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BUSINESS MEETING

BEFORE THE

CALIFORNIA ENERGY COMMISSION

In the	Matter	of:)	16 DIICMEC 01
)	16-BUSMTG-01
Bi	usiness	Meeting)	
)	

CALIFORNIA ENERGY COMMISSION

THE WARREN-ALQUIST STATE ENERGY BUILDING

ART ROSENFELD HEARING ROOM - FIRST FLOOR

1516 NINTH STREET

SACRAMENTO, CALIFORNIA 95814

WEDNESDAY, AUGUST 10, 2016 10:00 A.M.

Reported by: Peter Petty

APPEARANCES

Commissioners

Robert Weisenmiller, Chair David Hochschild Andrew McAllister Janea Scott

Staff Present:

Rob Oglesby, Executive Director Kourtney Vaccaro, Chief Counsel Rosemary Avalos, Public Adviser's Office Cody Goldthrite, Secretariat Chester Hong, Legal Assistant

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Eric Veerkamp Thomas Gates Andre Freeman Adeel Ahmad	3 4 6 7
Rachel Salazar Kevin Mori Brad Williams	8 9 9
Adel Suleiman Diana Gonzalez Rob Oglesby Sylvia Bender	10 11 12 12

Others Present (* Via WebEx)

Interested Parties

Dian Grueneich, Precourt Energy Efficiency 5 Center, Stanford University (PEEC)

Florin High School Students

Felisa Santos	5
Jacky Navarro	5
Karen Avila	5
Anthony Nammavong	5
Ramsses Rodriguez	5

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Florin High School Students (Cont.)

Natasha Jessica Rain Love Laurel Aitken Eric Lam Leo Padilla Yadira Garcia	5 5 5 5 5 5
Greggory Wheatland, Ellison Schneider & Harris	3
Katherine Piper, Calpine Corp., RCEC	3
Heather Arias, CA Air Resources Board	6
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- 2 AUGUST 10, 2016 10:06 a.m.
- 3 CHAIRMAN WEISENMILLER: Good morning. Let's
- 4 start the meeting with the Pledge of Allegiance.
- 5 (Whereupon, the Pledge of Allegiance
- 6 was recited in unison.)
- 7 CHAIR WEISENMILLER: Good morning. In terms of
- 8 the agenda flow, first Item 2 will be held. Second, we're
- 9 going to move Item 5 up and we're actually going to start
- 10 with a resolution, Mr. Hochschild?
- 11 COMMISSIONER HOCHSCHILD: Well, good
- 12 morning and thank you, Chair Weisenmiller. We've
- 13 been really blessed this summer to have the
- 14 inaugural class of Stanford Summer Fellows with us
- 15 and I see Dian Grueneich is here from Stanford. I
- 16 had the opportunity to visit her and her colleagues
- 17 just earlier this week and I just want to say
- 18 personally how gratified I am at how this has played
- 19 out.
- We are only as good as the quality of
- 21 people we can bring in here at the end of the day.
- 22 And that's true for all public agencies and having,
- 23 I think a new very promising pipeline of the top
- 24 talent to come in, get in the trenches of the

- 1 challenge of building a clean energy future is just
- 2 really exciting. I would just say personally having
- 3 a couple of these fellows in my office, the work
- 4 they're doing is exemplary.
- 5 So with that let me read a resolution on
- 6 behalf of the entire Energy Commission for this
- 7 program.
- 8 "Whereas Stanford University is committed
- 9 to helping tackle climate change by integrating the
- 10 best students into California's energy and climate
- 11 public policy discussions through Stanford Energy
- 12 Internships in California and energy-related summer
- 13 internship program for undergraduate and graduate
- 14 students,
- "And whereas Stanford Energy Internships in
- 16 California, which is in its inaugural year, placed
- 17 ten students in California government at the
- 18 California Energy Commission, California Air
- 19 Resources Board and the California Department of
- 20 Water Resources as well as the CAISO,
- 21 "And whereas Stanford Energy Internships in
- 22 California is managed by the Precourt Institute for
- 23 Energy and provides energy-related public service
- 24 internships connecting academic study with public
- 25 service to strengthen communities and develop

- 1 effective public leaders,
- 2 "And whereas, as a partnership between the
- 3 Precourt Institute for Energy, the Bill Lane Center
- 4 for the American West, Stanford In Government -- a
- 5 student-led affiliate for the Haas Center for Public
- 6 Service, the Stanford Energy Internships in
- 7 California Program inspires Stanford University
- 8 students to realize a just and sustainable world
- 9 through service, scholarship and community
- 10 partnerships.
- "And whereas the Energy Commission, the
- 12 State's primary energy policy and planning agency
- 13 provided 2016 public service summer fellowships to
- 14 students Alexandria Smith, Esteban Guerrero, Jeff
- 15 Lin and Terra Weeks,
- 16 "And whereas Alexandria Smith, an intern in
- 17 the office of Energy Commission Chair Bob
- 18 Weisenmiller assisted with the reviewing and editing
- 19 of a number of Energy Commission distributed energy
- 20 resource reports as well as coordination and
- 21 providing assistance to the California Public
- 22 Utilities Commission in More Than Smart Initiative,
- 23 which considers a changing energy sector to a modern
- 24 flexible distributed energy system,
- 25 "And whereas Terra Weeks, an intern in the

- 1 office of Commissioner David Hochschild assisted in
- 2 developing local community renewable strategies and
- 3 provided analysis to improve the award-winning New
- 4 Solar Homes Partnership Program, and assisted with
- 5 stakeholder engagement,
- 6 "And whereas Jeff Lin, an intern in the
- 7 office of Commissioner Andrew McAllister worked on
- 8 the California Clean Energy Jobs Act, also known as
- 9 Prop 39, deploying data analytics to evaluate energy
- 10 consumption at school sites and worked on the 2019
- 11 California Building Energy Efficiency Standards
- 12 analyzing Zero Net Energy features in new
- 13 construction,
- 14 "And whereas Esteban Guerrero, an intern in
- 15 the office of Commissioner Hochschild supported the
- 16 implementation of new laws, regulations and programs
- 17 such as SB 350 in implementation of Governor Brown's
- 18 California Memorandum of Understanding,
- 19 "And whereas Dian Grueneich, Senior
- 20 Research Scholar at Stanford University; Sally
- 21 Benson, Co-Director of the Precourt Institute for
- 22 Energy; Bruce Cain, Director of the Bill Lane Center
- 23 for the American West; and Sunny Wang, Program
- 24 Director for the Precourt Institute for Energy
- 25 helped initiate the Stanford Energy Internships.

- 1 This comes as California aims to reduce its
- 2 greenhouse gas emissions to 80 percent below 1990
- 3 levels by 2015, increase the use of renewable
- 4 energy, reduce petroleum use in cars and trucks and
- 5 double energy efficiency of existing buildings by
- 6 2030.
- 7 "Therefore be it resolved that the Energy
- 8 Commission recognizes and thanks the Stanford Energy
- 9 Internships in California Program."
- 10 (Applause.)
- MS. GRUENEICH: Good morning. I'm
- 12 Dian Grueneich and I just want to, on behalf of
- 13 Stanford, the Precourt Institute for Energy, the
- 14 Bill Lane Center for the West, and our students to
- 15 very much thank you for the resolution. This was
- 16 our inaugural year.
- I want to recognize Commissioner Scott, who
- 18 is a Stanford alumnus as well as Commissioner
- 19 Douglas who is also a Stanford alumnus, but we love
- 20 all the educational institutions in California.
- 21 And our goal was really to help connect the
- 22 students with the real world of what's going on as
- 23 we're marching ahead on clean energy. We will be
- 24 continuing the program. This was the inaugural year
- 25 and we hope that this is just the first of many

- 1 classes to be working with the Energy Commission.
- 2 Thank you. (Applause.)
- 3 COMMISSIONER MCALLISTER: So thanks for
- 4 that, this is a great program. I'm absolutely
- 5 looking forward to having it continue, Jeff Lin in
- 6 my office has done a fabulous job. So thanks, Jeff,
- 7 for all your hard work and quickly -- it's just
- 8 mind-bogglingly fast in getting a handle on data.
- 9 And I guess I'm also hopeful that Stanford
- 10 can also fund a similar program over at Cal.
- 11 (Laughter) Although my wife is a Stanford alumnus
- 12 too, but you know -- right, Chair Weisenmiller?
- 13 CHAIRMAN WEISENMILLER: Yeah. We need
- 14 competition.
- 15 CHAIRMAN WEISENMILLER: Exactly.
- 16 CHAIRMAN WEISENMILLER: We need Cal to
- 17 decide to send more interns here than Stanford.
- 18 CHAIRMAN WEISENMILLER: Yeah. In any case
- 19 obviously very supportive in continuing, and thanks
- 20 David, for your leadership on this as well. So
- 21 let's -- are we going to have some photos? Yeah,
- 22 great, all right.
- 23 MS. GRUENEICH: We do want to post it on
- 24 the website to continue the program, so a photo
- 25 would be great.

- 1 COMMISSIONER HOCHSCHILD: If we could
- 2 invite all the Stanford fellows to come up here
- 3 we'll do a photo together right in front of the
- 4 dais.
- 5 (Stanford Group photos taken.)
- 6 COMMISSIONER HOCHSCHILD: And Dian, just to
- 7 be clear when I was talking about promising young
- 8 leaders I'm including you in that group.
- 9 COMMISSIONER MCCALLISTER: Yeah, as an
- 10 annuitant maybe, yeah that'd be great.
- 11 CHAIRMAN WEISENMILLER: Okay. Now, let's
- 12 follow on that with Item 5.
- 13 Commissioner Scott, do you want to set this
- 14 up?
- 15 COMMISSIONER SCOTT: Yes.
- 16 Well, following the theme of bringing
- 17 excellent students into the Energy Commission for a
- 18 summer internship, I'd really like to take a moment
- 19 this morning to welcome the students from the Florin
- 20 High School Law Academy. These young men and women
- 21 spent two weeks this summer learning from, and
- 22 working with Energy Commission staff, as part of the
- 23 Energy Commission's Summer Institute in Energy Law
- 24 and Policy. The Summer Institute provides high
- 25 school students an opportunity to learn about

- 1 California's energy policies and laws and potential
- 2 career opportunities in the energy field.
- 3 We would like to acknowledge the teachers
- 4 from the Florin High School Law Academy that
- 5 participated in the Summer Institute: Carlos Garcia
- 6 and Benny Rich. So maybe you guys can wave, so
- 7 folks can see you. Thank you, so much. Your
- 8 leadership and dedication to these students is
- 9 highly commended, very laudable. We appreciate you
- 10 bringing them over to us each day this summer.
- 11 I'd also like to acknowledge the Energy
- 12 Commission's Public Adviser, Alana Mathews, who
- 13 organized the Summer Institute and hosted the
- 14 students during their time here at the Commission.
- 15 So a big thanks to Alana as well.
- 16 So this morning, the students would like to
- 17 give a presentation about what they learned during
- 18 their two weeks and how they plan to apply those
- 19 lessons at their school and within their community,
- 20 so welcome students. And we will kick off your
- 21 presentation.
- 22 CHAIRMAN WEISENMILLER: Please. Please
- 23 come up.
- MS. SANTOS: Good morning, Chair and
- 25 Commissioners, my name is Felisa Santos.

