules, in addition to the standard Commission Agreement
- 5 Manager training, and included, and added a solicitation-
- 6 specific training, invoice training, and training on
- 7 budgets.
- 8 We also increased the frequency of our main CAM
- 9 training course, which is now offered quarterly, instead of
- 10 just annually.
- 11 The new process for audit finding resolutions was
- 12 recently developed to complement the efforts by the Energy
- 13 Commission's Audits, Investigations and Program Review
- 14 Unit. This process addresses what to do after an audit
- 15 finding has been made, and outlines clear expectations with
- 16 roles and responsibilities for staff, from the various
- 17 offices that need to be involved.
- 18 The next slide. Then, there's the new process
- 19 for large equipment purchases, which is a result of some
- 20 recent issues we've had with a couple of awardees. We
- 21 recognized a need for standard practices for additional
- 22 follow up and verification requirements. These processes
- 23 will help agreement managers and officers recognize
- 24 problems earlier. The process outlines roles and
- 25 responsibilities for follow up and verification, as well as

- 1 a team approach for addressing these problems.
- The next slide. In an effort to continue our 2
- 3 streamlining efforts, we recently sent out a Solicitation
- 4 Process Survey to get input from Energy Commission
- stakeholders on items of our solicitation process that need 5
- 6 to be addressed in the future.
- 7 So far, we have received 121 responses.
- 8 responses from this survey will be used to focus our
- 9 attention on key areas to address in 2016.
- 10 One specific question asked the respondents if
- 11 they had ever chosen not to apply to an Energy Commission
- 12 solicitation that fit their subject area and, if so, why?
- 13 Of the 102 responses that we got to this
- 14 question, nearly 30 identified that they would not have had
- 15 enough time to respond. And an additional 30 identified a
- 16 concern for the complexity of our response requirements.
- 17 Additional surveys are anticipated to be drafted
- 18 on other topic areas.
- 19 The next slide. Probably the biggest
- 20 accomplishment and definitely the most noteworthy is the
- 21 Grant Solicitation System. This web-based system allows
- 22 for electronic submittal of grant applications. A system
- 23 for electronic applications has been requested by many
- 24 different stakeholders over the last few years.
- 25 The system that we have developed is very similar

- 1 to the Energy Commission's e-Filing System, and it was
- 2 developed and implemented in a very short time frame,
- 3 thanks to our IT Department. This similarity to e-Filing
- 4 and the limited number of screens and options makes the
- 5 system very easy to navigate.
- 6 The next slide. The system should prove to be
- 7 easier for applicants than the previous hard-copy submittal
- 8 requirements. It will reduce the number of late and
- 9 rejected applications due to various delivery problems and
- 10 it eliminates hard copies, which is a significant step in
- 11 saving paper. Although we will still have to print a copy
- 12 or two here, it will still be far fewer than the five to
- 13 seven copies required in the past. Assuming around 300
- 14 pages per application, at five copies, and 10 to 30
- 15 applicants, even double-sided this is thousands of pieces
- 16 of paper per solicitation.
- 17 The system will also eliminate delivery expenses
- 18 for applicants which, in addition to the printing costs,
- 19 significantly reduces the cost for developing an
- 20 application to one of our solicitations. The reduction in
- 21 cost, as well as the move into the electronic age, should
- 22 make our solicitations more appealing for small businesses,
- 23 as well as businesses from disadvantaged communities.
- 24 The next slide. The first run of the Grant
- 25 Solicitation System was per GFO-15-306, the Regional Energy

- 1 Innovation Clusters from the EPIC Program. Twelve
- 2 applications were received electronically for the
- 3 solicitation and zero were submitted in hard copy, even
- 4 though the option was still available.
- 5 Only one applicant contacted us with uploading
- 6 issues. And after the run, only minor issues have been
- 7 identified by Commission staff that were using the system
- 8 from this end. After these issues are addressed, we expect
- 9 to roll out the electronic submittal process to all grant
- 10 solicitations early this year.
- 11 The next slide. So, this is just going to be a
- 12 quick walk through of the system, itself, from the
- 13 applicant's perspective. Is it not playing?
- 14 All right, improvisation. I can either pull the
- 15 system up or we can skip this. It's really easy. If
- 16 you're familiar with the e-Filing System, it's the same
- 17 basic setup. It's a three-step process. They enter their
- 18 basic information. They register for the system so that
- 19 they can use it going forward in the future.
- That's not it. That's okay. Do you want me to
- 21 pull up the system?
- 22 CHAIR WEISENMILLER: No, that's okay.
- MS. DRISKELL: That's okay. If you guys want to
- 24 walk through it at another time, it's very easy. And you
- 25 can try it on your own, honestly.

- 1 But the system is an uploading system and not a
- 2 fill-out-the-form system. So, instead of going through and
- 3 filling out questions to answers, or something along those
- 4 lines, they fill out their documents separate from the
- 5 system and then they upload them to the system, and that's
- 6 their submission of their application.
- 7 So, we'll move on to this slide. That's okay.
- 8 Go on to the colored slide. There you go.
- 9 So, in 2014, I participated in the Lean 6-Sigma
- 10 Greenbelt Training Program, with the Governor's Office of
- 11 Planning and Research, along with 14 other departments and
- 12 agencies. We all gave our presentations at the State
- 13 Capitol, in the summer of 2014.
- 14 The goal of our particular project was to reduce
- 15 the processing time of our grant agreements such that 95
- 16 percent of our grants are awarded in less than 12 months.
- 17 One of the biggest achievements of this project was the
- 18 identification of expectations for each step in the
- 19 process, which is what this is. It breaks up the 12-month
- 20 process into each component of the agreement process.
- The next slide. This chart shows how we are
- 22 doing in several of the agreement processing steps. The
- 23 blue lines are where we were before the Lean 6-Sigma
- 24 Program and the red lines are our expectations that were
- 25 set as a result of the Lean 6-Sigma Project. The green

- 1 lines are how we did in 2015.
- 2 The biggest improvement is step six, agreement
- 3 drafting. Although we are not meeting our expectation of
- 4 one and a half months, we have dropped the average drafting
- 5 time down from nearly four and a half months to under two
- 6 and a half months.
- 7 Another notable processing step is step five,
- 8 proposal evaluations, which has dropped from an average of
- 9 over two and a half months to down to just over one and a
- 10 half months, which is also under our expected time frame.
- 11 This chart shows improvements in most steps,
- 12 except signatures, which is really out of our hands because
- 13 that's when the applicant has it. And, as well as the time
- 14 when the solicitation is posted, which has actually
- 15 increased. And this is due to various factors, and we do
- 16 this as a courtesy to our applicants as issues arise during
- 17 the solicitation phase.
- One of the things that the Agreement Streamlining
- 19 Team will assess this upcoming year is whether some of our
- 20 expectations should be adjusted based on the outcomes of
- 21 this year.
- The next slide. Finally, although we have made
- 23 great progress this year, we are not stopping. It is very
- 24 clear to Energy Commission management that the Streamlining
- 25 Team is working. In 2016, we'll push for even more.

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- 2 active Commission Agreement Managers and Officers. We will
- 3 continue to update the Agreement Manual and training
- 4 modules to further detail all roles and responsibilities
- 5 for all individuals involved in the agreement process, not
- 6 just the CAMs.
- 7 These updates will also include further clarity
- 8 on making various changes to agreements, including what
- 9 levels of approvals are required for each. We will also
- 10 seek other updates or modifications per the findings of our
- 11 Solicitation Survey and any other future surveys.
- 12 With that, I am happy to answer any questions you
- 13 may have. And as always, we are happy to include any
- 14 Commissioners' concerns or comments in any future update.
- 15 CHAIR WEISENMILLER: Great, thanks. I quess we
- 16 have one public comment on this. Nehemiah, go ahead.
- MR. STONE: Nehemiah Stone, with the Stone Energy
- 18 Associates. I want to thank you very much for doing this.
- 19 I've worked at the Commission before, I worked for two
- 20 Commissioners, and both times both Commissioners asked me
- 21 to work on this issue. Not much got done. And this is the
- 22 first significant improvement and I want to thank you very
- 23 much for doing it.
- 24 Secondly, the California Energy Efficiency
- 25 Industry Council met with Rachel, and Allan, and Laurie,

- 1 and Virginia, in 2014, and made a number of
- 2 recommendations. None of which I actually see were
- 3 accomplished here. And I would like to offer that the
- 4 CEEIC would like to work with you to help streamline the
- 5 process, so it works better for the consultants that give
- 6 you the work that you're looking for.
- 7 One of the activities or one of the things that
- 8 the CEEIC was looking for was a critical look at what
- 9 information you actually need from consultants in order to
- 10 do your public duty of making sure that you're using public
- 11 funds correctly. That, to us, is a critical element. We
- 12 don't like having to give information that is not that
- 13 useful. It's interesting to Commission staff, but it
- 14 doesn't really change whether you get good product out of
- 15 consultants. So, that's one area I'd like to see worked on
- 16 a little bit more.
- 17 And again, the CEEIC offered and still offers to
- 18 help you with that process.
- 19 CHAIR WEISENMILLER: Well, certainly, thanks for
- 20 being here. I think, again, I also -- sort of one of the
- 21 things that amazed me when I came was the sort of process
- 22 problems on contracts. So, basically, we really want to
- 23 applaud the staff's movement. Obviously, we're not where
- 24 we need to be. But, you know, basically, these are good
- 25 steps. We need to do more.

| 1 | COMMISSIONER | HOCHSCHILD: | If I | could | just | chime |
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- 2 in as well, to add to the Chair's comments. I know earlier
- 3 Commissioner McAllister said he really got his heart
- 4 beating with the new rulemaking. And I've got to tell you,
- 5 this kind of barrier-busting gets my heart beating. And
- 6 so, Rachel, I really want to thank you and congratulate
- 7 you.
- Because, as we're modernizing the State's energy
- 9 generation fleet, and our energy efficiency measures, we
- 10 need to do the exact same thing with our processes. And to
- 11 always be mindful of -- put yourself in the shoes of a
- 12 California entrepreneur, who has a good idea, maybe running
- 13 a business, doesn't have enough funds to hire a
- 14 professional grant writer. And the difference between a
- 15 really lengthy, difficult, protracted application process
- 16 and an efficient, timely one can be the difference whether
- 17 they choose to apply or not.
- 18 Part of my interest, and I think all of us on the
- 19 Commission share this, of really making sure we're not just
- 20 getting the usual suspects, but getting -- casting as broad
- 21 a net around the State as we possibly can. This kind of
- 22 barrier-busting is totally instrumental of that.
- 23 And I would welcome, actually, an annual update
- 24 or periodic updates on the progress, and this kind of
- 25 thing, as we go forward.