- 1 As you may all know we are from Florin High
- 2 School located in South Sacramento. Being in South
- 3 Sacramento we are all part of a disadvantaged
- 4 community. All of us joined this institute to
- 5 educate ourselves and others on matters such as
- 6 energy efficiency and how it affects disadvantaged
- 7 communities such as ours. All of us here today are
- 8 seniors, part of the law academy. Our law academy
- 9 is only one of a dozen that is an official partner
- 10 of the California State Bar Association.
- 11 Today we will be presenting what we have
- 12 experienced and learned here. As we enter this
- 13 program we are presented with SB 350. Today, we
- 14 will be presenting what the bill is, the barriers
- 15 that are presented in disadvantaged communities, how
- 16 we can overcome those barriers and last, but not
- 17 least, the Instagram Campaign Senate Bill 350.
- 18 MS. NAVARRO: My name is Jacky Navarro and
- 19 this summer we gained many opportunities and
- 20 advantages by this program. We came across many
- 21 inspiring people here and they educated us on how
- 22 meaningful it is to be efficient and conservative
- 23 towards our energy.
- 24 Also from this internship we valued all of
- 25 the advice we got from everybody. But we also noted

- 1 how passionate you all are for California and we
- 2 really appreciate that.
- This program led us to discover new ways to
- 4 better the environment, so that in the future we can
- 5 have cleaner energy and less pollution.
- 6 MS. AVILA: My name is Karen Avila. And
- 7 throughout California's history we've relied on
- 8 nonrenewable power sources like coal and it's
- 9 produced greenhouse gases and contributed to climate
- 10 change and global warming.
- 11 And moving on to what we learned about
- 12 renewable energy that includes solar, wind,
- 13 geothermal, biomass and hydropower. And then unlike
- 14 nonrenewable energy, renewable energy is replenished
- 15 naturally meaning it could be used multiple times
- 16 and doesn't give out nasty gases like nonrenewable
- 17 energy does.
- 18 And some drawbacks is it does start up very
- 19 costly, and sometimes it may leave out disadvantaged
- 20 communities like ours. And depending on location
- 21 natural elements might not be provided.
- 22 But some benefits is that it does save a
- 23 lot of money in the long run compared to what you'd
- 24 be spending without nonrenewable energy.
- 25 Less fossil fuels are being burned, that

- 1 means lower greenhouse gases, climate change and
- 2 overall it's a very clean energy.
- 3 MR. NAMMAVONG: My name is Anthony
- 4 Nammavong.
- 5 As of right now California is using 25
- 6 percent renewable energy. For California our goal
- 7 for the future is by 2020 California must be running
- 8 on 33 percent renewable energy and have all
- 9 residential buildings be Zero Net Energy. By 2030,
- 10 we must be running on 50 percent energy and have all
- 11 new commercial buildings by 2030 be Zero Net Energy.
- Our future depends on these goals and if we
- 13 don't reach 50 percent by 2030 then the future will
- 14 be unpredictable. The climate and the lives of our
- 15 future children will be unpredictable. There's
- 16 about 40 million people who live in California that
- 17 will be affected some way, somehow.
- 18 If you think it's hot right now then
- 19 imagine how hot global warming will be in the
- 20 future. That's why it's important for us to reach
- 21 our goals and go beyond that.
- MR. RODRIGUEZ: Good morning. My name is
- 23 Ramsses Rodriguez.
- 24 Barriers towards renewables: so barriers,
- 25 we all have them and they're blocking our path

- 1 toward success, and they're also in the way of
- 2 renewables. Some barriers prevent disadvantaged
- 3 communities from participation in renewables. And
- 4 these barriers are divided into two parts, business
- 5 and household.
- 6 So the three issues for small businesses
- 7 are financial restraint, lack of proper permitting
- 8 and lack of information. Getting to renewable
- 9 energy is too expensive for small businesses in
- 10 disadvantaged communities. Some small businesses
- 11 are run by people without the proper permits to be
- 12 even running a business.
- 13 Small business owners are often unaware of
- 14 where their electricity comes from. They simply
- 15 just pay the bill and move on with their lives.
- 16 They may lack information about renewables, the
- 17 money that they could potentially be saving,
- 18 California's Clean Energy Advancement, and how much
- 19 they'd be helping the environment by making the
- 20 switch.
- 21 Without this knowledge how are they
- 22 supposed to make the switch?
- NATASHA: Good morning. My name is
- 24 Natasha. And there are four barriers that low-
- 25 income households face and which prevents people to

- 1 become energy efficient: language barrier, lack of
- 2 information, low income and apathy.
- 3 Language barrier: In our country there are
- 4 a lot of people from different countries and they
- 5 speak different languages. And this makes it hard
- 6 for us to explain what renewables are.
- 7 Lack of information: Many consumers are
- 8 unaware of the importance of being energy efficient.
- 9 Since they don't know, they aren't looking into
- 10 renewables and weatherization. (phonetic)
- 11 Low Income: Because of the poverty people
- 12 are unable to purchase renewables.
- 13 Apathy: Some people are unconcerned with
- 14 environment and energy efficiency and this is why
- 15 they aren't interested in renewable energy. So it
- 16 is also important for us to motivate and educate
- 17 them to become partners in California's renewable
- 18 energy future.
- 19 So we can see the connection between these
- 20 barriers. If people don't understand our languages,
- 21 they don't have proper information. And if they
- 22 don't have the proper information they don't have
- 23 apathy averted. Thank you.
- 24 MS. LOVE: My name is Jessica Love. And
- 25 I'm going to be talking about overcoming barriers

- 1 for small businesses.
- 2 And the first barrier that I wanted to talk
- 3 about was lack of information. And in order to
- 4 overcome this barrier we kind of want to introduce
- 5 small businesses to the world of electricity,
- 6 because as was previously mentioned, a lot of small
- 7 businesses don't know where their electricity is
- 8 coming from. They simply just pay the bill and move
- 9 on.
- 10 And with talking about where their
- 11 electricity comes from we need to slowly introduce
- 12 the idea of renewables and talk about the money-
- 13 saving potential. Because there are small
- 14 businesses, they probably don't have a lot of money
- 15 and they aren't completely willing to invest this
- 16 money into something as expensive as renewable
- 17 energy.
- 18 We also want to put a lot of emphasis on
- 19 the long-term benefits, just because again trying to
- 20 convince them to actually want to put the money
- 21 forward to get into renewable energy. And lastly,
- 22 you want to create a long-term plan with the
- 23 business owners.
- The second barrier posed for small
- 25 businesses with renewable energy are legal issues.

- 1 And what we need to do to encourage these businesses
- 2 to get into renewable energy is to encourage them to
- 3 get legal help, so they can get proper permitting,
- 4 so that they can get into renewable energy. We also
- 5 want to provide resources for them to get that help
- 6 in case they don't have the information of where to
- 7 get the help. And we also want to put a lot of
- 8 emphasis on the future to further convince them to
- 9 get the help.
- 10 And the final barrier for small businesses
- 11 are financial issues. So we want to place a lot of
- 12 emphasis on lower start-up costs for small
- 13 businesses. And also talk about the money saving
- 14 potential, because again not willing to make the
- 15 investment, because of the fact that they don't have
- 16 a lot of money already.
- 17 You also want to talk about the future and
- 18 tell them they don't want to be left behind in
- 19 California's advancement in renewable energy. And
- 20 we also want to talk about the spread of renewable
- 21 energy in their community, but also in California.
- 22 You want to talk about loans, because they
- 23 have access to loans, and just try to get them
- 24 access to the information, so that they know where
- 25 to get the loans from. And as well as the idea that

- 1 these changes will pay for themselves over time.
- MS. ATTKEN: My name is Laurel Attken.
- 3 I'll be talking about how we can bridge the gap
- 4 between low-income households and being energy
- 5 efficient, because I think it's really important
- 6 that we acknowledge that though there are federal
- 7 weatherization programs. They look only at income
- 8 as a factor of eligibility when I think that we need
- 9 to be looking at the communities themselves and the
- 10 accumulated disadvantage that they have.
- 11 So in order to create equity I think that
- 12 we need to look at the air quality of communities,
- 13 the average income, the amount of people working
- 14 minimum wage jobs, and also just the concentration
- 15 of minorities, because the least energy-efficient
- 16 areas, and the areas with the most pollution, tend
- 17 to be low-income areas with a high concentration of
- 18 minorities.
- 19 And lastly, we need to look at the age of
- 20 buildings, because older buildings are a lot less
- 21 energy efficient than newer buildings, due to
- 22 different code changes.
- 23 Then there's lack of information, which is
- 24 a really big problem, because it encompasses both
- 25 apathy as well as language barriers. If you don't

- 1 have a lot of money and you think that being energy
- 2 efficient can be expensive, then you don't really
- 3 care. And then if you don't speak the language
- 4 obviously you can't get the information.
- 5 So we need to be asking ourselves how do we
- 6 provide this information in a way that is accessible
- 7 and easy to understand. And in order to do that, we
- 8 need to reach out to communities and work with
- 9 community outreach organizations. It was even
- 10 suggested that there be community barbecues that
- 11 people can go to just to get this information.
- 12 Then we need to put these meetings in other
- 13 languages, so people can understand it. As well as
- 14 schedule it around their work hours, because they're
- 15 working minimum-wage jobs and they're working long
- 16 hours. And we need to take their lives into
- 17 consideration, so they can get this information.
- 18 And of course lastly, we need to include
- 19 information that they may qualify for -- for
- 20 programs they may qualify for.
- 21 MR. LAM: Good morning. My name is Eric
- 22 Lam. So with the information we gathered during our
- 23 two-week stay at the Energy Commission, there are a
- 24 few things we're going to do for the future.
- We want to inform the students and staff at

- 1 Florin High School and the community around us about
- 2 energy efficiency and renewable energy. We want to
- 3 tap into Prop 39 in order to help pay for
- 4 accessibility and installation of solar roof panels
- 5 at Florin High. Having this will enable our school
- 6 to become more energy efficient and make use of
- 7 renewable energy.
- 8 We also want to implement an electric
- 9 vehicle charging station at our school for teachers
- 10 and students to use during their stay. This will
- 11 prove to our community and the ones around us that
- 12 we're serious about changing the environment for the
- 13 better.
- 14 Lastly, we want to purchase an electric
- 15 vehicle kit for our school's automotive program.
- 16 Doing this will set a standard and push other
- 17 schools to do the same. Not only are electric
- 18 vehicles friendly to the environment, the process
- 19 the students go through to build them will empower
- 20 the skills and training to pursue rewarding careers
- 21 in electric vehicle technology.
- MR. PADILLA: Good morning. My name is Leo
- 23 Padilla. I'm really excited to announce our
- 24 Instagram Campaign. Everybody should all follow us
- 25 at Senate Bill 350.

- 1 We also recommend you to use our hashtag,
- 2 we are 350. Our main goal is to grab the attention
- 3 of formerly uninterested individuals as well as
- 4 reach out to our younger demographic. It will
- 5 benefit Section 7 of SB 350 of access to renewable
- 6 energy in disadvantaged communities.
- 7 And lastly it informs diverse communities
- 8 about our 2020 and 2030 goals.
- 9 MS. GARCIA: Good morning. My name is
- 10 Yadira Garcia. An idea we had to post on the
- 11 Instagram page was to encourage people to have power
- 12 strips in their homes. Some of these power strips
- 13 have a master device setting, which allows you to
- 14 set a timer on the power strip to automatically turn
- 15 itself off along with everything that it is
- 16 connected to. This may be a small task to do, but
- 17 as Leo was mentioning, the purpose of the page is to
- 18 reach out to uninterested individuals and inform
- 19 them about things they could do to be more energy
- 20 efficient.
- 21 On behalf of Florin High Law Academy we'd
- 22 like to especially thank Alana Mathews and her
- 23 student interns Adriana, Jocelyn and Julia.
- 24 Additionally, we'd like to express our gratitude to
- 25 the Commissioners, guest speakers, along with

- 1 everyone in the Energy Commission, who has given us
- 2 this opportunity to learn about energy and share the
- 3 passions inspiring us to take charge of the future
- 4 of California's energy and climate. Thank you.
- 5 And we would be happy to answer any
- 6 questions you might have for us.
- 7 COMMISSIONER SCOTT: Thank you very much
- 8 for that excellent presentation.
- 9 (Applause.)
- I don't have any questions, do you all have
- 11 questions?
- 12 (No audible response.)
- We would love to take a photo with all of
- 14 you though, so if you'll come up front just like we
- 15 did a minute ago, we'll get some pictures.
- 16 CHAIRMAN WEISENMILLER: The faculty too.
- 17 COMMISSIONER SCOTT: What, yes, of course,
- 18 and your teachers should come up too, please.
- 19 (Florin High School Law Academy photos taken.)
- 20 (Applause.)
- 21 COMMISSIONER MCALLISTER: So I will get a
- 22 couple of disclosures out of the way.
- 23 Let's see, UC Davis is involved in Item 1b
- 24 as a subcontractor and as the prime on Item 9a. And
- 25 my wife is a professor at the UC Davis Law School,

- 1 King Hall, so I'm just disclosing that. There is no
- 2 conflict here, so I'm not recusing.
- 3 CHAIRMAN WEISENMILLER: Okay. Do we have a
- 4 motion on the Consent Calendar?
- 5 COMMISSIONER SCOTT: I move Consent
- 6 Calendar.
- 7 COMMISSIONER MCALLISTER: I second.
- 8 CHAIRMAN WEISENMILLER: All those in favor?
- 9 (Ayes.)
- 10 CHAIRMAN WEISENMILLER: So it's 4-0.
- 11 Commissioner Douglas is absent today.
- 12 So let's go on to Item Number 3, Russell
- 13 City Energy Center, staff?
- MR. VEERCAMP: Good morning Mr. Chair,
- 15 Commissioners. My name is Eric Veerkamp and I'm the
- 16 Compliance Project Manager for the Russell City
- 17 Energy Center. I believe we have representatives
- 18 from the project owner here in the room as well.
- 19 The Petition to Amend, submitted by the
- 20 Russell City Energy Company, LLC requests that the
- 21 Energy Commission approve the installation of a new
- 22 demineralization system designed to produce
- 23 demineralized water from the recycled water supply,
- 24 which would be used for steam cycle makeup water and
- 25 combustion turbine inlet air cooling.

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- 2 system would include new filtration skids and Feed
- 3 water tanks installed within a new enclosure. The
- 4 system would include structures that are
- 5 approximately 10 to 15-feet tall and would be
- 6 located within the existing Russell City site.
- 7 The request is anticipated to address shortcomings
- 8 in the zero liquid discharge system that were
- 9 unanticipated during project licensing, that have
- 10 led to water chemistry disruptions, resulting in an
- 11 unacceptable number of forced outages.
- 12 Staff reviewed the petition for potential
- 13 environmental effects and consistency with
- 14 applicable laws, ordinances, regulations and
- 15 standards and has determined that the proposed
- 16 changes would not cause significant impacts on the
- 17 environment or cause the project to not comply with
- 18 applicable LORS.
- 19 For the technical area of geology and
- 20 paleontology, staff proposes a new Condition of
- 21 Certification GEO-3, and the elimination of GEO-1
- 22 and GEO-2. LORS have been updated since Russell
- 23 City was certified in 2002, so the changes to the
- 24 Conditions and Certification would ensure use of the
- 25 most recent version of the California Building Code.

- 1 A notice of receipt was mailed to the
- 2 project post-certification mail list, docketed, and
- 3 posted to the web on February 5th, of 2016. Staff's
- 4 analysis was docketed on July 15th, 2016 and it was
- 5 mailed to the project post-certification list on
- 6 July 18th.
- 7 One public comment from Mr. Charlie Cameron
- 8 was docketed yesterday afternoon August 9th, that I
- 9 would like to address with you shortly. However
- 10 staff does recommend the Energy Commission approve
- 11 the request to install a recycled water
- 12 demineralization system at the Russell City Energy
- 13 Center.
- 14 So regarding the comment that we received
- 15 yesterday, I have gone through that. And I've
- 16 talked with our technical staff about it and I have
- 17 been in discussions with the project owner. And as
- 18 best we can tell, it is a handwritten comment on our
- 19 document. The individual appears to be neutral on
- 20 the project, although they do highlight a concern
- 21 about public transit, particularly traffic and
- 22 transportation, public transit, a bus line. However
- 23 this project would not impact public transit.
- 24 If there was a phone number or an email I
- 25 would have attempted to contact the individual

- 1 already, but unfortunately there is not. I don't
- 2 think they have called in.
- 3 So if you have any questions about that, as
- 4 I said we do have a representative from the project
- 5 owner. I would also be happy to answer any
- 6 questions you might have. And that concludes my
- 7 presentation.
- 8 CHAIRMAN WEISENMILLER: Thank you.
- 9 Project Owner?
- MR. WHEATLAND: Good morning, I'm Gregg
- 11 Wheatland, outside Counsel for Calpine. And with me
- 12 this morning is Katherine Piper, Senior Counsel for
- 13 Calpine.
- 14 We'd like to thank the staff for its
- 15 recommendation and we support the recommendation, of
- 16 course. We are here and available to answer any
- 17 questions you may have.
- 18 CHAIRMAN WEISENMILLER: Thank you.
- 19 Anyone in the room or on the phone that has
- 20 comments on this?
- 21 (No audible response.)
- Then let's transition to the Commissioners.
- 23 With Commissioner Douglas absent, I'm going to just
- 24 say a few words, which is that obviously when the
- 25 staff reviews the amendments the question is the

- 1 environmental impact to the extent you've done the
- 2 analysis. And have concluded this indeed complies
- 3 with the intent of the conditions and does it in an
- 4 acceptable way.
- 5 And at that point, we accept those, so with
- 6 that I'm looking for a motion unless anyone has any
- 7 comments?
- 8 COMMISSIONER MCALLISTER: Any comments?
- 9 (No audible response.)
- 10 All right, I'll move Item 3.
- 11 COMMISSIONER SCOTT: Second
- 12 CHAIRMAN WEISENMILLER: All those in favor?
- 13 (Ayes.)
- 14 CHAIRMAN WEISENMILLER: This also passes 4-
- 15 0. Thank you.
- MR. WHEATLAND: Thank you
- MS. PIPER: Thank you.
- 18 CHAIRMAN WEISENMILLER: Let's go on to Item
- 19 Number 4, the CSU's Chico Research Foundation, Tom
- 20 Gates?
- 21 MR. GATES: Good morning. My name is
- 22 Thomas Gates. I'm the Supervisor of the Cultural
- 23 Resources Unit of the Siting Transmission and
- 24 Environmental Protection Division.
- 25 The Genesis Solar Energy Project sited in

- 1 the Chuckawalla Valley, Riverside County, was
- 2 licensed in September 2010. During project
- 3 construction in 2011 an archeological site discovery
- 4 was made by cultural resources and Native American
- 5 project monitors and it was determined that site
- 6 avoidance was not feasible. And therefore the
- 7 ensuing damage to the archeological site was
- 8 mitigated through compensation.
- 9 The mitigation package was negotiated among
- 10 the project owner, the Bureau of Land Management,
- 11 and the California Energy Commission and in
- 12 consultation with 16 culturally-affiliated tribes.
- 13 The mitigation package, totaling \$3.04 million
- 14 involved three broad categories of compensatory
- 15 mitigation activities: archeological, ethnographic
- 16 and public outreach.
- 17 It was also agreed between the two
- 18 licensing agencies that the archeological mitigation
- 19 would be overseen by both agencies, that
- 20 ethnographic mitigation would be overseen by the
- 21 Bureau of Land Management, and that the Energy
- 22 Commission would oversee the public outreach
- 23 mitigation.
- 24 Tribes were included in the mitigation
- 25 negotiation and implementation via a tribal working

- 1 group that met on a quarterly basis and deliberated
- 2 on the three categories of mitigation, and
- 3 particularly the public outreach component.
- 4 As the various public outreach mitigation
- 5 pieces moved towards completion two pieces
- 6 languished. As a result of the tribal agency
- 7 working group deliberations the languishing
- 8 mitigations were transferred to the Energy
- 9 Commission via an Energy Commission and NextEra set
- 10 of correspondences. Funds were transferred from
- 11 NextEra to the Energy Commission in November 2015.
- 12 With the majority of the various mitigation
- 13 pieces completed, this contract would the public
- 14 outreach mitigation further towards completion by
- 15 providing the public with a public broadcasting
- 16 quality video that explores the issues related to
- 17 archeological investigation, the curation of
- 18 thousands of artifacts that provide insights to
- 19 tribal life ways in the desert environment. And the
- 20 tribal values placed upon those artifacts.
- 21 Staff requests that the Commission pass the
- 22 proposed resolution approving Agreement 700-16-002
- 23 with the CSU, Chico Research Foundation for a
- 24 \$75,000 contract to produce a 26-minute documentary,
- 25 highlighting the rich pre-history of the Ford Dry

- 1 Lake area. That concludes my presentation and I'm
- 2 available for questions.
- 3 CHAIRMAN WEISENMILLER: Okay. Thank you.
- 4 First, any comments from anyone in the room
- 5 or on the phone?
- 6 (No audible response.)
- 7 No, okay then again we'll have a discussion
- 8 among the Commissioners.
- 9 Actually, I was on the Genesis Project
- 10 initially on that case. And certainly there was
- 11 always a concern on the cultural resources, so a
- 12 fear we'd run into something. And I think certainly
- 13 it's a good idea to sort of document what was there
- 14 for posterity. So with that, I'll go on to see if
- 15 any of the other Commissioners have comments?
- 16 (No audible response.)
- I also need a motion?
- 18 COMMISSIONER SCOTT: I move approval of
- 19 Item 4.
- 20 COMMISSIONER MCALLISTER: I'll second
- 21 CHAIRMAN WEISENMILLER: All those in favor?
- 22 (Ayes.)
- 23 CHAIRMAN WEISENMILLER: So Item 4 passes,
- 24 4-0. Thank you.
- MR. GATES: Thank you.

- 1 CHAIRMAN WEISENMILLER: We've already
- 2 covered Item 5, so let's go on to Item 6, California
- 3 Sustainable Freight Action Plan.
- 4 MR. FREEMAN: So good morning,
- 5 Commissioners. My name is Andre Freeman from the
- 6 California Energy Commission Fuels and
- 7 Transportation Division. Today, I'm going to give
- 8 an overview of the California Sustainable Freight
- 9 Action Plan that has just been released to the
- 10 public.
- I didn't know, Commissioner Scott, did you
- 12 want to say a few words before I got started with
- 13 the presentation?
- 14 COMMISSIONER SCOTT: I'll let you get going
- 15 and then I'll add in at the end.
- MR. FREEMAN: Okay. Thank you.
- 17 So this effort was initiated by Governor
- 18 Brown's Executive Order in July of 2015, which
- 19 directed the Secretaries of the Natural Resources,
- 20 Transportation and Environmental Protection Agencies
- 21 to lead the California Energy Commission, Air
- 22 Resources Board, Caltrans and Governor's Office of
- 23 Business and Economic Development, in developing an
- 24 action plan that would lay out the steps California
- 25 can take to improve overall system efficiency of the

- 1 freight sector, accelerate transition to zero
- 2 emission technologies, and increase the economic
- 3 competitiveness of California's freight sector as a
- 4 whole.
- 5 With such a broad-reaching scope for this
- 6 plan it was essential to convene stakeholder work
- 7 groups to advise the state agencies on these topics.
- 8 Through this process staff has hosted and
- 9 participated in outreach events throughout the State
- 10 that brought together stakeholders representing
- 11 industry and business groups, community groups,
- 12 environmental justice advocates, regional planning
- 13 entities, academia, technology providers and many
- 14 other interested parties.
- 15 After gathering extensive information from
- 16 these groups several iterations of the plan were
- 17 developed and the structure of the plan was
- 18 established to address the areas of highest
- 19 importance that were identified.
- 20 I will go into detail on each of these
- 21 sections, but in general the plan sought to identify
- 22 where we are today, where we would like to go, the
- 23 challenges and opportunities that we will come
- 24 across, and how the State will strategically move
- 25 forward to achieve our goals.