- 1 We tried to do the same thing in our
- 2 certification of all of the renewable projects and I am
- 3 just very encouraged to see this progress. So, thank you.
- 4 COMMISSIONER SCOTT: Yeah, I would just add to
- 5 that. I know how much time the contracting staff and
- 6 especially the Fuels and Transportation Team spend on the
- 7 contracts, the invoices, all of that. And so, anything I
- 8 think that we can put in place that helps streamline that,
- 9 make that more efficient and effective, I think is really
- 10 important.
- 11 So, I appreciate you all taking the time, the
- 12 thought, the care to really dig in and start getting this
- 13 moving. I think this is great for everyone and I
- 14 appreciate your leadership there.
- You know, and as the public member, I'll echo
- 16 some of what Commissioner Hochschild just said, in terms of
- 17 making the process easier for a broader set of interested
- 18 folks to apply, and be able to join in on the Commission's
- 19 programs I think is really important. So, I appreciate the
- 20 effort there.
- 21 And also, would warmly welcome additional updates
- 22 as you guys continue to make progress, but thank you very
- 23 much.
- 24 COMMISSIONER HOCHSCHILD: I would make -- oh,
- 25 it's informational only and I don't need to.

| 1 | CHAIR | WEISENMILLER: | Again, | thanks. |
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- 2 Let's go on to Item 9, EnergyPro 7 2016
- 3 Residential Compliance Software.
- 4 MR. FROESS: Good morning, Chair and
- 5 Commissioners. My name is Larry Froess and I'm a Senior
- 6 Mechanical Engineer in the Building Standards Office, and
- 7 Project Manager of the Private Vendor Software Approvals.
- 8 I'm here to ask for approval of EnergySoft's
- 9 EnergyPro Version 7.0 software as an alternative
- 10 calculation method for showing compliance with the 2016
- 11 residential standards for newly constructed low-rise
- 12 residential buildings, additions, and alternations to
- 13 existing homes.
- 14 I'm also seeking your approval of the resolution
- 15 you have before you on this item.
- 16 EnergyPro Version 7.0 has met the approval
- 17 requirements, as outlined in the 2016 Residential ACM
- 18 Reference Manual that was approved on November 12th, 2015,
- 19 which includes the 2016 updates to TDV values, opaque
- 20 surface and window values, duct installation values, NHVAC
- 21 and domestic hot water heating equipment efficiency
- 22 requirements.
- 23 By approving EnergyPro 7.0, the building industry
- 24 will have another choice of software to demonstrate
- 25 compliance with the 2016 standards before the effective

- 1 date of January 1st, 2017.
- 2 I'm available to answer any questions you may
- 3 have.
- 4 CHAIR WEISENMILLER: Great, thank you.
- 5 Any public comment?
- 6 All right, Commissioners?
- 7 COMMISSIONER MC ALLISTER: So, I just want to put
- 8 a little context, thanks Larry, a little context here. So,
- 9 historically, I think we've struggled a little bit to get
- 10 everything done very much ahead of time for updates for our
- 11 new building standards. And I think, you know, the fact
- 12 that we're very much ahead of the game for 2016 and kind of
- 13 have shown the world that sort of there's a process that's
- 14 working, and we're getting to the end points, we're
- 15 approving things more than a year ahead of time. And then,
- 16 that enables us to engage with the service providers that
- 17 support the implementation of the code, that the trains are
- 18 really running nicely on time, now, and that's terrific.
- 19 It's a real testament to the effort that staff has put into
- 20 this.
- 21 So, you know, I think that's very important. Now
- 22 that we're sort of really rigorously in line with the
- 23 Building Standards Commission, and the three-year cycle,
- 24 and we're really trying to make sure that early on we dot
- 25 our I's and get our T's crossed, and get everything to the

- 1 Commission that needs to come to us, it sends a great
- 2 message of efficiency. And just like sort of what we
- 3 talked about in the last item. And it is important for the
- 4 Building Standards Commission and all of our agency
- 5 partners, as well, to keep in line with what they're doing
- 6 and send the message to the industry stakeholders and
- 7 marketplace that this happening, and that's just the way
- 8 things are.
- 9 So, this is an example of the marketplace able to
- 10 engage with us very early on, so way ahead of the effective
- 11 date of the new standards everything is in place. So, I
- 12 want to thank EnergyPro for getting on board, and moving
- 13 forward, and for staff for helping them do that.
- 14 So with that, I'll -- let's see, this is Item 9.
- 15 Yeah, I'll move Item 9.
- 16 COMMISSIONER SCOTT: Second.
- 17 CHAIR WEISENMILLER: All those in favor?
- 18 (Ayes)
- 19 CHAIR WEISENMILLER: Item 9 passes five to zero.
- Thank you.
- 21 Let's go on to Item Number 10, Mechanical
- 22 Acceptance Test Technician Certification Provider
- 23 Application from the National Environmental Balancing
- 24 Bureau. Joe.
- MR. LOYER: Good morning, Chair and

- 1 Commissioners. I'm Joe Loyer, from the California Energy
- 2 Commission, Senior Mechanical Engineer.
- I'm here to present, for your consideration, the
- 4 National Environmental Balancing Bureau, or NEBB
- 5 application to be approved as a nonresidential mechanical
- 6 acceptance test technician certification provider, or
- 7 ATTCP.
- 8 A mechanical acceptance test is a set of
- 9 functional tests that ensures nonresidential mechanical
- 10 systems work as designed after they are installed.
- 11 The Energy Commission's 2005 standards, Building
- 12 Energy Efficiency Standards, adopted requirements that
- 13 nonresidential mechanical installers perform acceptance
- 14 testing on newly-installed mechanical systems to help
- 15 ensure these systems perform as intended.
- The 2013 standards established new requirements
- 17 to ensure technicians receive training and certification to
- 18 perform acceptance testing. These new standards allow
- 19 organizations to apply to the Energy Commission to become
- 20 an ATTCP.
- 21 The applicant seeking approval as an ATTCP must
- 22 submit a complete application to the Energy Commission for
- 23 staff review and validation, and determine compliance with
- 24 all requirements in the California Code of Regulations,
- 25 Title 24 Part 1, Section 10-103-B(c).

| 1 | On | June | 17th, | 2015, | NEBB | submitted | its |
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- 2 application for approval as a mechanical ATTCP. Energy
- 3 Commission staff, working with the applicant, completed
- 4 review and validation of the NEBB application and
- 5 determined the application meets the requirements.
- 6 Staff recommends four conditions of approval for
- 7 the NEBB application to ensure proper initial
- 8 implementation and ongoing monitoring of the proposed NEBB
- 9 program.
- 10 Under the first condition of approval, NEBB shall
- 11 demonstrate its proposed registry is operational to the
- 12 satisfaction of Energy Commission staff not more than 90
- 13 days following the Energy Commission's approval of NEBB as
- 14 an ATTCP.
- 15 Under the next two conditions of approval, NEBB
- 16 shall demonstrate within 90 days that they have agreements
- in place to provide the necessary laboratory facilities,
- 18 and that these facilities are adequate to perform all of
- 19 the training and testing required under Section 10-103-
- 20 B(c)(3a).
- 21 Under the last condition of approval NEBB shall,
- 22 on an ongoing basis, verify it continues to have sufficient
- 23 laboratory facilities to complete the required training and
- 24 testing.
- 25 Energy Commission staff has documented their

- 1 review and findings in the staff report, which was posted
- 2 on the website and made available for public comment on
- 3 December 21st, 2015.
- 4 With the approval of the NEBB application, the
- 5 Energy Commission can consider the decision to make
- 6 certification mandatory for all technicians performing
- 7 acceptance testing on newly installed mechanical systems in
- 8 nonresidential buildings.
- 9 The minimum requirements for this decision are
- 10 that there are a minimum of 300 certified technicians for
- 11 all acceptance tests, that all qualified technicians have
- 12 access to certification training. Additionally, the Energy
- 13 Commission is concerned about the distribution of available
- 14 certified technicians by county, throughout California.
- 15 Staff has scheduled a workshop on February 29th,
- 16 2016, which is open to the public, to discuss the
- 17 requirements for the Energy Commission decision to make
- 18 certification mandatory for all technicians performing the
- 19 acceptance testing on newly installed mechanical systems in
- 20 nonresidential buildings.
- 21 Staff requests the Commission confirm the
- 22 Executive Director's findings, adopt his recommendation and
- 23 approve NEBB as a mechanical ATTCP to administer the
- 24 program described in its application, subject to the four
- 25 conditions of approval.

- 1 Thank you for your consideration and I am
- 2 available to answer any questions.
- 3 CHAIR WEISENMILLER: Great, thanks.
- 4 Let's go to public comment. Let's start with
- 5 NEBB and your comments.
- 6 MR. HUBER: Good morning, Commissioners. My name
- 7 is Jim Humber, I'm the immediate past president of NEBB. I
- 8 am currently a member of the board of directors. I have
- 9 with me Ms. Amber Ryman, who is also currently one of our
- 10 directors.
- 11 NEBB has been involved in this for 45 years.
- 12 We've been certifying firms, individuals, companies from
- 13 single-person shops to multiple hundreds of people working
- 14 for them. So, we are experienced in implementing a program
- 15 like this the way it needs to be done.
- 16 I've been involved in this industry for 31
- 17 years. I hold multiple certifications, from multiple
- 18 organizations. I can tell you that one of the reasons that
- 19 I'm a believer in NEBB is because NEBB is the only
- 20 organization that ever made me really prove that I knew
- 21 what I was doing.
- 22 And that would be our approach to what you are
- 23 doing with Title 24. We have a very aggressive approach
- 24 that we've taken to making sure that our people are
- 25 training, that they can prove that they've done the work,

- 1 and then the compliance portion of it, which is very
- 2 important for Title 24 to be effective.
- NEBB is probably the only organization I know of,
- 4 in 2015 we de-certified 28 of our firms because they were
- 5 not complying with our requirements. No other organization
- 6 can make that claim.
- 7 So, when we look at the Title 24 program, the way
- 8 we've proposed to implement it on behalf of California, in
- 9 conjunction with ESCO, and with North American Training
- 10 Centers, and Brownson University, you know, it seems like a
- 11 very good fit because it allows you to let the small firms
- 12 continue to do business, specialize in what it is that they
- 13 do. It allows the large firms to still do what they do.
- 14 And I think our modular approach that we've taken is
- 15 actually the most effective way for you to spread this
- 16 throughout California.
- 17 And I'm open for questions.
- 18 CHAIR WEISENMILLER: Thank you. Ms. Ryman, do
- 19 you have comments?
- 20 MS. RYMAN: I am here for questions, as well.
- 21 And, no, I do not. Thank you.
- CHAIR WEISENMILLER: Okay, great.
- 23 So, let's go to -- we have two public comments in
- 24 the room. First, the Sheet Metal Workers.
- 25 MR. DIAS: Good morning, Commissioners. I'm

- 1 David Dias. I'm representing the Sheet Metal Workers,
- 2 Local 104, here in California.
- I don't have an issue at all with NEBB making
- 4 applications. What I have an issue with is some of the way
- 5 it's done, the modular approach, or whatever you want to
- 6 call it. The way it's written, that I see, is that if you
- 7 pass one of the acceptance testing you're an acceptance
- 8 tested -- or an acceptance testing technician.
- 9 Where NEMIC, when they did their application, had
- 10 to do all 18.
- 11 So, basically, what you're doing is you're
- 12 favoring one over the other. NEMIC had to do all 18, and
- 13 every technician that we have done and trained through
- 14 Sheet Metal Workers has done all 18, not just one. So, our
- 15 guys can say they're an acceptance testing technician, but
- 16 they've done all 18.
- If you have to only do one is that the same? Is
- 18 that fair?
- 19 I'm a person that sits on the -- I'm a Board
- 20 Member of the Contractor State License Board. I know you
- 21 cannot be favored, over one over another. I sit on the
- 22 Board and I've been there for six years, now, so I know
- 23 that.
- 24 So, I have an issue with this. I can't see this
- 25 happening unless you play apples to apples. If you're

- 1 going to pass this, you would have to let NEMIC's
- 2 application change to where they could actually do the same
- 3 thing.
- 4 And from what I understand by NEMIC, because I
- 5 just was in contact with them, they are not allowed to do
- 6 that. So, I don't understand how that can be fair. And
- 7 tell me I'm wrong?
- 8 CHAIR WEISENMILLER: No, actually, we'll actually
- 9 ask the staff to comment on your question and, obviously,
- 10 ask the applicant, too.
- 11 MR. LOYER: Okay, Joe Loyer, Energy Commission.
- 12 there are several issues with the problem that you're
- 13 bringing up. First and foremost, you know, it is true that
- 14 NEMIC requires you to pass all 17 tests. And NEBB, you
- 15 could possibly submit your application and only pass only
- 16 one test and declare yourself an acceptance test -- an ATT.
- 17 However, you would be extremely ineffectual.
- 18 The requirements on the mechanical acceptance
- 19 testing are that most installations require far more than
- 20 one test. So, if you're going to be an acceptance tester,
- 21 only, you are much better off using the NEMIC approach and
- 22 getting all 17.
- 23 If you are, on the other hand, an installation
- 24 firm that simply wants to do the acceptance testing for
- 25 that business that they are already in, then you can pick

- 1 and choose the correct acceptance tests that you want to
- 2 become certified in and simply offer that to the builder.
- 3 The program that NEBB is proposing has a software
- 4 failsafe. As a technician, you are not allowed to sign off
- 5 on any acceptance tests that you are not certified on.
- 6 Additionally, the general contractor goes into
- 7 the system, or can go into the system and look for those
- 8 technicians that have that certification that that general
- 9 contractor needs.
- 10 So, in my personal view, and my personal opinion,
- 11 the approach that NEBB is taking is far more difficult than
- 12 what NEMIC has done. They have to keep track of not only
- 13 all of the test results, all of the technicians that have
- 14 all the various levels of testing, they have to also take
- 15 care of making sure that those tests are actually
- 16 performed, recorded in their system.
- 17 Whereas NEMIC can take the technician through all
- 18 of the exams, all the training, and simply declare them
- 19 that they have the training that is necessary to do every
- 20 acceptance test.
- 21 MR. DIAS: No, I understand everything that
- 22 you're saying. I knew that coming in. What I'm getting at
- 23 is basically, again, a guy could take one, two, three,
- 24 four, ten tests and have the same name as the guy that did
- 25 18 tests.

- 1 MR. LOYER: Yes, but he would not be able to
- 2 actually do the same thing as the guy who has all 18.
- MR. DIAS: I understand that. But we have over
- 4 8,000 members working in California right now, that could
- 5 come down and take one test and, you know --
- 6 MR. LOYER: And they'd be limited to that one
- 7 test.
- 8 MR. DIAS: But they would also be certified.
- 9 MR. LOYER: They'd be certified, but limited.
- MR. DIAS: But we can't do that because we're
- 11 not --
- MR. LOYER: Well, that's another issue that you
- 13 do raise that is not exactly true. NEMIC is allowed to
- 14 come in and change their program, if they so desire.
- MR. DIAS: That's not what they were told.
- 16 That's what the --
- 17 CHAIR WEISENMILLER: Okay, let's hear from the
- 18 applicant, now.
- MR. LOYER: They're allowed to.
- MR. DIAS: Anyhow, that's my comments. Thank
- 21 you.
- 22 CHAIR WEISENMILLER: Okay, sure, thank you.
- 23 Thanks for being here.
- 24 Applicant, do you have a response on this?
- MR. HUBER: Yes, Jim Huber with NEBB.

- 1 And I'd like to thank Mr. Dias for his comment.
- 2 I think he illustrated, perfectly, the reason we think that
- 3 this is a better approach for California. And just for the
- 4 record, we'd be happy to take your people, 8,000 of them to
- 5 come down and we're certify them in the one form.
- 6 How many of you have passed a course, taken a
- 7 class in college ten years ago, but you never use the
- 8 material anymore; could you go do it right now? Probably
- 9 not.
- 10 And one of the advantages to a modular approach
- 11 is it lets the people who are specializing in rooftop
- 12 equipment, small commercial, light commercial systems, it
- 13 allows them to get certified in the stuff that they are
- 14 actually practicing.
- And part of our application, part of our process
- 16 is that if they are not actively doing this work for a
- 17 period of two years, they're no longer certified. They
- 18 have to come back through the program, again.
- Now, I could send everybody to take 17 forms,
- 20 they could go study thermal storage, they could pass that
- 21 exam. They're never going to touch a thermal storage
- 22 system in the rest of their life. How does that benefit
- 23 your constituents? How does that benefit the State of
- 24 California? It really doesn't.
- 25 What you're looking for and what we're looking

- 1 for is people who are qualified, have demonstrated that
- 2 competency in the equipment that they're dealing with.
- 3 Your small firms, this is what they need. It's cost-
- 4 prohibitive for them to go and get certified in 17 forms,
- 5 when they're only going to use 5 or 6 of them. It just
- 6 doesn't make sense to me.
- 7 MS. RYMAN: I'd like to comment, as well. I
- 8 currently work for a large mechanical firm, and am
- 9 affiliated with both NEBB and NEMIC in Title 24. I do see
- 10 the benefit of breaking it out for the simple fact that as
- 11 the large mechanical firm that I work for, we rarely see
- 12 several of those forms. And providing that I will be
- 13 wanting to get my technician certified in every form that
- 14 they can, I would like them to be certified in forms that
- 15 they're only going to be needed, and also the ones that we
- 16 will be required to actually be doing.
- We quite often do not use several of those forms.
- 18 And to be able to be certified in only the ones that would
- 19 be required is a benefit that, as a contractor, we would
- 20 like to see.
- 21 CHAIR WEISENMILLER: Thank you.
- We have one other comment, Chris Walker from
- 23 CALSMACNA.
- 24 MR. WALKER: Good morning, Commissioners. This
- 25 is Chris Walker on behalf of the California Association of

- 1 Sheet Metal and Air Conditioning Contractors, representing
- 2 300 contractors throughout the State of California,
- 3 employing over 25,000 men and women.
- 4 We'd just like to express our general support for
- 5 having more players in the game to provide certification to
- 6 acceptance test technicians. We need more folks to be
- 7 certified.
- 8 I will acknowledge some reservations about the
- 9 equity issue. NEMIC definitely did come in and was held to
- 10 a higher standard in having to certify all 18. And this is
- 11 kind of a modular approach. So, we do understand the
- 12 frustrations that NEMIC and others would have in this
- 13 regard.
- 14 Now, as contractors, we're really concerned, when
- 15 this program is turned on, with not just the quality of
- 16 technician, but also the quantity and the ability to cover
- 17 the State. And in this case, having more certification
- 18 providers helps us get to those numbers.
- 19 At the same time, we do not want to sacrifice
- 20 quality and we get concerned about that. So, it's a tricky
- 21 balance. We look forward to participating on the 29th, for
- 22 the workshop.
- I do want to note, for the Commissioners, that
- 24 the 173 people that we have already certified and are all
- 25 ready to go, are already fully subscribed in their current

- 1 air balance work, right. So, when we think about a 300-
- 2 technician threshold, and it really is kind of an arbitrary
- 3 threshold. That's why we're looking forward to the 29th to
- 4 figure what would be appropriate.
- 5 But please know that the technicians that are
- 6 being certified are already fully employed. And this is
- 7 going to be additional work when you turn it on. So, we
- 8 are concerned about that. We do want more people at the
- 9 table, but we don't want to sacrifice quality. Thank you.
- 10 CHAIR WEISENMILLER: Thank you.
- 11 Anyone else in the room or on the line?
- 12 Then, let's go to the Commissioners.
- 13 COMMISSIONER MC ALLISTER: So, thanks, Joe. So,
- 14 as lead Commissioner on efficiency, you know, we've had a
- 15 lot of back and forth about this. And I think it's helpful
- 16 to sort of raise the level a little bit and provide some
- 17 context, right. We're leading the charge on Title 24.
- 18 Residential, which we voted on some stuff earlier.
- 19 Nonresidential, which we're talking about now.
- 20 Mechanical systems are getting more and more
- 21 sophisticated as we want to squeeze more efficiency out of
- 22 them and get better performance, use less energy and
- 23 provide comfort in our buildings, and this is new and
- 24 retrofit. We really need to up the game in terms of how --
- 25 quality installations, as everybody said they're interested

- 1 in, at reasonable cost. And a true, deep understanding of
- 2 these systems is really important to make sure that these
- 3 systems are installed properly, commissioned properly,
- 4 operate well and there's knowledge about that, and that
- 5 there's resources that building owners can go to, to make
- 6 sure that their systems are operating well.
- 7 So, fundamental to where we're moving in the
- 8 State. And so, we're really at that cutting edge, I think.
- 9 And which is why, you know, obviously, naturally, there's a
- 10 little bit of disagreement about some of the details.
- 11 It's a big State and we need coverage for the
- 12 most common, you know, and for, really, all the different
- 13 types of systems. Some of them are very, very common and
- 14 others less so, as we've heard.
- And so, as we move forward to the February
- 16 workshop and determining when we pull the trigger, and turn
- 17 the trigger on, and require acceptance testing for all
- 18 systems, we really need to make sure that we're not
- 19 imposing undue transaction costs in the marketplace. And
- 20 that is places like Bakersfield and Fresno. It's places
- 21 like, you know, rural areas. There need to be acceptance
- 22 test technicians nearby, or reasonably dispatchable at a
- 23 relatively short time to all of the above.
- 24 And so, I think the tenor of the discussion that
- 25 I'd like to see in February is that. What's practically,

- 1 really, the need of the marketplace and how can we make
- 2 sure that this program satisfies it at a reasonable cost,
- 3 that really gets people what they need efficiently and
- 4 effectively.
- 5 So, I'm really gratified that we have multiple
- 6 entities that are coming up for training and that are
- 7 really excited about this. And I think getting the systems
- 8 to track and monitor the -- you know, the technicians,
- 9 themselves, and the areas they're certified in. But also,
- 10 you know, over time the results of the installations that
- 11 happen and really understanding how the marketplace is
- 12 developing. I think that's really key.
- 13 So again, thanks to Joe and the staff on this.
- 14 And thank you for bringing your application forward.
- 15 All right, so with that I'll move Item 10.
- 16 COMMISSIONER DOUGLAS: Second.
- 17 CHAIR WEISENMILLER: All those in favor?
- 18 (Ayes)
- 19 CHAIR WEISENMILLER: Item 10 passes five to zero.
- 20 Thanks, Joe.
- MR. LOYER: Thank you.
- 22 CHAIR WEISENMILLER: Let's go on to Item 11, the
- 23 City of Huntington Beach. Now, this is ECCA funding.
- 24 MS. CAHSSAI: Good morning, Commissioners. My
- 25 name's Hally Cahssai and I'm with the Efficiency Division.

- 1 I'd like to first note that an incorrect number
- 2 was assigned to this loan. The formerly labeled 006-15-ECD
- 3 is now designed to read 001-15-ECC. No other changes to
- 4 this agreement have been made.
- 5 The City of Huntington Beach is seeking a \$3
- 6 million ECCA loan to replace approximately 11,200 high
- 7 pressure sodium street light fixtures with LED technology.
- 8 The total cost for this project is estimated to be \$3.6
- 9 million, of which \$600,000 will be funded using the
- 10 anticipated rebate incentives from the utility company.
- 11 And the remainder with the ECCA loan at 1 percent.
- 12 Upon completion, this project will save
- 13 approximately 3,500 megawatt hours of electricity annually
- 14 and reduce the City's utility expenses by an estimated
- 15 \$291,000 annually.
- 16 If the Commission approves this loan, the project
- 17 will start in the summer of 2016. The simple payback for
- 18 this project is 10.3 years, based on the loan amount.
- 19 Staff has determined that this loan request
- 20 complies with all the program requirements. I'm here,
- 21 today, to seek your approval. Thank you.
- 22 CHAIR WEISENMILLER: Thank you.
- 23 Any public comment, either in the room or on the
- 24 line?
- Okay, so Commissioners.