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- 2 freight describes the important considerations for
- 3 transitioning to a sustainable freight system and
- 4 tries to embody the mission that was established
- 5 through the Executive Order.
- 6 As we drill down into how to reach the
- 7 vision for sustainable freight, quiding principles
- 8 were established to highlight the breadth of
- 9 concerns that need to be addressed when looking at
- 10 the freight system. These principles will also be
- 11 used to prioritize State resources that will support
- 12 the actions that are necessarily to achieve the
- 13 sustainable freight vision.
- 14 Per the Executive Order's direction the
- 15 State agencies established targets for these three
- 16 areas. An efficiency target of 25 percent was
- 17 established to indicate overall state-wide success
- 18 towards the goal of improving freight transport
- 19 system efficiency while simultaneously reducing
- 20 greenhouse gas emissions. Success in this area will
- 21 be measured not only by this metric, but also by
- 22 statics on throughput, reliability, speed and delay
- 23 reduction of freight moving throughout the State.
- 24 Zero emission technology goal was
- 25 established to both identify a goal for zero

- 1 emission vehicle and equipment deployment as well as
- 2 acknowledge the need for near-zero emission
- 3 transmission technologies for certain applications.
- 4 The state agencies will be focused on promoting
- 5 these advanced technologies, where technologically
- 6 and economically feasible.
- 7 The economic target has been established to
- 8 highlight the need for economic analysis and
- 9 consideration of the importance of the freight
- 10 sector when state agencies develop new policies,
- 11 regulations, funding opportunities that may impact
- 12 this sector and any other opportunities to promote
- 13 the economy in this important portion of
- 14 California's overall economy.
- So how do we achieve these targets? We do
- 16 that through real world activities, activities which
- 17 will require financial support through public and
- 18 private partnerships. The Action Plan expresses the
- 19 need to coordinate and leverage investments from the
- 20 private sector and investments at the Federal, state
- 21 and local levels to make this vision a reality.
- 22 To further flesh out real world projects to
- 23 help achieve the vision, stakeholders were provided
- 24 an opportunity to submit specific concepts that they
- 25 would like to see funded in the future that tie to

- 1 sustainable freight vision. Staff received over 50
- 2 comments that could represent sustainable freight
- 3 projects throughout California. This slide shows
- 4 three projects that were included as representative
- 5 examples of project concepts that could be
- 6 implemented later in the years.
- 7 Although there was no funding directly
- 8 allocated to the Sustainable Freight Action Plan, a
- 9 large majority of the pilot project concepts that
- 10 were submitted fall in line with the missions of
- 11 existing funding programs. Energy Commission staff
- 12 have already begun utilizing information gathered
- 13 through this effort to advise our freight-related
- 14 funding efforts.
- 15 The Action Plan also identified additional
- 16 higher level discussion concept activities that can
- 17 support sustainable freight goals. As you can see
- 18 here, it references a wide variety of activities,
- 19 some of which are likely to be included in proposals
- 20 for Energy Commission funding opportunities.
- 21 A major part of the Action Plan was not
- 22 only to talk conceptually about where we want to go
- 23 and how to get there, but also to identify specific
- 24 implementation steps that will be undertaken by each
- 25 agency. These nine action item categories summarize

- 1 the numerous implementation steps that will follow
- 2 over the coming years. The Action Plan includes a
- 3 list of more than 70 individual implementation steps
- 4 and staff reviews the sustainable freight outreach
- 5 opportunities to let interested parties know how
- 6 they can be more involved with each of those
- 7 efforts.
- 8 Focusing on Energy Commission actions,
- 9 staff will take the information provided through the
- 10 Sustainable Freight Action Plan and integrate it
- 11 into the research and development, demonstration,
- 12 and other funding activities that will support zero
- 13 and near zero emission technologies. Also,
- 14 renewable fuels production and renewable energy
- 15 generation that will support the plug-in vehicles
- 16 that are being deployed in this sector.
- 17 This plan will also support the ongoing
- 18 transportation and energy planning efforts that the
- 19 Energy Commission and Public Utility Commissions are
- 20 working on, and also highlighted the need for
- 21 expanding our outreach and education efforts to get
- 22 more parties that are interested in this involved.
- We will not be engaging in these activities
- 24 alone. The expanded freight sector stakeholder
- 25 group that has been established through this effort,

- 1 will play a major role in quiding and implementing
- 2 the actions that we need to move the freight sector
- 3 forward.
- 4 Although the Action Plan is now done, the
- 5 effort will continue. This slide shows the major
- 6 time points where the interagency team of state
- 7 agencies will provide updates on the implementation
- 8 of the Action Plan. As the process evolves, the
- 9 schedule may change, but we want to remind
- 10 stakeholders that this is an iterative process and
- 11 their continued participation in this effort is
- 12 crucial.
- 13 With that, I'm available to take any
- 14 questions. And we also have representatives from
- 15 Caltrans, the Air Resources Board, and the
- 16 Governor's Office of Business and Economic
- 17 Development able to answer your questions as well.
- 18 CHAIRMAN WEISENMILLER: First, I want to
- 19 ask if any of the other state agencies want to say a
- 20 few words about this, particularly the Air Board?
- 21 MS. ARIAS: Good morning, Commissioners.
- 22 My name is Heather Arias from the Air Resources
- 23 Board.
- I don't have any formal remarks, but I do
- 25 want to just reiterate that we from the Air

- 1 Resources Board look at this as a great opportunity
- 2 to continue and expand on the successful partnership
- 3 that our agencies have already built. And we really
- 4 appreciate the effort that the Energy Commission has
- 5 put forward, along with our agency and the others,
- 6 to really help set us up as a State to be in a
- 7 situation where we can reach the sustainable freight
- 8 system. We all believe, as I know you do, that we
- 9 can have our environmental and economic objectives
- 10 met.
- 11 And certainly the work that you do here is
- 12 extremely critical and crucial for that success. So
- 13 we look forward to continuing moving forward with
- 14 you and appreciate the partnership that is going to
- 15 continue on.
- 16 CHAIRMAN WEISENMILLER: Great. Thank you.
- GO-Biz, please?
- MR. RAMIREZ: Good morning, Frank Ramirez
- 19 with the Governor's Office of Business and Economic
- 20 Development.
- 21 As Andre pointed out we don't have a
- 22 quantitative metric for improving the
- 23 competitiveness of the freight system yet. That's
- 24 one of the actions involved in the Action Plan.
- 25 We're going to be convening a work group of agencies

- 1 and private sector folks, and other academic folks
- 2 to try to come up with the silver bullet of how we
- 3 increase the economic competitiveness of the freight
- 4 industry.
- 5 And we look forward to your participation
- 6 and support as well as your staff and I do want to
- 7 thank your staff, Andre in particular, for being
- 8 involved in this process. So far he's been a very
- 9 big help. Thank you very much and we look forward
- 10 to working with you.
- 11 CHAIRMAN WEISENMILLER: Great. And
- 12 certainly send my regards to Mike Rossi.
- MR. RAMIREZ: Absolutely. I will.
- 14 CHAIRMAN WEISENMILLER: I appreciate his
- 15 involvement in this effort here.
- 16 As you know, the goods movement is about --
- 17 I've heard anywhere from 20 to 30 percent of the
- 18 economy in the Los Angeles Basin -- and it's also
- 19 (indiscernible) directed by, I forgot to say,
- 20 probably a very, very high percentage of the
- 21 pollutants in Los Angeles Basin. So trying to come
- 22 up with a way to deal with that nexus of maintaining
- 23 the economic competitiveness there, but doing it in
- 24 a more sustainable fashion is really critical for
- 25 California's future.

- 1 MR. RAMIREZ: Absolutely. I will pass
- 2 along your regards to Mr. Rossi.
- 3 CHAIRMAN WEISENMILLER: Great.
- 4 And I guess we have Caltrans on the phone.
- 5 Please, do you want to say a few words and identify
- 6 yourself? Thanks.
- 7 MR. SCHMIDT: Hi this is --
- 8 CHAIRMAN WEISENMILLER: Uh-oh, we lost you.
- 9 Try again?
- MR. SCHMIDT: Hi. This is Chris Schmidt
- 11 from Caltrans; can you hear me?
- 12 CHAIRMAN WEISENMILLER: Yes.
- MR. SCHMIDT: Thank you.
- 14 I just want to reiterate what my partners
- 15 have said in their remarks already; the
- 16 collaboration has been incredibly valuable to us.
- 17 We intend to continue this dialogue with each other.
- One of the key things that we're keying up,
- 19 as far as our responsibilities, are to bring this
- 20 item to our Freight Advisory Committee in September.
- 21 We are also reenergizing our efficiency group to
- 22 work with industry stakeholders on some of the
- 23 efficiency ideas that have been brought forth as
- 24 part of that plan.
- 25 And in the very near term, we'll also be

- 1 going to the California Transportation Commission on
- 2 August 17th to brief them as well.
- 3 So we continue to implement the plan. We
- 4 continue to want to work in partnership. And I just
- 5 want to thank all of you for all of your support and
- 6 the ability to work with your staff. It's been
- 7 really a very production collaboration. Thank you.
- 8 CHAIRMAN WEISENMILLER: Thank you.
- 9 Any public comment either in the room or on
- 10 the phone; please identify yourself.
- 11 MR. MAGAVERN: Good morning, Commissioners.
- 12 My name is Bill Magavern. I'm with the Coalition
- 13 for Clean Air.
- 14 And we've been working for many years
- 15 trying to clean up the freight system. And that's
- 16 because, as the Chairman referenced a couple of
- 17 minutes ago, we really have to clean up our freight
- 18 system in order to reach air quality attainment in
- 19 California. The movement of goods accounts for
- 20 about half of all the diesel particulate matter in
- 21 the State and about 45 percent of nitrogen oxide
- 22 emissions.
- 23 And I would add that a transformation of
- 24 the freight sector is also critical to reaching our
- 25 goals for reducing greenhouse gas emissions and also

- 1 for reducing our reliance on petroleum. So because
- 2 of that, we've participated in this process of
- 3 formulating the Sustainable Freight Action Plan. We
- 4 sit on the Freight Advisory Committee with
- 5 Mr. Oglesby, among many others. And we are members
- 6 of the California Clean Air Freight Coalition, a
- 7 broad coalition of groups: community, regional,
- 8 national groups that's been engaged in this process
- 9 over the years.
- 10 So I want to thank the Commission and your
- 11 staff for the hard work that you've put into
- 12 developing this plan. And also for your years of
- 13 dedicating funding to demonstrating zero emission
- 14 technologies in the freight sector and that's going
- 15 to continue to be crucial. In fact, we think
- 16 there's a need for a lot more of incentive funding
- 17 and hope the Commission will work with others in the
- 18 Legislature and in the Administration to try to come
- 19 up with that funding over the years.
- We strongly support the vision in the
- 21 Freight Plan of deploying zero emission technologies
- 22 wherever they are available. And where they're not
- 23 available, deploying near zero emission technologies
- 24 combined with low carbon renewable fuels.
- 25 And we agree, as the Chairman had talked

- 1 about, and I think the Governor's vision is also,
- 2 that we can continue to have this important economic
- 3 driver in the state. And for it to grow and prosper
- 4 and continue to create jobs, while at the same time
- 5 protecting our air quality and our climate.
- 6 We think that the target of 100,000 zero
- 7 emission pieces of equipment is actually not very
- 8 ambitious. We think we can do better, especially
- 9 when you consider the fact that that category
- 10 includes forklifts. And we already have many, many
- 11 thousands of forklifts that are powered by either
- 12 batteries or fuel cells. So we would urge you in
- 13 implementing the plan to come back in three years
- 14 and see whether we can raise that target and be more
- 15 ambitious.
- 16 So thank you for listening to my comments.
- 17 CHAIRMAN WEISENMILLER: Thank you.
- 18 Anyone else in the audience or on the
- 19 phone?
- 20 (No audible response.)
- Okay, Commissioners? Commissioner Scott,
- 22 do you have comments or questions?
- 23 COMMISSIONER SCOTT: Sure. I had just a
- 24 few things to underscore that you pretty much have
- 25 heard already between our fellow agencies and

- 1 Andre's presentation, and also what Bill said. But
- 2 it may bear repeating.
- I want to say how much I appreciate Andre's
- 4 leadership here for the Energy Commission. He and
- 5 the team have been fantastic at engaging and really
- 6 helping to pull together the Sustainable Freight
- 7 Action Plan. And I'm really pleased that we had an
- 8 opportunity to do this informational item today,
- 9 because I know we don't always have a chance to
- 10 really dig into some of the outside activities, into
- 11 activities outside of our subject areas. And this
- 12 is a big one for the Governor and for the state, so
- 13 I wanted you guys to have the kind of firsthand
- 14 information.
- 15 You heard already California's freight
- 16 sector accounts for about \$740 billion in gross
- 17 domestic product and over five million jobs in 2014.
- 18 But it also accounts for about half of the
- 19 diesel particulate matter, almost half of our NOx
- 20 emissions, and about 6 percent of the greenhouse gas
- 21 emissions in the state. And so a large portion of
- 22 these emissions contribute to the high levels of
- 23 local pollution or hot spots, particularly in places
- 24 where we have some of the State's worst air quality.
- 25 Reducing emissions from the freight sector will be

- 1 critical to helping achieve California's Federal
- 2 Clean Air Standards in our ambitious climate goals,
- 3 particularly the target of reducing greenhouse gas
- 4 emissions 40 percent below 1990 levels by 2030.
- 5 I wanted highlight that we recognize that
- 6 there are already a number of ongoing freight-
- 7 related planning activities across the various
- 8 agencies. But this Action Plan is unique in that
- 9 it's the first time that these agencies have come
- 10 together aligning all of those efforts to develop a
- 11 comprehensive statewide strategy for moving towards
- 12 a more efficient and sustainable sector in
- 13 California.
- 14 I also wanted to highlight that the
- 15 interagency group tasked with this has engaged with
- 16 a broad range of stakeholders. You saw that in
- 17 Andre's presentation, and that was including but not
- 18 limited to industry, to labor, to regional and local
- 19 governments and community and environmental groups
- 20 to really get input and feedback on the plan that
- 21 we've put together. And they worked really hard to
- 22 incorporate that feedback into the final plan.
- 23 However, as you heard Andre mention the
- 24 plan is kind of the first step. And now the real
- 25 work begins. We've got to get out there and get