- 1 COMMISSIONER HOCHSCHILD: I just want to ask
- 2 Commissioner McAllister, so Marcia Smith has retired from
- 3 ECCA, right? So, who is running ECCA, now?
- 4 COMMISSIONER MC ALLISTER: Yeah, Christine, come
- 5 on up. Yeah, Armand Angulo is his name and he's been --
- 6 MS. COLLOPY: Yeah, good morning. Christine
- 7 Collopy with the Efficiency Division. We are in the
- 8 process of hiring, backfilling behind Marcia Smith. A big
- 9 loss to our division. But we are backfilling and currently
- 10 Armand Angulo is the acting manager.
- 11 COMMISSIONER HOCHSCHILD: Great, thanks.
- 12 COMMISSIONER MC ALLISTER: Yeah, so great team as
- 13 usual. You know, LEDs are the future. I think that's been
- 14 the big message that everybody's very aware of these days.
- 15 And, you know, these projects I think will be coming up in
- 16 some multitude, hopefully. But this is obviously a good
- 17 project, good technology, long lasting, low maintenance,
- 18 all sorts of benefits. And a good payback, as you've said.
- 19 COMMISSIONER HOCHSCHILD: I'll move the item.
- 20 COMMISSIONER MC ALLISTER: I'll second.
- 21 CHAIR WEISENMILLER: All those in favor?
- 22 (Ayes)
- 23 CHAIR WEISENMILLER: This item passes five to
- 24 zero.
- Thank you.

| 1 | Let's go on to Item 12, County of Sacramento                |
|---|---|
| 2 | Department of Transportation, another ECCA loan.            |
| 3 | MS. FISHER: Good morning, Commissioners. My                 |
| 4 | name is Anne Fisher and I'm with the Efficiency Division,   |
| 5 | Local Assistance and Financing Office.                      |
| 6 | The County of Sacramento Department of                      |
| 7 | Transportation is requesting a \$3 million loan to retrofit |
| 8 | 8,233 high pressure sodium and mercury vapor street lights  |
| 9 | with LED streets lights, countywide.                        |

- 9 with LED streets lights, countywide.
- 10 It is estimated the project will reduce the
- 11 County's energy use by over 3 million kilowatt hours per
- 12 year, for a savings of \$226,000 on their annual energy
- 13 bills, and reduce greenhouse gas emissions by 1,043 tons.
- 14 The total project cost is \$3 million and will be
- 15 fully funded by an Energy Commission, one percent ECCA
- 16 loan. The simple payback for the project is 13 years.
- 17 Staff has determined that this loan request
- 18 complies with all of the program requirements and requests
- 19 approval of the loan. Thank you.
- 20 CHAIR WEISENMILLER: Thank you.
- 21 Any public comments, either in the room or on the
- 22 line?
- Then let's go to Commissioners.
- 24 COMMISSIONER HOCHSCHILD: Just a question, I'm
- 25 just looking that these projects are nearly identical, but

- 1 one is a 13-year payback and one is 10 years. Is that just
- 2 because of the different utility service area, territory
- 3 rate structures, is that the --
- 4 COMMISSIONER MC ALLISTER: Yeah, I mean you've
- 5 got rate structures, you have the baseline technology which
- 6 might be a little bit different, the mix. You know, any
- 7 number of reasons. And then, actually, there's a share on
- 8 one and there's not on the other.
- 9 COMMISSIONER HOCHSCHILD: Oh, all right, okay.
- 10 Okay.
- 11 MS. FISHER: That's correct. If I can answer
- 12 that question, the previous loan, the total project cost is
- 13 \$3.6 million. And under the ECCA loan program, they're
- 14 allowed to include all of the energy savings for the entire
- 15 project to calculate the simple payback. Where this loan
- 16 is the total project cost of \$3 million. And so, the
- 17 simple payback reflects only that amount of project being
- 18 done.
- 19 COMMISSIONER HOCHSCHILD: Got it.
- 20 COMMISSIONER MC ALLISTER: I'm so happy just
- 21 to -- on the technical front, just so happy to see the
- 22 sodium and mercury vapor getting replaced. It's just a
- 23 huge win for the quality of the light, as well. So, you
- 24 know, just a good project all around. So, I'll move this
- 25 item.

| 1  | COMMISSIONER HOCHSCHILD: Second.                           |
|----|--|
| 2  | CHAIR WEISENMILLER: All those in favor?                    |
| 3  | (Ayes)   |
| 4  | CHAIR WEISENMILLER: This item also passes five             |
| 5  | to zero.   |
| 6  | Thank you.   |
| 7  | Item 13 is held. It's in the messages. We're               |
| 8  | coming forward, I guess whenever we go out for an EPIC,    |
| 9  | people stipulate that they will deal with the contract     |
| 10 | terms and conditions in the package. Obviously, then, EPRI |
| 11 | decided that they'd like to actually change some of them.  |
| 12 | So again, the basic message is if you have simple          |
| 13 | things, okay, otherwise forget it and we'll go on to the   |
| 14 | next winner.   |
| 15 | So, go ahead to Number 14, Energy Storage,                 |
| 16 | Applied Research and Development.                          |
| 17 | MR. LOREDO-CONTRERAS: Yeah, good morning Chair             |
| 18 | and Commissioners. My name is Ostap Loredo-Contreras. I'm  |
| 19 | from the Energy Research and Development Division. I'm     |
| 20 | here to present four items for consideration. These four   |
| 21 | projects were selected from a competitive solicitation.    |
| 22 | The Notice of Proposal awarded for PON-13-302 was          |
| 23 | recently amended to provide additional funding for the     |
| 24 | Electric Program investment charge for the purpose of      |
|    |  |

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funding applied research and development projects that will

25

- 1 advance technologies and develop strategies with focus on
- 2 developing advanced energy storage technology solutions to
- 3 lower cost and achieve California policy goals.
- 4 In addition, the California Public Utility
- 5 Commission has identified energy storage as an important
- 6 resource to integrated renewable energy at increasing
- 7 penetration levels with demand response.
- 8 Also, energy storage systems provide high value
- 9 ancillary services and load following for the California
- 10 Independent Systems Operator markets.
- 11 The projects seeking approval resolution, Item A,
- 12 is a grant with Amber Kinetics, Incorporated to fund and
- 13 advance flywheel energy storage technology, primarily
- 14 focused on developing and improving raw material
- 15 manufacturing processes and shed geometries for higher
- 16 performance, lower costs, and improve energy
- 17 (indiscernible).
- 18 The next project, Item B, is a grant with Fuel
- 19 Cell Energy, Incorporated to develop an advanced hybrid
- 20 battery fuel cell energy storage system to mitigate
- 21 intermittent renewable peak demands.
- The project will be demonstrated at the Orange
- 23 County Sanitary District and at the University of
- 24 California, Irvine.
- I would like to clarify something for Item B,

- 1 Chair and Commissioners. Although the agenda description
- 2 places a space between the two words, "Fuel Cell", the
- 3 legal name of the company, without spaces, as provided in
- 4 the backup materials is the company receiving the grant.
- 5 CHAIR WEISENMILLER: Right.
- 6 MR. LOREDO-CONTRERAS: Just I wanted to clarify
- 7 that.
- 8 Item C is a grant with EOS Energy Storage, a
- 9 Limited Liability Company, to develop a test behind the
- 10 meter, residential and commercial AC, integrated Zenic
- 11 (phonetic) battery technology energy storage system. Two 1
- 12 to 4 kilowatt residential systems and one 20 to 40 kilowatt
- 13 commercial systems will be installed and demonstrated on
- 14 both a stand-alone basis and integrated with solar PV. The
- 15 systems will be tested on the various applications, such as
- 16 demand charge management, solar PV achievement and
- 17 frequency regulation on-site at California -- at the
- 18 University of California, San Diego.
- 19 Finally, but not less important, Item D, is a
- 20 grant with LightSail Energy to increase the performance and
- 21 lower the cost of an isothermal compressed air energy
- 22 storage system in a micro grid environment.
- The isothermal compressed air energy storage
- 24 system will utilize waste heat, solar PV, and other
- 25 distributed energy generation through the California

- 1 (indiscernible).
- 2 Staff seeks proposed resolution for approval of
- 3 these four projects. I'm happy to address any questions
- 4 you may have.
- 5 Also, I want to mention that representatives from
- 6 Amber Kinetics, FuelCell Energy, and EOS Energy Storage,
- 7 and LightSail are on the line to answer any questions.
- 8 Thank you.
- 9 CHAIR WEISENMILLER: Great, thank you. These
- 10 projects went through the R&D Committee and have gone
- 11 through the projects. I guess the one thing that would be
- 12 helpful, either if you or the LightSail gentleman clarify
- 13 just the relationship between this project and the one we
- 14 funded late last year.
- 15 MR. LOREDO-CONTRERAS: The first project was
- 16 approved on December 9th. This is a pilot demonstration at
- 17 UC San Diego. That was to test the performance, the
- 18 physical performance for the isothermal compressed unit
- 19 with solar PV, and its ability to perform load following
- 20 and provide ancillary services.
- 21 This second project that we're looking -- we're
- 22 seeking approval, the main differences will be the unit
- 23 from UC San Diego will be tested at the UC and they will be
- 24 modified to incorporate waste heat from a fuel cell and a
- 25 natural gas turbine. So, this additional heat will improve

- 1 the overall efficiency of the actual thermal compressed
- 2 energy storage system unit and lower the cost. That's the
- 3 main difference.
- 4 CHAIR WEISENMILLER: Thank you.
- In terms of the applicants, does anyone want to
- 6 make a statement or do you want to wait for questions?
- 7 Those on the line.
- 8 Otherwise, we could transition to the
- 9 Commissioners, while they're deciding.
- 10 UNIDENTIFIED AUDIENCE MEMBER: I still want to
- 11 speak.
- 12 CHAIR WEISENMILLER: Okay, let's start with --
- 13 I've got two cards, one from FuelCell Energy and one from
- 14 LightSail. So, let's start with FuelCell Energy.
- 15 MR. LOREDO-CONTRERAS: Pinakin, are you on?
- 16 MR. PATEL: Yes, I'm on the line. Could you
- 17 please speak, Pinakin, you're already on the line.
- MR. PATEL: Yes, this is Pinakin Patel, from
- 19 FuelCell Energy. Our project is the new way to combine
- 20 battery and fuel cell to provide very comprehensive
- 21 solution for energy storage. Our battery will provide
- 22 rapid response and fuel cell hydrogen will provide range
- 23 extension capacity expansion. It's uniquely suited for
- 24 meeting the energy storage requirements.
- 25 And it is building on the existing investment

- 1 done in California State, at (indiscernible) site.
- 2 CHAIR WEISENMILLER: Okay, thank you.
- 3 LightSail?
- 4 MR. O'GUIN: Travis O'Guin for LightSail Energy.
- 5 First of all, I just want to thank the Commissioners and
- 6 thank David Chambers for all the work in managing this
- 7 process. I really appreciate it.
- 8 So, yes, this project is really going to focus
- 9 heavily on utilizing waste heat to improve our efficiency.
- 10 This is a really unique feature to the isothermal case.
- 11 Certainly, it's something you don't find in electrochemical
- 12 energy storage, where we can actually scavenge waste heat,
- 13 and even low-grade waste heat and convert that into usable
- 14 electricity.
- So, we're really going to focus on that and
- 16 testing ancillary service -- mimicking ancillary services.
- 17 These are features that UC Irvine, and their very advanced
- 18 micro grid have the capability to do. So, we're very
- 19 excited to be partnering with them and really hope to glean
- 20 a lot of information from this project.
- 21 CHAIR WEISENMILLER: Okay, thank you.
- I don't know if anyone's on from Amber or from
- 23 EOS. Okay, so let's transition to the Commissioners. Any
- 24 questions or comments on it?
- 25 COMMISSIONER MC ALLISTER: It looks like great

- 1 stuff, storage.
- 2 CHAIR WEISENMILLER: Okay.
- 3 COMMISSIONER MC ALLISTER: Is coming down the
- 4 road. That's great. Okay, so let's move this item.
- 5 CHAIR WEISENMILLER: Yeah.
- 6 COMMISSIONER SCOTT: Second.
- 7 CHAIR WEISENMILLER: All those in favor?
- 8 (Ayes)
- 9 CHAIR WEISENMILLER: This item also passes five
- 10 to zero.
- 11 Thank you.
- 12 Let's go on to Item 15, Driving the Integration
- 13 of Electric Vehicles to Maximize Benefits to the Grid.
- 14 Reynaldo, please.
- MR. GONZALEZ: Good morning, Chair Weisenmiller
- 16 and Commissioners. My name is Rey Gonzalez. I'm a
- 17 Technical Staff Lead for the Transportation Research and
- 18 the Energy Generation Research Office.
- 19 Staff is requesting approval of a grant agreement
- 20 with Andromeda Power. A competitive solicitation was
- 21 released December 18th, 2014 to fund applied research and
- 22 development projects that advanced technologies and
- 23 strategies for smart and efficient charging, and vehicle-
- 24 to-grid communication interfaces.
- 25 The solicitation included two projects groups.

- 1 Group one was for smart and efficient charging. And group
- 2 two for grid communication interface supporting vehicle-to-
- 3 grid services.
- 4 A Notice of Proposed Awards was released on March
- 5 16th, and amended on October 1st, of 2015, as additional
- 6 EPIC funds were available to extend the number of awards.
- 7 Three agreements from the solicitation were
- 8 approved at the June 10th Business Meeting of 2015. Staff
- 9 is requesting approval of a resolution for an additional
- 10 agreement today, under group two of the solicitation.
- 11 The proposed grant agreement with Andromeda Power
- 12 will develop a bidirectional fast charging and discharging
- 13 station that effectively integrates plug-in electric
- 14 vehicles into the utility grid. The grid communication
- 15 interface will utilize a virtual machine strategy with the
- 16 ability to interconnect with plug-in electric vehicles of
- 17 any standard, improving interoperability. Which is a goal
- 18 identified in the Vehicle Grid Integration Roadmap which
- 19 recommends consistency across technologies.
- The improved grid communication method will
- 21 address the need for scheduled charging and discharging
- 22 based on pricing or signals received from third parties,
- 23 such as utilities, system operators, or plug-in electric
- 24 vehicle service providers, all while maintaining drivers'
- 25 mobility, requirements or preferences.