- 1 implementing.
- 2 So I just wanted to say thank you to our
- 3 partners. It really has been a fantastic
- 4 collaboration. I appreciate having the Air
- 5 Resources Board and GO-Biz here in the audience and
- 6 Caltrans on the phone. I think our agencies have
- 7 worked really well together, so I appreciate the
- 8 good partnership and collaboration we look forward
- 9 to continuing and as we implement this plan.
- 10 And also to all of the engaged stakeholders
- 11 who provided such really good feedback for us as we
- 12 went along.
- 13 And then again, just a hearty thanks to
- 14 Andre again for his leadership and to our Energy
- 15 Commission Transportation team for the great work
- 16 that they did helping put this plan together.
- 17 CHAIRMAN WEISENMILLER: Okay. Great,
- 18 thanks again.
- 19 Let's go on to Item 7, DOE National
- 20 Renewable Energy Laboratory, staff?
- 21 MR. AHMAD: Good morning, Chairman and
- 22 Commissioners. My name is Adeel Ahmad from the Zero
- 23 Emission Vehicle and Infrastructure Office of the
- 24 Fuels and Transportation Division.
- I am presenting to seek approval for an

- 1 amendment to contract 600-15-001 with the Department
- 2 of Energy, National Renewable Energy Laboratory.
- 3 The contract provides technical support to the
- 4 California Energy Commission Alternative and
- 5 Renewable Fuel and Vehicle Technology Program. The
- 6 objective of this amendment is to incorporate Task 8
- 7 real-time data collection for alternative fueling
- 8 stations.
- 9 In March 2012, Governor Brown issued
- 10 Executive Order B-16-12 laying the foundation to
- 11 support 1.5 million zero-emission vehicles by 2025.
- 12 As a near-term goal the Executive Order specifies
- 13 that infrastructure be built to support the fueling
- 14 of one million zero-emission vehicles by 2020 for
- 15 all-electric, hydrogen fuel-cell, and plug-in hybrid
- 16 vehicles.
- 17 The Alternative and Renewable Fuel and
- 18 Vehicle Technology Program has funded numerous
- 19 electric vehicle charging and hydrogen refueling
- 20 stations to create the infrastructure and promote
- 21 the adoption of zero-emission vehicles in
- 22 California. In an ongoing effort, ARFVTP has funded
- 23 over 8,000 electric vehicle charging stations and 49
- 24 hydrogen refueling stations so far. These stations
- 25 are continuously generating data on refueling events

- 1 and in return the Energy Commission requests this
- 2 data be provided by the grant recipients before the
- 3 agreement end date. The data provided is only a
- 4 small glimpse in time of a station's use and
- 5 overtime the station's utilization evolves.
- 6 The amendment will add Task 8 to create an
- 7 automated data collection repository of networked
- 8 electric vehicle charging and hydrogen refueling
- 9 stations operating in California. It will help the
- 10 Energy Commission access data beyond an agreement
- 11 end date and will assist electric and hydrogen
- 12 refueling station providers to share data in a more
- 13 streamlined method.
- 14 The Energy Commission staff will analyze
- 15 the data by individual stations to strategically
- 16 plan for additional stations that will increase the
- 17 rate of zero-emission vehicle adoption towards the
- 18 goal of 1.5 million vehicles by 2025.
- 19 If approved, the Energy Commission will
- 20 augment the budget with \$299,752 from the ARFVTP
- 21 technical assistance funding allocation. Staff is
- 22 requesting the Commission's support and approval of
- 23 this proposed amendment.
- With me today, on the phone today, is
- 25 Mr. Andrew Hudgins, Project Leader for the Energy

- 1 Systems Integration at the National Renewable Energy
- 2 Laboratory, to speak briefly about this Task. If
- 3 you have any questions, we will be happy to answer
- 4 them. Thank you.
- 5 CHAIRMAN WEISENMILLER: Great.
- 6 Let's first start, is there anyone in the
- 7 room who has any comment?
- 8 (No audible response.)
- 9 Then let's go to the line, please.
- MR. HUDGINS: Can everyone hear me?
- 11 CHAIRMAN WEISENMILLER: Yes.
- MR. HUDGINS: Great, thank you. And thank
- 13 you Adeel, Chairman and Commissioners. NREL manages
- 14 the Department of Energy's Alternative Fueling
- 15 Station Locator and Database. And through this
- 16 effort we collect and disseminate data for all
- 17 public and private electric vehicle charging
- 18 stations and hydrogen fueling stations across the
- 19 country.
- We have robust partnerships and agreements
- 21 with charging station installers and network
- 22 providers, which will enable us to execute this task
- 23 by enhancing our data collection and sharing
- 24 capacity. We also have a partnership with the
- 25 California Fuel Cell Partnership to collect and

- 1 share hydrogen station data. NREL's robust analysis
- 2 capabilities will help CEC meet the goals of the
- 3 proposed project and we look forward to working
- 4 alongside CEC staff. And we feel that this will be
- 5 a state-of-the-art project and a critical tool for
- 6 meeting the goals of the Executive Order.
- 7 So we appreciate the consideration, Adeel's
- 8 work to bring this to this meeting, and I'm happy to
- 9 answer any questions that may come up.
- 10 CHAIRMAN WEISENMILLER: Thank you.
- 11 Let's transition to the Commissioners,
- 12 COMMISSIONER SCOTT: I highly recommend
- 13 this project. I think the data collection
- 14 capabilities it will give us will be really handy as
- 15 we're looking forward to understand more about how
- 16 the chargers are being utilized, how the fueling
- 17 stations are being utilized. And you can never have
- 18 enough data, especially in a newish technology like
- 19 this.
- 20 So if you guys don't have questions I will
- 21 move approval of -- oh, are you sure? I will move
- 22 approval of Item 7.
- 23 COMMISSIONER HOCHSCHILD: Second.
- 24 CHAIRMAN WEISENMILLER: All those in favor?
- 25 (Ayes.)

- 1 CHAIRMAN WEISENMILLER: So this item passes
- $2 \quad 4-0$.
- 3 Thank you.
- 4 MR. AHMAD: Thank you.
- 5 CHAIRMAN WEISENMILLER: Let's go on to Item
- 6 8, City of Santa Monica. Staff?
- 7 MS. SALAZAR: Good Morning, Chair
- 8 Weisenmiller and Commissioners. My name is Rachel
- 9 Salazar and I work in the Energy Research and
- 10 Development Division. I am here today seeking
- 11 approval of an agreement with the City of Santa
- 12 Monica for approximately \$1.5 million in EPIC
- 13 funding.
- 14 This is one of the projects that was
- 15 selected as the -- I'm sorry, is part of the "EPIC
- 16 Challenge." As you may recall the EPIC Challenge is
- 17 a two-phase competition, which challenges teams to
- 18 develop innovative approaches to accelerate the
- 19 deployment of advanced energy communities.
- 20 Phase I focuses on the planning and design,
- 21 while Phase II will provide funding to three
- 22 projects for the build-out of the communities. Only
- 23 recipients from Phase I will be invited to compete
- 24 for Phase II. This agreement will be for activities
- 25 funded out of Phase I.

- 1 The City of Santa Monica will plan and
- 2 design a multiuser micro grid, which will integrate
- 3 renewable energy, energy storage, and electric
- 4 vehicle charging. The micro grid will provide
- 5 service to the City Yards, which was built on top of
- 6 a landfill, as well as neighboring private and
- 7 public properties. Participants of the micro grid
- 8 will include the City's municipal buildings and
- 9 fleet, a fire department training center, a public
- 10 park, an affordable housing mobile home park, as
- 11 well as the Bergamont Arts Center, which is being
- 12 planned for private redevelopment.
- 13 The project team will work with
- 14 stakeholders and investors to fund and permit the
- 15 designed advanced energy community working through
- 16 public and private partnerships.
- 17 Additionally, a replicable model for the
- 18 policy and financial frameworks will be developed
- 19 and shared with the public.
- 20 Staff recommends approval of this
- 21 agreement. And I'm happy to answer any questions
- 22 you have at this time.
- 23 CHAIRMAN WEISENMILLER: Thank you.
- 24 First, is there anyone in the room or on
- 25 the line who has comments on this?

- 1 (No audible response.) 2 Okay. Then let's transition to the 3 Commissioners. 4 I'm the Lead on the Research Program and obviously this is a good example of what we're 5 6 trying to do in terms of really at the community 7 level. It's interesting, when you look at China 8 their programs seem to be the Emissions Training 9 System, which are going in nationwide. And also 10 zero carbon cities is an activity that they have 30 11 or 40. So again, it's good to -- and there are 12 (indiscernible) Chinese cities. As you know there 13 are cities that are -- actually at least one's 14 probably bigger than California, but having said 15 that there are lots of very large cities in China. 16 So certainly always trying to really see 17 what sort of creativity and imagination we get at a 18 local level, particularly in the renewables space. 19 So thanks. Anyone else have comments or questions?
- 20
- 21 COMMISSIONER SCOTT: I'd underscore the
- 22 creativity and innovation at the local level. I
- 23 think the EPIC Challenge is really a fantastic set
- 24 of projects that we've had a chance to review. And
- 25 I've challenged the Transportation team to see if we

- 1 can come up with something similar to that on the
- 2 Transportation space. So I think these are great, I
- 3 can't wait to see how the projects turn out.
- 4 COMMISSIONER MCALLISTER: You know, I would
- 5 just echo on the energy efficiency side, local
- 6 governments are really all the action is, 90 percent
- 7 of the action is there. And so anything we can do
- 8 to help them think creatively, give them some
- 9 resources, so that they can forge these solutions.
- 10 We have a diverse state, maybe not quite as diverse
- 11 or certainly as populous as China, but maybe. And
- 12 the local government is really where we need to
- 13 learn from, so we can then know what to do at the
- 14 state level.
- 15 So this is an example of that and I'm very
- 16 supportive. Okay, so I'll move Item 8.
- 17 COMMISSIONER SCOTT: Second.
- 18 CHAIRMAN WEISENMILLER: All those in favor?
- 19 (Ayes.)
- 20 CHAIRMAN WEISENMILLER: So thank you.
- Item 8 passes 4-0.
- Let's go on to Item 9, Advancing Water and
- 23 Energy Efficient Strategies and Technologies in
- 24 California. Staff?
- 25 MR. MORI: Good Morning, Commissioners.

- 1 I'm Kevin Mori of the Energy Efficiency Research
- 2 Office and with me is Brad Williams of the same
- 3 office. Together we are going to present five items
- 4 recommended by staff. The five apply to research
- 5 agreements focused on water and energy efficiency.
- 6 MR. WILLIAMS: Thanks, Kevin.
- 7 And the first item, Item A is "Improving
- 8 Water and Energy Efficiency in California's Dairy
- 9 Industry" with UC Davis.
- 10 As the nation's largest milk producer,
- 11 California dairies constitute one of the most
- 12 important sectors of the state's economy. The
- 13 California Dairy industry has continued to suffer
- 14 significant financial loss each year due to
- 15 decreased milk production and increased disease as a
- 16 result of heat stress during the summer months.
- 17 It is estimated that keeping cows cool
- 18 during the summer months in California consumes an
- 19 estimated 21 billion gallons of water -- and uses
- 20 and uses an estimated 253,000 Megawatt-hours of
- 21 electricity annually.
- In this project UC Davis will test two
- 23 innovative cow-cooling technologies. The first
- 24 approach will cool cows using cooling mats embedded
- 25 in the ground under their pens. In the second

- 1 approach cows will be cooled by targeting air
- 2 directly at individual cows through a ducted system.
- 3 After pilot tests are complete at the UC
- 4 Davis Dairy, the more promising of the two
- 5 technologies will be demonstrated on a larger scale
- 6 at a dairy in Tulare. These technologies have the
- 7 potential to reduce energy consumption by
- 8 approximately 40 percent and water consumption by
- 9 approximately 85 percent compared to conventional
- 10 methods.
- MR. MORI: Thanks, Brad.
- 12 Item B is "Testing a Low-Energy Water
- 13 Treatment System for Fail-Safe Direct Potable Reuse"
- 14 with Porifera, Inc.
- 15 California has not allowed permitting of
- 16 direct potable reuse projects due to health risks
- 17 and the lack of real-time fail-safe methods.
- 18 Porifera will test a membrane breach detecting
- 19 technology that will provide a fail-safe measure for
- 20 treating wastewater to direct potable water reuse.
- 21 This technology has the potential to reduce
- 22 energy use by 75 percent compared to conventional
- 23 methods and directly provide potable water. This
- 24 project will be demonstrated in a disadvantaged
- 25 community in Hayward.

- 1 MR. WILLIAMS: And Item C is "Power and
- 2 Water Saving Advanced Hybrid Air/Wet Cooling System"
- 3 with Altex Technologies Corporation. Conventional
- 4 hybrid air/wet cooling systems tend to have high
- 5 capital and electric power costs, which constrain
- 6 their use in commercial and industrial buildings.
- 7 In this project, Altex will design and test an
- 8 advanced hybrid air/wet cooling system at their
- 9 commercial facility located in Sunnyvale,
- 10 California.
- 11 The advanced cooling system will utilize an
- 12 advanced heat exchanger with improved cooling
- 13 performance and lower power requirements compared to
- 14 traditional heat exchangers. By leveraging the
- 15 improved dry performance characteristics, the system
- 16 will be able to operate under dry conditions for a
- 17 majority of the time, and reduce wet cooling cycles.
- 18 This reduction in wet cooling mode will
- 19 produce several benefits including: reduced
- 20 maintenance, elimination of water carry over and
- 21 plumes, and elimination of water biocide treatment
- 22 problems.
- 23 This technology has the potential to save
- 24 approximately 260,000 megawatt hours and 20 billion
- 25 gallons of water annually.

- 1 MR. MORI: Thanks, Brad.
- 2 Item D is "A New Solution to California's
- 3 Energy and Water Challenges: Reducing the Cost of
- 4 Desalination and Increasing Water Reuse" with
- 5 Lawrence Livermore National Security, LLC. Lawrence
- 6 Livermore will be testing a flow-through electrode
- 7 capacitive desalination system on brackish water.
- 8 This system uses electric fields to attract
- 9 salt ions to the electrodes, thus desalinating the
- 10 water. This technology will be tested in the Delta
- 11 Diablo water treatment plant in Antioch, CA and at a
- 12 facility in Los Angeles County.
- 13 This system has the potential to save
- 14 approximately 8.3 gigawatt hours per year compared
- 15 to the conventional desalination method for brackish
- 16 water.
- 17 MR. MORI: Item E is "Novel Membrane
- 18 Technology to Improve Energy Efficiency and Water
- 19 Savings in Wastewater Treatment Operations" with
- 20 Kennedy/Jenks Consultants.
- 21 Water filtration using membranes can be
- 22 energy intensive due to fouling of the membranes.
- 23 Kennedy/Jenks will be testing a novel self-cleaning
- 24 membrane filtration system that will minimize the
- 25 fouling and increase efficiency. The test will

- 1 occur at the Northeast Bakersfield Water Treatment
- 2 Plant in Bakersfield, California.
- 3 This technology has the potential to reduce
- 4 energy use by 40 percent and save approximately 50
- 5 percent of water associated with backwashing the
- 6 filters.
- 7 Thank you, and we are happy to answer any
- 8 of your questions.
- 9 CHAIRMAN WEISENMILLER: Thank you.
- 10 First, any comments from anyone in the room
- 11 or on the line?
- Okay, so transitioning to the
- 13 Commissioners. Obviously, as the Lead on Research I
- 14 think we all know the important nexus for California
- 15 between water and energy. I mean, obviously in
- 16 Southern California we're in the fifth year of our
- 17 drought and certainly any number of eminent climate
- 18 scientists are concerned that we could be looking at
- 19 decadal-long droughts in California in our future.
- 20 So it's really important that we look at
- 21 ways, we basically bring some of the innovation that
- 22 we've done so well within the energy space, to bring
- 23 that into the water space. And remind folks when
- 24 the Governor signed his Executive Order on Water,
- 25 one of the things that he really wanted to do was

- 1 bring the Energy Commission more in to water issues.
- 2 Particularly to really focus on innovation and
- 3 efficiency, so again I think that these are
- 4 important in programs or research activities for
- 5 California's future.
- 6 COMMISSIONER MCALLISTER: Yeah. I quess
- 7 they do both water and energy, and therefore it's
- 8 incumbent upon us to pay attention to what happens
- 9 with the water savings and the energy savings. So
- 10 I'm obviously very interested in the performance of
- 11 evaporative technologies that we've got here in
- 12 terms of the energy side of it, independent in some
- 13 way from the water side of it.
- 14 And hopefully we can have our cake and eat
- 15 it and we just want to make sure that actually
- 16 happens. So I look forward to seeing how the
- 17 performance evolves.
- Okay. I'll move Item 9.
- 19 COMMISSIONER SCOTT: Second.
- 20 CHAIRMAN WEISENMILLER: All those in favor?
- 21 (Ayes.)
- Item 9 passes 4-0.
- Thank you.
- MR. MORI: Thank you.
- 25 CHAIRMAN WEISENMILLER: Let's go on to Item

- 1 10, University of California Berkeley. Staff?
- 2 MR. SULEIMAN: Good morning, Chairman and
- 3 Commissioners. My name is Adel Suleiman. I'm with
- 4 the Energy Efficiency Research Office.
- 5 This research grant, for approximately \$1.9
- 6 million to the Regents of the University of
- 7 California, Berkeley, is to develop, demonstrate and
- 8 to evaluate an innovative technology solution to
- 9 reduce heating and cooling energy use in residential
- 10 and commercial buildings.
- Heating and cooling consumes up to 40
- 12 percent of the energy used in residential and
- 13 commercial buildings. This technology like this
- 14 will help California meet its energy and climate
- 15 goals. And can be implemented without major
- 16 replacement of HVAC systems and has the potential of
- 17 reducing energy use by up to 37 percent in cooling
- 18 and 15 percent in heating. And this solution
- 19 combines advanced ceiling fans with automated
- 20 controls, with programmable learning thermostats to
- 21 control fan speed and HVAC schedules based on
- 22 occupancy, space conditions, and thermal comfort.
- 23 This technology will be demonstrated in six
- 24 low-income multifamily housing units buildings, all
- 25 located in disadvantage communities in Newman,

- 1 Madera, Fresno, El Monte and San Diego.
- 2 The research project will demonstrate and
- 3 quantify energy savings, assesses occupant comfort,
- 4 identify and address market barriers to advance
- 5 wider acceptance and adoption, develop tools
- 6 currently unavailable for designers to size, select,
- 7 and position ceiling fans, and make the tools
- 8 available to the public, provide guidance on how to
- 9 implement this technology into energy efficiency
- 10 retrofit programs and policies, and to develop
- 11 standard rating methods and energy-code language to
- 12 facilitate more widespread implementation.
- In addition to UC Berkeley, project
- 14 partners include Center for the Built Environment
- 15 and Haiku fan manufacturers. More than \$300,000 in
- 16 match funding is being provided on this project. I
- 17 am seeking your approval on this item, and I will be
- 18 happy to answer any questions you might have.
- 19 CHAIRMAN WEISENMILLER: Thank you.
- 20 First, any comments from anyone in the room
- 21 or on the phone?
- (No audible response.)
- No, let's transition to the Commissioners
- 24 then.
- 25 Again, this is another one of our research

- 1 projects. I think it's a pretty exciting one as we
- 2 go forward. Obviously, we've talked about how the
- 3 existing buildings are a key part of our energy use
- 4 in greenhouse gas emissions. So it's good to get
- 5 some research, particularly in the low-income
- 6 multifamily area, need options there.
- 7 COMMISSIONER MCALLISTER: Yeah. Heat
- 8 exchangers are a key piece of a lot of different
- 9 systems, so figuring out what works and how we can
- 10 improve the efficiency is pretty critical all
- 11 around, so not just here but in other places too and
- 12 so I'm very supportive.
- So I'll move Item 10.
- 14 COMMISSIONER SCOTT: Second.
- 15 CHAIRMAN WEISENMILLER: All those in favor?
- 16 (Ayes.)
- 17 CHAIRMAN WEISENMILLER: So, Item 10 passes
- 18 4-0. Thank you.
- 19 Let's go on to Item 11, Los Angeles
- 20 Cleantech Incubator. Staff, good morning.
- 21 MS. GONZALEZ: Good morning, Chair
- 22 Weisenmiller and Commissioners. My name is Diana
- 23 Gonzalez with the Energy Deployment and Market
- 24 Facilitation Office.
- I am seeking Commission approval today for

- 1 the Los Angeles Regional Energy Innovation Cluster
- 2 Project. The purpose of this solicitation is to
- 3 support the development and commercialization of
- 4 promising new energy innovations to benefit electric
- 5 ratepayers in the Investor-Owned Utility Service
- 6 Territories. Three additional regional energy
- 7 innovation cluster agreements were previously
- 8 approved at the April Business meeting.
- 9 As new energy policies are adopted,
- 10 entrepreneurs must conceptualize and develop
- 11 innovative new solutions for a cleaner, safer, more
- 12 affordable, more reliable and more resilient
- 13 electric grid. However, entrepreneurs often lack
- 14 viable market strategies, business expertise, access
- 15 to laboratory facilities, or merely just
- 16 understanding the needs of their potential
- 17 customers, making commercialization difficult. This
- 18 grant addresses that critical gap in the path-to-
- 19 market for energy entrepreneurs by providing key
- 20 resources to the entrepreneurs in the Los Angeles
- 21 Region.
- This agreement, for approximately \$5
- 23 million, will be managed by the Los Angeles
- 24 Cleantech Incubator, also known as LACI, who
- 25 proposes to create a Los Angeles Regional Energy

- 1 Innovation Cluster by bringing together the region's
- 2 key clean energy stakeholders in the four counties,
- 3 which are Los Angeles, Santa Barbara, Orange and
- 4 Ventura.
- 5 LACI will act as the central coordinating
- 6 organization for this Los Angeles Cluster. They
- 7 will conduct research and document the region's
- 8 energy needs, and develop an outreach and
- 9 commercialization support program for energy
- 10 entrepreneurs. Furthermore, they will develop the
- 11 cluster-driven economic development approach to
- 12 accelerate innovation, job creation, and time-to-
- 13 market for new products.
- 14 Staff is seeking approval for this item and
- 15 I can answer any questions at this time. Thank you.
- 16 CHAIRMAN WEISENMILLER: Thank you.
- 17 First, is there anyone either in the room
- 18 or on the line who has comments on this item?
- 19 (No audible response.)
- 20 So let's transition to the Commissioners.
- 21 I've actually visited the L.A. Cleantech Incubator a
- 22 couple of times. And it's certainly an interesting
- 23 program trying to pull together across the various
- 24 universities in Los Angeles. And also sort of
- 25 provide that space to really again start moving

- 1 things from research into the market.
- 2 And one of the really exciting parts of the
- 3 transition from PIER to EPIC is to have us more
- 4 focused on that sort of commercialization programs.
- 5 And I think the incubator programs that we're doing
- 6 are certainly a key part of that. It's great to see
- 7 the Los Angeles part filled in.
- 8 And I think we're all looking forward to
- 9 getting progress reports over the next couple of
- 10 years as this piece marches along. So again, I'm
- 11 certainly happy to transition on this.
- 12 COMMISSIONER MCALLISTER: Yes, and L.A. got
- 13 a recent federal award for some significant funding
- 14 as well, which is great. And there's just so much
- 15 good stuff happening in the L.A. area.
- 16 Actually back in the day, when they were in
- 17 a tiny little building with just a few cubes in it,
- 18 the place I used to work actually sat a person down
- 19 in the incubator and used it and really got value
- 20 out of the previous version of this. And now
- 21 they've really gone big with it, so it's really
- 22 fabulous.
- 23 So I'm very supportive, so anybody? No?
- 24 I'll move Item 11.
- 25 COMMISSIONER SCOTT: Second.