- 1 Smart charging will be optimized to help reduce
- 2 fluctuations in the electricity grid and will have the
- 3 ability to absorb excess renewable generation, while
- 4 providing economic benefits to plug-in electric vehicle
- 5 owners.
- The smart, fast-charting station will be
- 7 developed with a real-time monitor and control feature that
- 8 enables quick automated demand response to the electric
- 9 utilities.
- 10 Benefits of this research include reductions in
- 11 electricity costs, reductions in grid demand, and increased
- 12 grid reliability.
- 13 Staff recommends approval of this proposed
- 14 project. I'm happy to address any questions at this time.
- 15 CHAIR WEISENMILLER: Thank you. This is, again,
- 16 with the R&D Committee. I think it's a good project.
- 17 Happy to take any questions or comments on it.
- 18 COMMISSIONER SCOTT: I think this is one of the
- 19 ones where my heart gets beating. I thought this was a
- 20 really cool project. Rey, and Alicia, and Laurie came and
- 21 gave me a terrific briefing on this one and I just -- I
- 22 think anything where we efficiently integrated the plug-in
- 23 vehicles into the grid is pretty neat stuff.
- So, I asked them, you know, when's the project
- 25 going to be done? So, I'm already looking forward to

- 1 hearing what the results are.
- 2 So, I will move approval of Item 15.
- 3 COMMISSIONER MC ALLISTER: Second.
- 4 CHAIR WEISENMILLER: All those in favor?
- 5 (Ayes)
- 6 CHAIR WEISENMILLER: This item passed five to
- 7 zero.
- 8 Thanks, Rey.
- 9 MR. GONZALEZ: Thank you.
- 10 CHAIR WEISENMILLER: Let's go on to 15, Hydrogen
- 11 Refueling Infrastructure.
- MS. WILLIAMS: Good morning, Chairman,
- 13 Commissioners. May name is Sarah Williams. I'm with the
- 14 Zero Emissions Vehicle and Infrastructure Office, or ZEVIO.
- 15 The most recent hydrogen refueling infrastructure
- 16 funding solicitation, PON-13-607, had two goals. One, to
- 17 develop California's infrastructure necessary to dispense
- 18 hydrogen transportation fuel and, two, to provide operation
- 19 and maintenance, or O&M funding, to support the hydrogen
- 20 refueling stations prior to the large-scale rollout of fuel
- 21 cell electric vehicles.
- 22 Owners and operators of existing, planned and
- 23 proposed hydrogen fueling stations applied for O&M grants.
- I am here, today, to request approval for four
- 25 O&M grants, for a total of up to \$1.02 million, contingent

- 1 on the operational data of the hydrogen refueling stations.
- 2 The first grant is -- the first O&M grant is to
- 3 ITM Power for \$300,000 to support the station in Riverside.
- 4 The Riverside station became operational on October 31st,
- 5 2015. And in accordance with PON-13-607 is eligible to
- 6 receive the full \$300,000.
- 7 The other three proposed O&M grants are for
- 8 stations that expected to be operational on or before
- 9 February 29th, 2016. In accordance with PON-13-607, these
- 10 stations are eligible for up to \$80,000 per year, for up to
- 11 three years. These grants are for up to \$240,000.
- 12 There are two for FirstElement Fuels, in La
- 13 Canada, Flintridge and Saratoga, and one for HTEC, Hydrogen
- 14 Technology and Energy Corporation, for the hydrogen
- 15 refueling station in Woodside.
- In accordance with PON-13-607, actual O&M funding
- 17 support for these three stations is contingent on the
- 18 operational data of the station. Funding, however, will
- 19 not exceed \$240,000 for these stations.
- I am asking today for two actions by the
- 21 Commission. First, to concur with staff's findings that
- 22 the proposed projects are CEQA exempt. And second, to
- 23 approve the proposed projects and grant funding.
- I am here for any questions.
- 25 CHAIR WEISENMILLER: Great, thank you.

- 1 First, is there any comments from anyone in the
- 2 room or on the line?
- 3 Okay, then Commissioners? Commissioner Scott?
- 4 COMMISSIONER SCOTT: So, we talked about this a
- 5 little bit at last month's meeting, where we had some more
- 6 Operations and Maintenance Grants coming through. And it's
- 7 an exciting time for the hydrogen stations because that
- 8 means they are constructed, and ready to fuel, and they're
- 9 waiting for the cars. And so, the operations and
- 10 maintenance kind of help to get them across that hurdle
- 11 until more and more cars come, so that there can be
- 12 successful fueling of the cars, and make money fueling the
- 13 cars.
- So, I think these are great grants and happy to
- 15 move approval of Item 16, if there's no other questions.
- 16 Okay, I move approval of Item 16.
- 17 COMMISSIONER MC ALLISTER: I'll second.
- 18 CHAIR WEISENMILLER: All those in favor?
- 19 (Ayes)
- 20 CHAIR WEISENMILLER: This passed five to zero,
- 21 again.
- Thank you.
- MS. WILLIAMS: Thank you.
- 24 CHAIR WEISENMILLER: Minutes? These are the
- 25 December 9th, Business Meeting Minutes.

- 1 COMMISSIONER MC ALLISTER: I'll move. 2 COMMISSIONER SCOTT: Second. 3 CHAIR WEISENMILLER: All those in favor? 4 (Ayes) 5 CHAIR WEISENMILLER: This passed five to zero. 6 So, let's go on to the Lead Commissioner Reports. 7 Commissioner Scott. 8 COMMISSIONER SCOTT: Great. So, there's not too 9 much to report since I saw you all last. So, maybe I 10 might just say Happy New Year to you and how much I'm 11 looking forward -- we've got a lot on our plates for 2016 12 and I'm very much looking forward to working on all of 13 that, with all of you, and the Energy Commission staff. 14 We have, next week, the Investment Plan meeting for the Alternative and Renewable Fuel and Vehicle 15
- 17 And the week after that, several of us will be at
- 18 the Verde Coalition, talking about some of the work that

Technology Program coming up.

- 19 the Energy Commission does with our compatriots down in
- 20 Southern California. So, those are a couple of things
- 21 coming up.

16

- 22 COMMISSIONER MC ALLISTER: Yeah, great, so Happy
- 23 New Year, as well. Just a couple of things since the last
- 24 meeting. Went to the ASIAN, a bunch of Asian, Southeast
- 25 Asian countries get together periodically and there was

- 1 a -- you know, it's always a group of those countries and
- 2 talk about policy issues. The State Department convened a
- 3 meeting, in December, with the members in San Francisco.
- 4 So, I was astonished at how interested, some of
- 5 them very innovative stuff, but very interested in learning
- 6 from California in their renewables, and efficiency space.
- 7 Certainly, electric infrastructure, green management.
- 8 Trying to sort of do the "leap frogging", as they can.
- 9 Obviously, facing lots of developing country challenges.
- 10 And so, having done a lot of that work in a past
- 11 life, I found the contributions I could make to be good
- 12 and, also, it was interesting to hear each country's kind
- 13 of versions of the challenges they face with their electric
- 14 sector. I mean, reliability is not as good as it is here
- 15 and the infrastructure challenges are really large.
- 16 Anyway, I saw it as an opportunity to reach out,
- 17 on behalf of California, to try to provide that
- 18 international leadership that the Governor is really trying
- 19 to provide. Obviously, in the context of Paris and moving
- 20 forward on the climate front. And a really, really very
- 21 receptive audience, so I was very encouraged by that.
- 22 And then, I guess just wanted to mention, you
- 23 know, the Federal budget has happened for the most part.
- 24 Those discussions were happening when I was out in DC, at
- 25 the NASEO meeting in December. And there were -- suffice

- 1 it to say we dodged a bunch of bullets in terms of the
- 2 efficiency. The stuff that could have been in the budget,
- 3 that was not there, actually the discussions were a little
- 4 bit hairy, actually, if some of the -- if some of the
- 5 constraints would have been put on the Federal system in
- 6 terms of promoting energy efficiency. Obviously, we got
- 7 some good stuff with the extension of the tax credits for
- 8 solar and wind, and some other stuff. So, I think that in
- 9 sum that's a very positive set of developments.
- 10 And wanted to just congratulate Laurie ten Hope,
- 11 actually, and the EPIC team for a great symposium last
- 12 month. And, really a good group, and good discussion, and
- 13 a lot of interesting projects that were highlighted in that
- 14 event. And I think it really served its purpose very well
- 15 and got some -- you know, some stakeholders, their kudos,
- 16 and others involved that could see the potential and,
- 17 hopefully, will be applying. So, good event. I really
- 18 liked that approach.
- 19 And with that, I guess really looking forward to
- 20 a productive 2016, with the Governor's budget. It checks
- 21 the right boxes, I think, with its conditions to implement
- 22 the legislation that we've talked about earlier, and
- 23 opening the rulemaking for 350 and 802, and moving forward
- 24 on all the various fronts.
- 25 So, looking forward to working with you all and

- 1 congratulations.
- 2 COMMISSIONER DOUGLAS: You know, I really have no
- 3 reports, but it's great to be back, thanks.
- 4 COMMISSIONER HOCHSCHILD: Well, first of all,
- 5 congratulations to Commissioner Scott. Not a surprise, but
- 6 kind of like Christmas. You know it's coming, but it's
- 7 good news.
- 8 So, just a few quick updates on mine. I just had
- 9 an op-ed that came up today, that I did with Byron Washom,
- 10 from UC San Diego, about what's happening in San Diego.
- 11 They, obviously, are the largest city in the United States
- 12 to do, now, a mandate -- a 100-percent renewable energy
- 13 mandate by 2035. And UC San Diego has actually
- 14 distinguished itself, really, in the UC system, with
- 15 piloting a lot of these very forward thinking, new
- 16 technologies.
- 17 And I think the campuses are showing themselves
- 18 to be similar to the military bases, a great way to pilot
- 19 the technologies of the future and really prove out what
- 20 works and what doesn't.
- 21 Had a great contact with Commissioner Peterman
- 22 last week on what's happening with RPS, and so forth.
- 23 Great, great collaboration with her team.
- I would just point out, you know, I spent the
- 25 last 15 years in renewable policy. What's happened, the

- 1 last six months have really been the most extraordinary in
- 2 my tenure in this space, if you just take them together
- 3 with the Clean Power Plan that the EPA's implementing,
- 4 going into effect this summer, the passage of SB 350 and 50
- 5 percent renewables. And, you know, the local and state
- 6 progress on other fronts.
- 7 And then, the extension of the solar and wind tax
- 8 credits, to me, somewhat unexpectedly, and that's really
- 9 going to more than double the renewable market in the
- 10 United States. So, I'm very excited about the new
- 11 possibilities that brings.
- 12 And a lot of interest from other countries. I'm
- 13 getting flown out to Australia and Mexico in the next few
- 14 months to go talk to various institutes there, that are
- interested in what we're doing, and want to learn more.
- 16 And, you know, other states are tracking what we're doing
- 17 closely, so it feels very exciting.
- 18 And I did want to -- Mr. Chair, when you get to
- 19 your comments, I'd love an update, also, on Aliso Canyon.
- 20 That's it for me, thanks.
- 21 CHAIR WEISENMILLER: Okay. Again, I was going to
- 22 thank or congratulate Janea on her reappointment, again.
- 23 In terms of, yeah, all I was really going to
- 24 cover was Aliso Canyon. And the Governor put out an order
- 25 on Aliso, and just to hit the points there. I mean, it's

- 1 sort of a good news -- good news/bad news story. I mean,
- 2 in terms of the good news is that we've been pulling gas
- 3 out of the field, and in significant levels, and as we have
- 4 done that it's really reduced the leak rate substantially.
- And as we've been pulling gas out, we've done
- 6 some tricks of the trade on gas stuff, but basically it's
- 7 been cold in Southern California.
- 8 And again, just to remind everyone that most of
- 9 gas storage is used for residential customers. And most of
- 10 the gas stored there is for residential. You know, again,
- 11 if you look at the overall storage capacity, I think it's
- 12 about 120 or so, and about 80 of that is SoCal Gas's
- 13 residential. And I think the next largest is Edison, which
- 14 is less than 10. So, a lot of smaller pieces there beyond
- 15 that, 30 or 40 different companies.
- 16 But again, you know, you think residential. And
- 17 one of the reasons -- and, you know, all of the utilities
- 18 have to design their gas system so that you can maintain
- 19 absolute reliability for residential customers. And unlike
- 20 electric, if you ever have to interrupt gas customers, you
- 21 go house by house to relight the pilot lights.
- 22 And so, actually, when PG&E lost gas service in a
- 23 part of its area, recently, they literally went house by
- 24 house. So, you really don't want to go there is the bottom
- 25 line.

- 1 So, we pulled down gas substantially. It's
- 2 reduced the leak rate substantially.
- 3 And at the same time, the bad news is some of the
- 4 things, which when I talked about it initially, where we
- 5 thought might work in terms of injecting stuff in at the
- 6 top, didn't work. You know, I mean they -- certainly,
- 7 there were stability reasons or reasons that we're just not
- 8 going to do that again.
- 9 So, at this point we have -- the notion is to
- 10 drill well down to connect at roughly 8,000 feet and do the
- 11 injections there.
- Now, in thinking about it, you're actually trying
- 13 to connect two wells at 8,000 feet. And we have a backup
- 14 to that, too.
- So, but basically, in terms of the Governor's
- 16 Executive Order, the top priority is to stop the leak,
- 17 right. That's number one. And as part of that, so we're
- 18 trying to maximize -- we've done a good job of maximizing
- 19 withdrawals. We're now at the point of thinking about
- 20 reliability implications. You know, we and the PUC on
- 21 that.
- 22 And the issue, as I said, basically, SoCal Gas
- 23 will not be allowed to really inject anymore gas into the
- 24 field until we can check -- to the extent there are similar
- 25 wells, you know, I'm going to say 40 some. I think it's

- 1 42. But anyway, a large number of similar wells that are
- 2 comparable in age and technology to the one that's failing.
- 3 They need to test those before we do reinjection.
- And so, part of it is the normal process as you
- 5 pull down the field by the end of March, and then you start
- 6 reinjecting April 1st. So, one of the issues is that
- 7 relates to how far we pull the field down now is that we're
- 8 not -- I don't see any chance we're going to be starting
- 9 reinjections April 1st. I don't know how long it's going
- 10 to take to go through what they need to go through.
- And so, but we need to check and make sure it's
- 12 safe. We need to think about it because, ultimately, one
- 13 of the things we're going to look for is making sure that
- 14 we have reliable gas service in Southern California.
- We have some -- you know, for this winter, we're
- 16 pretty far into the heating season, the levels are down.
- 17 But again, I'm not that nervous about January, unless we
- 18 have the -- 1948 was like the worst year for a cold spell
- 19 in California. So, I actually thought to ask. So, if we
- 20 had one of those in January or February, I would be
- 21 nervous. But assuming, again, it's more like a 1 in 35, or
- 22 something.
- Okay, so then you get to the summer and to the
- 24 extent that gets to part of it back up on the power system,
- 25 and we're really just starting to get into analyzing that.

- 1 And then next winter.
- 2 So, again, when you look at the specifics, we're
- 3 trying to get maximized withdrawals now, with the PUC.
- 4 With the PUC, we're working, and the ISO, working on sort
- 5 of the reliability and we anticipate this would be similar
- 6 to what we were doing -- you know, as soon as we discovered
- 7 SONGS was gone. You know, just every week trying to figure
- 8 out what in the hell's going on to keep the gas line.
- And then, there's a third piece we're involved
- 10 in. So, number one, stop the leak, protect public safety,
- 11 ensuring accountability. There's a lot that the PUC and
- 12 DOGGR would do to look at cost and the allocation of cost,
- 13 and looking at the root cause.
- 14 And, certainly, the Air Board will come up with a
- 15 mitigation plan as part of that.
- So, but again, we've certainly helped on
- 17 identifying the magnitude of the leak or at least one of
- 18 the data points. But Air Board's on point on that.
- 19 There will be stringent oversight of gas fields,
- 20 so a lot of work by DOGGR. And again, we're back in an
- 21 activity which combines sort of a soup of agencies that's
- 22 going to be looking at longer-term safety issues associated
- 23 with health risk, et cetera, with storage located around in
- 24 California.
- 25 COMMISSIONER HOCHSCHILD: Mr. Chairman, if I

- 1 could just ask, I know you have rightly, I think, pushed
- 2 for gas safety as a focus in the gas R&D investments we're
- 3 making.
- 4 One question I had for you, just around what
- 5 we've learned, how would you assess our ability to, as a
- 6 State, detect leaks when they occur today? You know, I'm
- 7 just interested in how much has happened that we're not
- 8 aware of or is that pretty --
- 9 CHAIR WEISENMILLER: That's actually one of the
- 10 things that's indicated here is we do want to have
- 11 detection capability around sort of the major facilities.
- 12 Again, it's sort of -- but it's the Air Board. Basically,
- 13 the Air Board will try to figure out what they want.
- 14 It might be infrared, like you've probably seen
- 15 some of the EDF pictures. There might be other ways. I
- 16 mean, there is an experimental set up in Southern
- 17 California, basically monitoring methane emissions. I
- 18 think I indicated, there are sort of towers that are doing
- 19 it continuously. It's certainly, probably for the air
- 20 regulators, preferable to saying, well, once a week we flew
- 21 over it and saw the number was less than we saw the prior
- 22 week.
- 23 But again, they really -- the state of the art
- 24 there, we have satellites, we have airplanes, we have --
- 25 and we have mobile devices. You've probably seen the PG&E

- 1 ones. But, basically, I think the Air Board's more
- 2 comfortable if they have sort of network of stationary
- 3 sources. And again, there's no reason not to have those
- 4 in, you know, major fields like this, I'd have to say.
- 5 COMMISSIONER HOCHSCHILD: Thank you.
- 6 CHAIR WEISENMILLER: So, yeah -- no, I think it's
- 7 just -- at the Verde exchange last year, I mean it was
- 8 Mary, and myself, and Dennis. I actually was the one who
- 9 got all the questions from Tom Hayden, about saying we
- 10 really needed to be on top of safety and mitigating leaks.
- 11 So, and I think, certainly, that's one of the
- 12 things we will roll, as part of this next IEPR, have to
- 13 look again at these issues. But again, I think the
- 14 threshold issues are safety and mitigating leaks.
- 15 COMMISSIONER MC ALLISTER: Chair, where's sort of
- 16 the priority? Obviously, there's carbon equivalent issues
- 17 here, as well. I mean, the leakage rate in the system
- 18 really matters in terms of setting policy.
- 19 CHAIR WEISENMILLER: Right.
- 20 COMMISSIONER MC ALLISTER: Who's in charge of
- 21 sort of figuring out what that looks like in terms of
- 22 methane versus carbon? Is that the ARB or do we have a
- 23 role in it?
- 24 CHAIR WEISENMILLER: Well, again, in terms of the
- 25 fuel, itself, you know, we're sort of transitioning to

- 1 reliability -- you know, we've drawn it down enough. And
- 2 part of it is there's no mechanical -- for withdrawals,
- 3 there's no mechanical system at all. It's all natural.
- 4 So, as we reduce the pressure, we also reduce the potential
- 5 withdrawal rate.
- 6 COMMISSIONER MC ALLISTER: Yeah.
- 7 CHAIR WEISENMILLER: So, you know, it's sort of
- 8 one of those for better or worse that's the way it's going
- 9 to operate.
- 10 But I think in terms of against carving up
- 11 things, it's probably pretty safe to say that, you know,
- 12 DOGGR is wells, you know, and all the safety issue involved
- 13 with the wells.
- 14 COMMISSIONER MC ALLISTER: Uh-hum.
- 15 CHAIR WEISENMILLER: PUC sort of on the pipe side
- 16 of stuff. ARB on the emission side of stuff. And, you
- 17 know, actually, health services -- I mean, if you look at,
- 18 we've done a very good job of, you know, identifying every
- 19 State agency that this touches and pulling us all together
- 20 on daily calls. And, you know, obviously, OES, Emergency
- 21 Services, has been really critical in this area, too.
- 22 So, it's been a pretty impressive effort, I
- 23 think, on all of us getting organized. A couple, you know,
- 24 less than fun calls over the vacation that went on forever,
- 25 I'd have to say. You know, but I think we're doing

- 1 everything we can is the bottom line. And we're seeing
- 2 some impacts. But it's certainly frustrating for all
- 3 involved.
- I think, as I indicated the last time, for the
- 5 population around there, it's the mercaptans. You know,
- 6 that methane is pretty much an odorless quantity, you know.
- 7 And so, they put mercaptans in it to, you know, basically
- 8 alert people if there's a leak. And so, that's sort of one
- 9 thing. It smells like rotten eggs, pretty much. So, if
- 10 you spell it, yeah, it's annoying.
- If you live in an area where it's gone on for
- 12 months, it's gotten past annoyance, you know.
- 13 There are also -- so, SoCal's doing everything
- 14 they can. And one of the things they're talking about
- 15 doing is trying to put a system to basically collect the
- 16 gas, ship it somewhere and flare it. So, you know, again,
- 17 while putting filters in people's houses so you can filter
- 18 out the mercaptan.
- 19 Anyway, it's a pretty -- it's gotten everyone's
- 20 attention at this point is the bottom line, and people are
- 21 certainly looking at a lot of ideas. You know, nothing's
- 22 really off the table in terms of going through -- maybe
- 23 once you've done the analysis, you drop it off the table.
- 24 You know, but there's certainly a full corps effort on it.
- 25 COMMISSIONER MC ALLISTER: Yeah.

- 1 CHAIR WEISENMILLER: But, and at this point,
- 2 obviously, more legislative attention. I think the package
- 3 is close to the Governor's order.
- 4 The tricky part in the order, frankly, is that
- 5 it's not -- you know, as I said, this is really
- 6 overwhelming people. But if you were to go through and say
- 7 what's the public health consequences, you know, it's
- 8 annoyance as opposed to public health. Which is not to
- 9 trivialize the annoyance part but, you know, it's not like
- 10 there's enormous benzene emissions or something that people
- 11 are dealing with every day.
- Okay, so I think Chief Counsel's report.
- MS. VACCARO: Good morning. I don't have a
- 14 substantive report, but I would like to make an
- 15 introduction. It seems as though every meeting we have a
- 16 few more people joining the Chief Counsel's Office in some
- 17 fashion.
- 18 And this week we have an intern. And if you'd
- 19 please stand? This is Bianca Angulo. She's in her final
- 20 year at McGeorge Law School. So, you'll be seeing her face
- 21 and she might be working on projects that you have. So,
- 22 just so you're able to put a name to a face. And we're
- 23 very happy to have her.
- 24 CHAIR WEISENMILLER: Yes, welcome aboard.
- The Executive Director Report.