- 1 CHAIRMAN WEISENMILLER: All those in favor?
- 2 (Ayes.)
- 3 CHAIRMAN WEISENMILLER: So this passes 4-0.
- 4 Thank you.
- 5 Let's go on to Item 16. (sic) This is a
- 6 discussion of Energy Commission progress re
- 7 implementation in the Clean Energy and Pollution Act
- 8 of -- oh excuse me, it's 12, thank you. I'm jumping
- 9 ahead.
- 10 Anyways, so we're going to talk about what
- 11 we're doing on 350. Just to remind everyone, 350
- 12 really is moving away sort of our individual program
- 13 silos and forcing us to tie things together.
- 14 There's the very important Barriers Study, which
- 15 we'll get another upcoming report and then to talk
- 16 about IRP. But this is a unique opportunity for all
- 17 of us to talk about it as opposed to our normal
- 18 Bagley-Keene constraints.
- 19 So let's start with the Barriers Study,
- 20 Rob?
- MR. OGLESBY: Great.
- I'll start by mentioning this is going to
- 23 be a standing item on all of the business meetings
- 24 going forward, because of such an important project.
- 25 It involves a lot of work to implement SB 350.

- 1 We've included a few minimal updates as we've done
- 2 Public Adviser reports, but because of the
- 3 importance of this it'll be a noticed standing item
- 4 and we'll keep you appraised of what's going on.
- 5 Also, I'd start off by observing that the
- 6 project involves coordination across the Divisional
- 7 lines of the Energy Commission, as well as
- 8 engagement with other agencies and government. And
- 9 so we've set up an interior structure, a management
- 10 structure, that'll help us manage it effectively.
- 11 And we've appointed an assigned an existing
- 12 staff member that's very talented to help be the
- 13 Project Leader and the point of contact and kind of
- 14 the person who's responsible for dealing with the
- 15 management of this program before they have their
- 16 first cup of coffee in the morning. So I'd like to
- 17 introduce and ask Mike Sokol to stand up, who's over
- 18 there. So he's joined the team and is formally
- 19 going to be the Project Leader on this.
- The management of the implementation of the
- 21 program has involved a series of meetings. We have
- 22 weekly oversight meetings at a high level within the
- 23 agency and we have a number of subgroups that meet
- 24 periodically and frequently, both to coordinate the
- 25 internal and also the external coordination with the

- 1 other agencies.
- 2 So having said that I'm going to start with
- 3 an overview of the program. I'll move on to a
- 4 provide an update of the activities related to the
- 5 Barriers Report. Normally, that report would be
- 6 done by our Public Adviser, Alana Mathews, she's
- 7 otherwise on the road today and so I'll be giving
- 8 her report for her. After that, Sylvia Bender will
- 9 be doing a report, a PowerPoint, on the Integrated
- 10 Resource Plan aspects of SB 350. So let me start by
- 11 talking about the overall role of 350 and what we're
- 12 doing to implement it.
- 13 The goals set forth by the Governor and the
- 14 Legislature in SB 350 are very ambitious, but staff
- 15 is excited about the challenge. And I'm confident
- 16 that we'll be up to the task. We have a lot of
- 17 tasks, but I want to highlight some of the key ones
- 18 this morning.
- 19 The first goal in identified in SB 350, and
- 20 I'm quoting the statute is to, "Increase from 33
- 21 percent to 50 percent the procurement of our
- 22 electricity from renewable sources." The Energy
- 23 Commission's Renewables Division is working on
- 24 amendments to our regulations to accomplish this
- 25 goal. Our target date to bring regulations to a

- 1 vote before this Commission is March 2017.
- 2 The second goal identified in 350 is to,
- 3 "Double the energy efficiency savings in electricity
- 4 and natural gas final end uses of retail customers
- 5 through energy efficiency and conservation." Energy
- 6 Commission's Energy Assessments and Energy
- 7 Efficiency Divisions are working closely with our
- 8 sister agencies including the Public Utilities
- 9 Commission and the Air Resources Board as well as
- 10 the California Independent Systems Operator to lay
- 11 the foundation for this goal.
- We're working hard to develop an
- 13 appropriate baseline to measure progress against.
- 14 And we are seeking public input on how best to set
- 15 the energy efficiency targets for publicly owned
- 16 utilities.
- 17 SB 350 also tasks the larger utilities with
- 18 developing integrated resource plans. Each
- 19 utility's plan must address procurement of energy
- 20 efficiency and demand response, energy storage,
- 21 transportation electrification, a diversified
- 22 procurement portfolio and, of course, 50 percent
- 23 renewables by 2030.
- 24 The legislation states, "The Energy
- 25 Commission shall review the Integrated Resource Plan

- 1 and Plan Updates. If the Energy Commission
- 2 determines that an Integrated Resource Plan or Plan
- 3 Update is inconsistent with SB 350 the Energy
- 4 Commission shall provide recommendations to correct
- 5 deficiencies."
- 6 The law gives us authority to adopt
- 7 quidelines, and the Energy Commission staff are
- 8 working on those now. The first IRPs for publicly
- 9 owned utilities are due to the Energy Commission by
- 10 January 1, 2019. The first IRPs for investor owned
- 11 utilities are due newer, sooner, and are due to the
- Public Utilities Commission in 2017. Energy 12
- 13 Commission staff and CPUC staff are coordinating
- 14 efforts.
- 15 SB 350 also directs the Energy Commission
- 16 to, by January 1, 2017, conduct and complete a study
- 17 on both of the following: barriers to and
- 18 opportunities for solar voltaic energy generation as
- 19 well as barriers to and opportunities for access to
- 20 other renewable energy by low-income customers and
- 21 barriers to contracting opportunities for local
- 22 small businesses and disadvantaged communities.
- 23 I'm going to discuss these barriers,
- 24 activities, right now.
- 25 First, we began with a literature review.

- 1 The literature review is complete, over 100 articles
- 2 and studies have been reviewed to identify the
- 3 common barriers and solutions to assisting low-
- 4 income customers access renewables, and energy
- 5 efficiency and weatherization investments. The
- 6 writing team is led by Jordan Scavo from the
- 7 Renewables Division. It includes Bill Pennington
- 8 from the Energy Efficiency Division and Esteban
- 9 Guerrero, one of our graduate students from
- 10 Stanford.
- 11 We've done a Gap Analysis. The initial Gap
- 12 Analysis is complete in those identified areas where
- 13 more research is needed to more adequately identify
- 14 barriers and assess proposed solutions. The writing
- 15 team developed a list of Gap questions to help focus
- 16 the discussions for public engagement on specific
- 17 inquiries to fill the data gaps.
- Now, the public engagement process is
- 19 extensive. It includes three advocate and
- 20 organizational stakeholder meetings, two
- 21 Environmental Justice Advisory Committee community
- 22 meetings in collaboration with the ARB, seven
- 23 community stakeholder meetings and three public
- 24 workshops.
- 25 The majority of the stakeholder meetings

- 1 were planned and facilitated by the California
- 2 Environmental Justice Alliance and several of their
- 3 community partners throughout the State, which
- 4 includes the Greenlining Institute for Berkeley,
- 5 Asian-Pacific Environmental Network for the Oakland
- 6 meeting, Communities for Better Environment in Los
- 7 Angeles-Huntington Park, the Leadership Alliance for
- 8 Environmental Justice in Fresno, the California
- 9 Community Advocates for Environmental Justice for
- 10 Riverside and San Bernardino and Strategic Concepts
- 11 in Organizing Policy and Education and Repower also
- 12 for Los Angeles.
- 13 Additionally, Alana Mathews has reached out
- 14 to the Sierra Business Council and Sierra Camp who
- 15 will host a community stakeholder meeting to discuss
- 16 the unique barriers faced by low-income customers
- 17 who live in the Sierra Mountain Range communities.
- 18 She is also working with the Strategic Growth
- 19 Council in collaboration with the Air Resources
- 20 Board to participate in a community stakeholder
- 21 meeting with the North Star Tribal Housing Authority
- 22 to discuss barriers faced by low-income customers in
- 23 tribal communities.
- 24 Additionally, an invitational letter and
- 25 survey was sent to all 184 recognized tribes in the

- 1 State of California to participate in this meeting
- 2 via webinar. And they were also given formal notice
- 3 for the upcoming workshop to be held August 12th.
- 4 The public engagement process includes
- 5 three public workshops: a scoping workshop, which
- 6 was held June 3rd to get feedback on the scope
- 7 approach and schedule for the study; the technical
- 8 workshop, which will be held August 12th to get
- 9 input on specific policy recommendations for
- 10 solutions and opportunities to increase low-income
- 11 customers' access to renewables and energy
- 12 efficiency and weatherization investments. And the
- 13 final workshop will be the draft study workshop,
- 14 which is scheduled for September 13th to introduce
- 15 and get public comment.
- This study is scheduled to be adopted at
- 17 the December 14 Business Meeting and this ambitious
- 18 deadline includes review by all Commissioners,
- 19 relevant agencies, key stakeholders and members of
- 20 the public. This study will not only fulfill our
- 21 legislative mandate, but is an opportunity to
- 22 fulfill our diversity commitment as we are building
- 23 relationships with environmental justice and equity
- 24 organizations around the state.
- 25 Additionally, each community meeting is an

- 1 opportunity to share the Energy Commission programs
- 2 that can benefit disadvantaged communities such as
- 3 Prop 39 and to connect with community members and
- 4 engage with them on climate change issues.
- Now, I'd like to turn to Sylvia for her
- 6 presentation on the --
- 7 CHAIRMAN WEISENMILLER: Thanks. Let's take
- 8 a break here just for a second, so we can have a
- 9 conversation on this piece and then transition to
- 10 the other one.
- MR. OGLESBY: Sure.
- 12 CHAIRMAN WEISENMILLER: I think that
- 13 probably makes the most sense.
- So I mean, you were at one of the meetings,
- 15 so I thought maybe you'd be a good --
- 16 COMMISSIONER MCALLISTER: Sure, yeah so I
- 17 was fortunate to go to the first community meeting.
- 18 And we actually piggybacked a local meeting with
- 19 some stakeholders meeting nonprofits down there
- 20 including Communities for Better Environment and
- 21 others. Just to have an open -- just a kind of a
- 22 ground-truthing -- I always find it helpful to kind
- 23 of just go and ask a lot of questions and see what
- 24 people think about stuff. So the community meetings
- 25 are certainly good for that.

- 1 But also program implementers and people
- 2 who are really on the ground doing this work,
- 3 implementing these programs, and have a real finger
- 4 on the pulse of what low-income programs are doing,
- 5 what sort of the barriers they face in real terms
- 6 day-to-day actually are. And our goal here as
- 7 Robbie explained, is really to try to roll, identify
- 8 the issues, and take the pragmatic sort of realities
- 9 on the ground. And figure out okay what policy
- 10 initiatives, what can we recommend to do better, get
- 11 deeper, get more broad access to energy efficiency
- 12 and renewables?
- So I did, way back in the day, a bunch of
- 14 work for the Department of Housing and Urban
- 15 Development and worked on some of the environmental
- 16 justice issues around energy efficiency. And many
- 17 of those barriers from the early '90s really it was,
- 18 are still there.
- I mean, part of it's a matter of just
- 20 funding, getting more resources to where they need
- 21 to be, which is its own kind of discussion. But in
- 22 part there are programmatic and policy ways that we
- 23 can help the marketplace provide services that
- 24 people need across the board, but certainly in the
- 25 disadvantaged communities.