- 1 MR. OGLESBY: Thank you, Mr. Chair. I have an
- 2 introduction, as well. John Kato, could you come forward a
- 3 little bit?
- 4 So, we have a new Director of our Fuels and
- 5 Transportation Division. His name's John Kato. And come
- 6 on forward.
- 7 (Laughter)
- 8 MR. OBLESBY: I want to make sure you have a good
- 9 look at you, so they know where to go when there's an
- 10 issue.
- 11 But I'd like to sing John's praises for a minute,
- 12 because he comes to us from the Air Resources Board, where
- 13 he'd been for several years, and had worked on the
- 14 management of several of the complementary programs to our
- 15 ARFVTP program, from the ARB side. So, he comes to us
- 16 already bringing a wealth of experience, as well as program
- 17 knowledge on the Vehicle and Fuels Programs that we're all
- 18 striving to implement here at the State.
- 19 So, with that, if you want to say hello, very
- 20 briefly?
- 21 MR. KATO: Hello, and I'm very humbled to be here
- 22 and I look forward to working with all of you. Thank you.
- 23 CHAIR WEISENMILLER: Welcome.
- MR. OGLESBY: I do want to spend a couple of
- 25 minutes, very briefly, highlighting our budget. The

- 1 Governor unveiled the budget last week. And the Energy
- 2 Commission has a number of proposals that we are advancing
- 3 in the Legislature this cycle. We call them BCPs.
- And I won't go through all 14 of them, but I'll
- 5 highlight a few of them so that you know that we're working
- 6 on them.
- Now, let me, as I highlight, these are proposals.
- 8 They still need to go through legislative committees and
- 9 the whole legislative process with the entire budget. So,
- 10 because they are introduced in this form, there's no
- 11 assurance that we come out at the other end with the
- 12 package, as proposed.
- But we do have an ambitious package that will
- 14 help us achieve our goals in many areas of the priorities
- 15 of the organization.
- One of them, which is probably our largest one in
- 17 terms of personnel, are a package of proposals to staff up
- 18 to meet the SB 350 and AB 802, in order to implement these
- 19 very ambitious items of legislation. In total, we're
- 20 looking for about 37 and a half positions, and some
- 21 contract funds, as well.
- 22 But those will -- if we achieve in getting those,
- 23 we'll be able to begin implementation of these programs.
- 24 We're beginning, now, under existing resource, but we'll be
- 25 able to carry through the implementation of these programs.

| 1  | I would also like to highlight some of the                   |
|----|--|
| 2  | funding proposals under the Greenhouse Gas Reduction Fund    |
| 3  | that are also complementary to these programs. A new one     |
| 4  | is \$25 million proposed to expand biofuel production in the |
| 5  | State, and this supports the Governor's pillar to reduce     |
| 6  | petroleum consumption. It helps with the Low Carbon Fuel     |
| 7  | Standard. And, ultimately, contributes to achieving our      |
| 8  | greenhouse gas goals.  |
| 9  | In addition to the biofuels greenhouse gas                   |
| 10 | reduction proposal, we are re-proposing or continuing the    |
| 11 | proposition for the Legislature to approve funds to support  |
| 12 | programs to mitigate the drought. Although it has been       |
| 13 | raining, as recently as this morning, and we're looking      |
| 14 | better, it's important to remember that our reservoirs are   |
| 15 | only half of normal as they now stand, and we have multiple  |
| 16 | years of depletion in the groundwater throughout the State.  |
| 17 | And, long-term climate forecasts project that we             |
| 18 | will have less snow pack to rely on, as we go forward in     |
| 19 | the future.  |
| 20 | So, it's really important not only for energy                |
| 21 | policy reasons, but also for water policy reasons to         |
| 22 | continue to look for ways to use this valuable resource as   |
| 23 | efficiently as possible.                                     |
| 24 | So, having said that, last year we proposed, and             |

this year we're proposing again because the Legislature

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- 1 failed to act on these two items last year, \$30 million for
- 2 the Water Energy Technology Program, which would be
- 3 administered by a research division. It's also called the
- 4 WET Program. And this is to deploy leading edge
- 5 technologies in agricultural, commercial, industrial and
- 6 some residential purposes.
- 7 And also, a rebate program, a direct install
- 8 program for energy-efficient appliances, like clothes
- 9 washers, in low-income and disadvantaged communities. A
- 10 host of other things, like faucets and other fixtures that
- 11 use less water.
- We are also proposing a repurposing of funds that
- 13 came in under the ARRA Program, so that we can boost our
- 14 investment in State buildings to improve their efficiency
- 15 and installation of renewables. But also to lean forward
- 16 on local government level programs that would get a jump
- 17 start on benchmarking, or other innovative ways to achieve
- 18 our energy goals.
- 19 And we have some funds that came in. They were
- 20 repaid from the ARRA program, so we have them. And this is
- 21 a repurposing of those to try out some new things that we
- 22 think will yield complementary and better results.
- 23 We are also continuing our efforts to rebuild our
- 24 analytic, our energy analytic process in the Energy
- 25 Assessments Division. And we are seeking six positions to

- 1 improve our game in that area. As a result of deregulation
- 2 some time ago, our capacity in that area was reduced.
- 3 We've been rebuilding it ever since.
- 4 And finally, we are continuing to back up our
- 5 commitment to outreach among the disadvantaged communities
- 6 and seeking a position to help us with implementing our
- 7 programs related to disadvantaged communities, doing public
- 8 outreach and doing some of the assessments and
- 9 recommendations that were provided.
- 10 So with that, any questions on those or other
- 11 items, I'd be happy to answer. But that concludes my
- 12 report.
- 13 CHAIR WEISENMILLER: Thank you.
- 14 Public Adviser?
- MS. MATHEWS: Good afternoon, again. Usually, I
- 16 don't have a lot to report, but with the new year and new
- 17 responsibilities, I have a couple of things that I want to
- 18 share.
- 19 The first is on Monday I had the opportunity to
- 20 attend the 25th anniversary events dealing with Leadership
- 21 California Program. And one of the highlights of that
- 22 event included connecting with the Women's Legislative
- 23 Caucus leadership and staff, who were very excited to learn
- 24 of our outreach efforts to woman-owned businesses, and
- 25 offered various resources to help us be successful in that.

- 1 On Tuesday, I attended the first day of the 2016
- 2 California Workforce Association Conference and I got to
- 3 speak about our Institute on Energy Law and Policy that we
- 4 presented last year. And that's viewed as a model to help
- 5 workforce development agencies connect professional
- 6 partners to meaningful work experience and career
- 7 opportunity exposure.
- 8 So, I also will be presenting a second workshop
- 9 for that conference on Thursday, speaking about how to
- 10 engage disadvantaged and disconnected youth.
- 11 And also on Thursday, I'll be participating in
- 12 the Women's Policy Summit. They have a Pathways to Policy
- 13 event.
- 14 So, if you're wondering why are you doing all of
- 15 those things, it's because I'm really trying to expand the
- 16 network of Californians that we reach to. So, if it deals
- 17 with workforce development, we obviously have two major
- 18 funding programs that can benefit from that.
- 19 And there are just so many people who don't know
- 20 that the Energy Commission exists and the opportunities.
- 21 So, as I am creative, and try to expand my competencies and
- 22 credibility in those different sectors, it will reach the
- 23 objectives identified under AB 865 and our own diversity
- 24 initiatives.
- In addition, I had an opportunity in December to

- 1 go speak to the USDA, Yolo County Office, to farming and
- 2 agricultural stakeholders about funding opportunities. As
- 3 well as I got invited to a Hair Salon event, and they're
- 4 interested in being more sustainable and wanting to know if
- 5 there's any funding opportunities.
- 6 So, I guess I'm being branded as the CEC funding
- 7 opportunity person. But that's fine with me. I'm happy to
- 8 meet with anyone.
- 9 In addition to our outreach for our funding
- 10 opportunities, we've also ramped up our efforts and taken
- 11 on new responsibilities, which is reaching out to the
- 12 public about how to participate in the procedures here, at
- 13 the Energy Commission.
- 14 So at this time, I'm going to ask Shawn Pittard
- 15 to come up. We've created four videos. We have additional
- 16 videos that are coming. But I just wanted him to share a
- 17 little bit more about what we've accomplished so far.
- 18 MR. PITTARD: Hello, good afternoon,
- 19 Commissioners. Hey, Rick.
- 20 Rick and I are going to show you where you can
- 21 find our new videos. So, what we've done is we've produced
- 22 four informational videos to help the public participate in
- 23 our processes.
- 24 And our Media Office has just done a wonderful
- 25 job announcing them on social media, so we're anticipating

- 1 that they'll go viral any moment now.
- 2 (Laughter)
- 3 MR. PITTARD: And so, I'll describe very briefly
- 4 what they're about. So, basically, we chose topics in
- 5 response to frequently asked questions. So, people call us
- 6 and they ask how do we use WebEx? Most often during a
- 7 meeting, you know, while it's going on.
- 8 They call us for help submitting an e-comment.
- 9 And they also want to know how to participate in a Business
- 10 Meeting and, in particular, how to make a public comment in
- 11 person.
- 12 So, we made a little video to kind of take the
- 13 mystery out of it for first timers. So, we produced those
- 14 three videos, plus a fourth called "The Role of the Public
- 15 Adviser", in which we encourage people to call us and we
- 16 let them know how we can help.
- 17 So, Rick will help me show you how to find these
- 18 videos. So, they are on our website. And if you scroll
- 19 down to the right, you can either get them at our Youtube
- 20 page, you can click there, or scroll down to the lower
- 21 corner and to the Public Adviser's web page. So, right
- 22 there, videos on how to participate.
- 23 And you can see that the media has helped us
- 24 create kind of a look for all of these. And Alana Mathews
- 25 is featured in the role of the Public Adviser. Why we

- 1 chose her for the part, I'm not sure. But I guess it was
- 2 just practical.
- 3 (Laughter)
- 4 MR. PITTARD: But we have -- then, we tapped into
- 5 Rick Alexander, who's our WebEx expert, and he helped us
- 6 with how to use WebEx.
- And then, we went to Paul Kramer, who's our Chief
- 8 Hearing Advisor, but he's also the leader of our e-Filing
- 9 Working Group. And so, he was our expert for how to e-
- 10 comment.
- 11 So, since we're in a Business Meeting, we'll just
- 12 show you the first few seconds of how to participate in a
- 13 Business Meeting.
- 14 So, we have this really great animated logo that
- 15 Michael Wilson created, and a big shout out to him. And
- 16 this video features Jeff Ogata, in his final appearance
- 17 before retiring from the Energy Commission.
- 18 So, thank you, Rick.
- MS. MATHEWS: Yeah, we won't play it. We'll just
- 20 ask him to go and find it. But we'll move it along.
- 21 MR. PITTARD: Thank you. Thanks very much, Rick.
- 22 Yeah, so this is -- they're up, you can find them. And we
- 23 want to -- we're very grateful to Albert Lundeen and the
- 24 Media Office. They provided us with tremendous support.
- 25 Especially, Katie Kulkulka. She was invaluable. These

- 1 videos wouldn't exist without her. She was videographer,
- 2 editor, hardware and software troubleshooter. And we did a
- 3 lot of troubleshooting. As well as my collaborator on
- 4 content.
- 5 So, I'll conclude with previews of coming
- 6 attractions. So, the topics that we're going to take on in
- 7 2016 are participating in the power plant siting process,
- 8 participating in the rulemaking process, and the Energy
- 9 Commission funding opportunities.
- 10 So, thank you very much for listening. If you
- 11 have any questions, we'll answer them.
- 12 CHAIR WEISENMILLER: Thank you.
- MS. MATHEWS: And then, finally, I have two
- 14 introductions. I do have an intern from UC Davis. He's a
- 15 Senior in Environmental Policy and Analysis Planning major.
- 16 That is Eric Amenimiya.
- 17 And then, I also have a new volunteer, Demitri
- 18 Godamunne, who is also here. And he will be assisting with
- 19 the AB 865, in the interim, with those particular efforts.
- 20 And he has a BA in Business. So, it's great to have
- 21 someone with financial perspective in the Public Adviser's
- 22 Office. Thank you.
- 23 CHAIR WEISENMILLER: Great, thank you.
- 24 Certainly, welcome aboard, folks.
- So, now, we're at public comment.

- 1 MS. MATHEWS: I'm just going to read their names
- 2 off.
- 3 CHAIR WEISENMILLER: Right.
- 4 MS. MATHEWS: We'll have Anthony Serres -- I'm
- 5 sorry, Alex Boesenberg, then Anthony Serres, and then Alex
- 6 Baker. In that order, right.
- 7 MR. BOESENBERG: Good morning, Madams and Mister
- 8 Commissioners. I'm Alex Boesenberg. I'm the Manager of
- 9 Regulatory Affairs for the National Electrical
- 10 Manufacturers Association.
- 11 And I'm here speaking on behalf of NEMA and our
- 12 several dozen members that are manufacturers of solid state
- 13 lighting, and LED lighting program -- LED lighting
- 14 products, rather.
- So, I'm actually speaking to Item 7, which I know
- 16 is struck, but we are here because we planned to be here
- 17 and we have a few concerns we want to raise, and I have a
- 18 request to make.
- 19 So as I noted, our members are investing heavily
- 20 in LED lighting. It's hundreds of millions of dollars a
- 21 year in research and development.
- 22 And the public side, what everyone sees, is the
- 23 products that make it and the standards that my members,
- 24 and technical papers my members write.
- 25 But there's also the things that don't get

- 1 written down in the standards because they're not ready,
- 2 yet, and there's the products that fail. But all that
- 3 fuels our comments and understanding of the technology, and
- 4 how deeply complex and interwoven performance parameters,
- 5 such as the Commission is seeking to regulate, can be
- 6 intertwined.
- We thank the staff for all the hard work in
- 8 responding to those of our comments in the 45-day language,
- 9 that they did. But would note that there are still dozens
- 10 of comments, both from lighting science industry -- the
- 11 lighting science folks, like IES, but then also industry,
- 12 like NEMA, that did not get answered.
- 13 And I think back to the Title 24 proceedings, and
- 14 45-day language hearing, where I expressed concern that
- 15 because we didn't see the written responses from the staff
- 16 sometimes until after adoption, we could not identify areas
- 17 where the deeply technical issues were not understood by
- 18 the staff. And, thus, an opportunity was missed to improve
- 19 the language.
- 20 So, Commissioner McAllister, I ask again if you
- 21 might consider directing the staff to publish their
- 22 responses to our comments in a timely manner, such that we
- 23 can respond before the closing of the comment period and
- 24 the adoption, so that we can take advantage of any
- 25 opportunities we identify to clarify the staff's

| 1 | understanding | and | improve | the | language. | So | , thank | vou. |
|---|---------------|-----|---------|-----|-----------|----|---------|------|
|   |               |     |         |     |           |    |         |      |

- 2 COMMISSIONER MC ALLISTER: Thanks for being here.
- 3 CHAIR WEISENMILLER: Thanks for being here.
- 4 Next.
- 5 MR. SERRES: Good morning -- good afternoon,
- 6 Chair and Commissioners. My name is Anthony Serres. I'm
- 7 with Philips Lighting.
- 8 In two weeks, you are scheduled to vote on
- 9 revised 15-day language for Title 20. As you may know,
- 10 there were many comments submitted by industry, including
- 11 Philips, in response to that 45-day language.
- We appreciate that some of the comments were
- 13 addressed to the revised 15-day language, but the vast
- 14 majority of comments were summarily dismissed.
- 15 By doing so, you figured out how to get the
- 16 industry's blood pumping.
- 17 Rather than set minimum performance levels for a
- 18 lamp to enter the market, the language sets very aggressive
- 19 targets for color, lamp efficacy, and other metrics. If
- 20 you pass the language as written, California consumers will
- 21 suffer the following consequences. They will only be able
- 22 to buy LED lamps that are more expensive and less efficient
- 23 than lamps which are available in other states.
- 24 Because the current language, for all intents and
- 25 purposes, mandates LED lamps with a nominal CRI of 90.

| 1 | Connected | lamps. | which | is | а | technology | in | its |
|---|-----------|--------|-------|----|---|------------|----|-----|
|   |           |        |       |    |   |            |    |     |

- 2 infancy, offers features to consumers such as color
- 3 changing, tunable white and dimming. And this technology
- 4 will almost disappear from the California market.
- 5 This is ironic in a State synonymous with leading
- 6 edge design and technology.
- 7 The availability of small diameter directional
- 8 LED lamps, decorative LED lamps, and general service LED
- 9 lamps will be reduced as it will be difficult for lamps to
- 10 comply with all of the criteria in the proposed language.
- 11 Not just efficacy, not just CRI, not just light. But when
- 12 you combine them together, it will be more difficult for
- 13 them to comply.
- 14 We are also concerned that the language will
- 15 restrict some small diameter directional halogen lamps that
- 16 are used for emergency egress lighting. This emergency
- 17 egress equipment has very specific lamping requirements.
- 18 And when replacement lamps are not available, businesses
- 19 will be forced to replace the entire equipment, instead of
- 20 just simply changing the lamp.
- 21 We know that you want to keep the train running
- 22 on time. But we believe that these concerns are
- 23 significant and can best be resolved by new 45-day
- 24 language. And ask the Commission to cancel the hearing on
- 25 the 27th and direct staff to revisit these concerns with

- 1 new 45-day language.
- 2 We stand ready to work with the Commission to
- 3 resolve these issues.
- 4 Tomorrow we, along with others in the industry,
- 5 will begin a collaborative process with CEC staff to start
- 6 the 2019 Title 24 rulemaking cycle. It is our hope that
- 7 this new way of working will result in language that
- 8 benefits all involved. Thank you.
- 9 CHAIR WEISENMILLER: Thank you.
- 10 COMMISSIONER MC ALLISTER: Thanks for being here.
- 11 CHAIR WEISENMILLER: Next.
- MR. BAKER: Good morning, Commissioners. My
- 13 name's Alex Baker. I'm the Director of Standards and
- 14 Regulations for Lumileds, which is an LED package
- 15 manufacturer located in San Jose.
- 16 My background is, and I'd like to ask for just a
- 17 few more minutes, maybe five total.
- 18 CHAIR WEISENMILLER: No. No, three minutes.
- 19 You'll be back again, I'm sure, in two weeks, so let's just
- 20 do it. Submit it in writing.
- 21 MR. BAKER: Okay. My background is I managed the
- 22 Energy Star Lighting Program for five years, before joining
- 23 Lumileds in 2012. So, I'm hoping that I can lend some
- 24 advice here.
- To begin, I'd like to thank and applaud the CEC

- 1 for making normative reference to the American National
- 2 Standard for color specifications. Referencing standards
- 3 helps to ensure quality and consistency, and to enable high
- 4 volume cost reductions that will benefit California
- 5 consumers and drive adoption of this energy-saving
- 6 technology.
- 7 This settles the matter of chromaticity.
- 8 However, another troubling aspect of the CEC's color
- 9 specification remains outstanding.
- 10 Lumileds strongly encourages the Commission to
- 11 reevaluate its proposed color rendering requirements and
- 12 offers the following technical guidance.
- 13 The 15-day language includes the terms CRI, RA,
- 14 and R-1 through 8. Lumileds and NEMA have affirmed,
- 15 through our discussions with CEC staff, that these
- 16 notations refer to the color rendering index as
- 17 standardized by the International Commission on
- 18 Illumination, also known as the CIE.
- 19 Title 20 being a regulation that many parties
- 20 will reference for years to come, including foreign
- 21 manufacturers seeking to understand the regulations in the
- 22 State to which they intend to export, it's encumbent upon
- 23 the Energy Commission to make proper, normative reference
- 24 to CIE 13.1, titled "Method of Measurement of Specifying
- 25 Color Rendering Properties of Light Sources".

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- 2 regulation will include undefined, unenforceable
- 3 terminology, which will not withstand legal scrutiny.
- 4 I'm trying to go as guick as I can here. The
- 5 color rendering index --
- 6 CHAIR WEISENMILLER: Well, again, submit in
- 7 writing your comments for the 27th. You don't need to read
- 8 it all now.
- 9 MR. BAKER: I would value a dialogue on this
- 10 topic. The color rendering index is essentially a zero to
- 11 100 product performance score, and which a score of 100
- 12 represents fully optimized performance.
- Published in 1965, the lighting industry, behind
- 14 me, has 50 years' of experience applying this standard.
- 15 On the docket, NEMA members, other manufacturers,
- 16 trade organizations and environmental groups requested that
- 17 the CEC adopt a minimum value of 80, which would fully
- 18 align with the industry norms and practices for designing
- 19 and manufacturing these products.
- It would also leverage the economies of scale
- 21 that manufacturers have been working for years to achieve.
- The CEC staff did not agree and intends to
- 23 regulate a minimum required value of 82, rather than 80.
- 24 From this, we are to infer that the Energy Commission
- 25 believes there's value in these two additional points of

- 1 CRI. That value is not there.
- 2 Technical point number three, assuming the CEC
- 3 staff has reviewed the CIE standard, which they presumably
- 4 intend to reference, we would like to recast the
- 5 Commission's attention to Section 7.2 of that standard,
- 6 which states that the metric, itself, is known to have
- 7 uncertainty of one to three points.
- 8 So, two points is necessarily inside the noise of
- 9 the metric.
- 10 CHAIR WEISENMILLER: Okay, so wrap it up.
- 11 MR. BAKER: There's no statistically significant
- 12 difference between 82 and 80 CRI. And, yet, the CEC would
- 13 have the entire lighting industry completely overturn its
- 14 norms and ways of doing business, and the economies of
- 15 scale that have been achieved specifying a min. 80 CRI.
- 16 CHAIR WEISENMILLER: Okay, thank you.
- 17 COMMISSIONER MC ALLISTER: Please do submit in
- 18 writing. I mean, I think we've heard all of these
- 19 arguments before. And if there's something new, definitely
- 20 want to hear that. But, you know, there's a lot to unpack
- 21 in each of the pieces of this that I think we're very much
- 22 aware of.
- 23 But we really appreciate your being here.
- 24 Certainly, want to encourage staff and you to keep meeting
- 25 and hashing over some of these issues.

- 1 CHAIR WEISENMILLER: Go ahead.
- 2 MR. MC GARAGHAN: Go ahead?
- 3 CHAIR WEISENMILLER: Please go ahead, identify
- 4 yourself and go ahead.
- 5 I'm going to try -- please go ahead, otherwise
- 6 we're going to have to basically adjourn the meeting.
- 7 MR. MC GARAGHAN: I don't know who you're looking
- 8 for comments for. But if you -- when there is an
- 9 opportunity to comment, I have one.
- 10 CHAIR WEISENMILLER: Oh, sure. No, this is a
- 11 public comment time, so if you can identify yourself and
- 12 comment, please.
- MR. MC GARAGHAN: Great, thank you. This is Mike
- 14 McGaraghan. I am with a company called Energy Solutions,
- 15 have done a lot of work over the last several years in the
- 16 area of lighting efficiency, lighting standards, LED
- 17 standards, and LED performance. And appreciate the chance
- 18 to comment today.
- 19 Mostly just want to provide support for the
- 20 Energy Commission and the proposed color standards in Title
- 21 20, which are, I understand, not on the agenda today, but
- 22 are up for adoption on January 27th.
- 23 Despite some of the shortcomings of the CRI
- 24 metric, the California Energy Commission has actually done
- 25 some very interesting and important work here to improve

- 1 color rendering in light sources, particularly in the way
- 2 they set up their standard with minimum performance
- 3 requirements for individual color samples, R-1 through R-8.
- 4 We believe it helps get around some of the shortcomings in
- 5 the CRI standard by requiring improved color in each
- 6 individual sample.
- 7 In particular, the R-8 value is of utmost
- 8 importance. It's the reddish, pink hue that often is
- 9 missing in high-efficiency lighting. It's missing in low
- 10 80's, most low 80's product.
- 11 So the R-8 score, at 72, is a very important
- 12 metric, perhaps the most important in what the Energy
- 13 Commission has done to ensure that consumers, if they are
- 14 going to make that switch to high-efficacy lighting, they
- 15 get a light source that provides adequate color rendering,
- 16 something similar to what they're used to, that is not
- 17 deficient in reds. Reds are really important for rendition
- 18 of skin tones, of fruits and vegetables, wood furniture,
- 19 many things found around the home, distinguishing colors in
- 20 clothing.
- 21 So, we just want to reiterate our support. We
- 22 think the Commission is on the right track and look forward
- 23 to discussing it further on the next time that's set on the
- 24 agenda.
- 25 CHAIR WEISENMILLER: Okay, thank you.

| 1  | Anyone else on the line?                |
|----|---|
| 2  | Okay, then this meeting's adjourned.    |
| 3  | (Whereupon, at 12:35 p.m., the business |
| 4  | meeting was adjourned.)                 |
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## REPORTER'S CERTIFICATE

I do hereby certify that the testimony in the foregoing hearing was taken at the time and

place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 21st day of January, 2016.

PETER PETTY CER\*\*D-493 Notary Public

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I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were transcribed by me, a certified transcriber.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 21st day of January, 2016.

Tobara Stille

Barbara Little
Certified Transcriber
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