- 1 So I'm very hopeful about this effort. I
- 2 think Alana and all of the Advisers really, have
- 3 been putting in a lot of effort to make sure that
- 4 everybody who needs to be at the table is at the
- 5 table. Certainly, that was the case at the L.A.
- 6 workshop and we got to hear from a lot of community
- 7 members. And they really gave a very real-world
- 8 picture of how people see these programs.
- 9 And communication, one take-away is
- 10 communication continues to be a big need. You know,
- 11 people need to understand not just these programs,
- 12 but just energy in general, so that they can make
- 13 better choices. Because disadvantaged low-income
- 14 folks make choices just like the rest of us albeit
- 15 with more constraints often.
- So I think this is a great opportunity. I
- 17 want to thank all of the advisers. I know Emilio
- 18 has been working a lot on this and Kevin has been
- 19 really also. And my Adviser, Bryan Early, also has
- 20 been putting together a workshop that we're going to
- 21 have on Friday. So I think that's going to be a
- 22 good one here in Sacramento on sort of some of the
- 23 policy issues that we're starting to identify and a
- 24 lot of good stakeholders at the table, so I
- 25 certainly encourage people to come to that one and

- 1 participate.
- 2 So with that I want to thank Rob and Alana
- 3 and the staff.
- 4 CHAIRMAN WEISENMILLER: I was going to say
- 5 the one thing I think you probably should note is
- 6 that given your Spanish ability -- anyways a lot of
- 7 Spanish speakers were at your workshop. And I don't
- 8 know what I was (indiscernible) --
- 9 COMMISSIONER MCALLISTER: Yeah, that was a
- 10 really --
- 11 CHAIRMAN WEISENMILLER: -- but I mean, so
- 12 to the extent you could really converse with them in
- 13 their languages, that had to be great.
- 14 COMMISSIONER MCALLISTER: I mean, that's a
- 15 big part of the equation here, the multiple
- 16 languages. You know, obviously Spanish is the big
- 17 non-English in the State, but there are many others.
- 18 And so we need to engage with how we deal with non-
- 19 English speakers I think more broadly as well. But
- 20 I certainly -- I was thinking about my Peace Corps
- 21 days when I was doing community organizing in very
- 22 remote places in South America and Central America.
- 23 And you know, it's not just about Spanish-
- 24 speaking people as a group, it's actually there are
- 25 communities from every country in Latin America in

- 1 Los Angeles and across the state. And they bring
- 2 their own cultures, they bring their own ways of
- 3 speaking, they bring their own idioms and ways of
- 4 thinking about energy. And it's just such a diverse
- 5 state it's very exciting, but it's also challenging
- 6 to figure out how to bring services to those people.
- 7 And so I think this Barriers Report is
- 8 going to be a going to be a good step in the right
- 9 direction. And hopefully we'll get some good policy
- 10 outcomes as we move forward.
- 11 CHAIRMAN WEISENMILLER: Yeah, I don't know,
- 12 Robert if you know, or Janea, I know we have the
- 13 information sheets in I'm going to say five or six
- 14 languages for these workshops.
- MR. OGLESBY: Yeah, it's five or six
- 16 languages. Staff has done a great job of targeting
- 17 communities and making sure that the materials are
- 18 available and that communication is available,
- 19 translation is available in the language that's
- 20 dominant. But we've covered a variety of languages
- 21 for all the materials that we've provided as we go
- 22 through these community meetings.
- 23 CHAIRMAN WEISENMILLER: And Janea?
- 24 COMMISSIONER SCOTT: Sure, I had just a
- 25 couple of things. It's great to hear how the

- 1 meeting went, so thank you for sharing the details
- 2 and insights on that with us.
- I think in my role from the Public Member,
- 4 one of the things that Rhetta on my team has done a
- 5 great job with Alana, trying to help in making sure
- 6 that we all kind of consistently are getting the
- 7 same information that we have, the same overview,
- 8 that we have the same understanding, so that we can
- 9 get good and consistent feedback from the various
- 10 community meetings. And figure out how to weave it
- 11 together.
- 12 So you probably received from Alana, each
- 13 one of us received our own packet, which is specific
- 14 to our community meeting. But we tried to provide
- 15 also an overview layer to that, which kind of had an
- 16 overview of the community meetings for each of the
- 17 Commissioners that had a little bit of detail about
- 18 the specific community group with which you will
- 19 have met or we will be meeting; a little bit of the
- 20 overarching SB 350 goals, just kind of like a little
- 21 cheat sheet for us to have at hand; the poster
- 22 boards that will be shown at the meeting, so we have
- 23 a sense of what else is going on around us while we
- 24 are there and then an overview of the SB 350
- 25 Barriers.

- 1 So Alana sent that out on the same day as
- 2 the very first community meeting, for all of us to
- 3 really have a nice kind of overview sense of what's
- 4 going on.
- 5 The second thing that I wanted to talk with
- 6 you all about a little bit is how we take the
- 7 information that we gather at these community
- 8 meetings and get it into the report that we're
- 9 putting together. And my sense of this is that I
- 10 imagine there will be some themes that come out of
- 11 each of the community meetings and so we may want to
- 12 raise those and note that these are kind of themes
- 13 that are consistent throughout the state, no matter
- 14 what community you happen to be a part of. And
- 15 potentially address those themes in the report.
- 16 And the other thing, I think, is we will
- 17 have probably some really interesting anecdotes.
- 18 And the way that I kind of see those potentially in
- 19 the report is as a side box or an interesting story.
- 20 We want to really make sure that that comes through
- 21 even though some of it may be anecdotal and we don't
- 22 have a footnote with the study that goes along with
- 23 it. But I think it will be really important to
- 24 incorporate the voices from our community meetings
- 25 into the report. And that's the idea that I had for

- 1 that.
- 2 And I wanted to talk to you all about it,
- 3 so if Alana has questions hopefully she doesn't get
- 4 five different answers and is trying to figure out
- 5 with all the cooks in the kitchen what to do. But
- 6 that's my suggestion there and I'd love to know what
- 7 you all are thinking about how we incorporate the
- 8 information we receive at these meetings into the
- 9 report.
- 10 CHAIRMAN WEISENMILLER: Commissioner
- 11 McAllister, since you've gone through the first one,
- 12 do you have a sense of the best way to connect that
- 13 back? I'll note for everyone, obviously we had this
- 14 workshop on Friday, which is more the technical
- 15 report. But anyway, in terms of do you have a sense
- 16 of the best way to connect back the event you went
- 17 to into the report?
- 18 COMMISSIONER MCALLISTER: Yeah, so the
- 19 discussion actually was wide-ranging, but I think
- 20 Emilio did a great job facilitating the Spanish-
- 21 speaking one and everybody was taking notes. And
- 22 particularly there was a board, we had notes, we all
- 23 got pictures. I think all the predominant themes of
- 24 the discussion are well-documented and we need to be
- 25 rigorous, I think, about collecting all those.

- 1 Teasing out, as Commissioner Scott said, teasing out
- 2 the themes and really running down some of the
- 3 things that get said in these workshops.
- 4 You know, people have a certain experience
- 5 with their particular community action agency or
- 6 their particular WAP provider -- the Weatherization
- 7 Assistance Program -- or their particular Low Income
- 8 Energy Assistance Program, ESAP now, the Energy
- 9 Savings Assistance Program from the rate payer
- 10 funded side.
- 11 So we need to sort of true up, I think,
- 12 some of the things that we hear. Is that experience
- 13 typical? Is that a real thing that we need to work
- 14 on or is that just kind of a little bit of an
- 15 outlier? I think that that's going to generate some
- 16 work for us, so we need to do that work and work
- 17 with all of the nonprofits that you mentioned, Rob,
- 18 our partners on the ground who really are in tune
- 19 with all this stuff. This is a theme. How big a
- 20 deal is it? Does it impede delivery and how can we
- 21 improve and just really have a lot of iterative
- 22 discussion, but it's a good basis for establishing
- 23 relationships and gaining trust.
- I certainly felt that people were sort of
- 25 surprised and pleasantly so, to have an actual

- 1 Commissioner at the meeting. You know, that doesn't
- 2 happen that often and I think it should probably
- 3 happen more. But it was a good, I think, effort to
- 4 show that we're serious about this and that's true.
- 5 So in any case, I think rolling up all the
- 6 different themes that we get from these workshops
- 7 into systematically and then approaching the follow-
- $8\,$ up on this end with our partners is really the way
- 9 to ensure that that happens.
- 10 COMMISSIONER HOCHSCHILD: Well, first of
- 11 all thank you, Commissioner McAllister. It's great
- 12 you're able to do the meetings in Spanish. I'm
- 13 still struggling to hold on to my English.
- 14 So I haven't yet done my first workshop but
- 15 I did host, about six months ago, a roundtable for
- 16 about 12 environmental justice groups working on
- 17 renewables issues around the state. And one of the
- 18 things that came out of that, that I suspect will
- 19 come out in these future workshops, is really a
- 20 strong desire for ombudsman and central point of
- 21 contact for this mosaic of programs that are
- 22 available at the state and local level.
- 23 You think about what's out there and
- 24 working now, and (indiscernible) we have the MASH
- 25 Program and the SASH program and our low-income NSHP

- 1 Allocation and CARE and any other number of
- 2 programs, also at the local level. And a lot of
- 3 times the outreach for those is very poor or not at
- 4 all well known.
- 5 So there's kind of a desire, I think, for a
- 6 website and some point of contact who has knowledge
- 7 of the whole map of available programs. In addition
- 8 too, I think we're going to get some very concrete
- 9 new proposals for new renewables policies focused in
- 10 low-income communities. But that was just what
- 11 jumped out at me at my first conversation with all
- 12 the groups together.
- But I'm very glad we're doing this, and Mr.
- 14 Chairman, also just really appreciate you making
- 15 this now a subject of every meeting, because it
- 16 really is worthy of this kind of continued focus.
- 17 CHAIRMAN WEISENMILLER: One of the things
- 18 that you may want to take a look at is so they're
- 19 trying to have poster boards at these events with
- 20 the poster board providing some of the information
- 21 for the participants on some of the resources
- 22 available to them on energy.
- 23 So to the extent good alternatives or MASH,
- 24 just to make sure that people know -- and obviously,
- 25 Prop 39 -- you've got to make sure that they know to

- 1 really encourage their schools to participate in
- 2 those programs. So anyway, the more we can make
- 3 this concrete, the better.
- 4 Yeah, Andrew?
- 5 COMMISSIONER MCALLISTER: Yeah, I think in
- 6 my experience in the community meeting was that
- 7 there were people kind of at all different levels,
- 8 you know, just sort of people who were active in the
- 9 community with no special knowledge, but just kind
- 10 of wanted to be paying attention. Other people who
- 11 had a particular issue they wanted to talk about.
- 12 So the messaging, in a way it's almost like
- 13 okay we've got the local nonprofit that has people's
- 14 trust, that works with them on maybe toxics issues
- 15 and air quality issues as well as energy issues.
- 16 They have a credibility. You know, the Prop 39
- 17 education maybe is even best through them, sort of a
- 18 slide and a presentation.
- 19 But my feeling was it kind of was a little
- 20 bit abstract for people at some level, you know?
- 21 Same with like the ECCA Program, we bring low-cost
- 22 financing and free financing, and free capital
- 23 essentially, to some of the local governments and
- 24 public jurisdictions. But the citizenry that was at
- 25 the meeting that I went to, in any case, was sort of

- 1 not fully equipped to take that and run with it.
- 2 But the local nonprofit absolutely could talk to the
- 3 local government, stir up some interest, and see
- 4 what happens.
- 5 So I think as we think as we think about
- 6 what our ongoing communication is with the coalition
- 7 that's kind of developing around the Barriers
- 8 Report, I think there'll be some good stuff there
- 9 for our communications.
- 10 CHAIRMAN WEISENMILLER: Yeah. No, I think
- 11 again it's really important for us to be listening.
- 12 I mean, obviously my schedule's nutty enough, it's
- 13 hard -- anyway, ignoring that problem for a second,
- 14 but I think it's really great that the mechanism's
- 15 here. I certainly appreciate Alana and Emilio
- 16 working to set these up for opportunities for us to
- 17 listen to people. And to build this in, so it's not
- 18 just the normal suspects as part of the hearing
- 19 process here.
- 20 The one thing that actually -- I thought
- 21 that was a great presentation from the students this
- 22 morning.
- 23 Although the one that struck me was that I
- 24 guess -- you know, I guess Energy IV (phonetic) was
- 25 a small business. And it was located in Downtown

- 1 Oakland from the early '80s to the 2000s, which I'm
- 2 sure over time was a disadvantaged area, believe me.
- 3 But why weren't we doing -- we had rented spaced.
- 4 It might be old, cheap rented space, but it was
- 5 rented space, so the notion that you could do
- 6 something to that space -- not really -- nor was the
- 7 landlord likely to. So we're back to the issue that
- 8 Commissioner McAllister and I have struggled with in
- 9 758 of just how do you deal with rented space? But
- 10 I guess next year we get to revisit progress under
- 11 758 and see if we have made any progress on chipping
- 12 away at that. But again, this is sort of another
- 13 bite at that apple, tough as it is.
- 14 COMMISSIONER SCOTT: I would just add,
- 15 Chair, you mentioned the poster boards? So the
- 16 email that Alana sent out, I can't remember if it
- 17 was August 3rd, August 4th, but it was the first
- 18 day. It had the poster boards attached, so it may
- 19 be worthwhile for us to take a look if there are
- 20 changes we would like to make and get those to her.
- 21 So that she can do that for the upcoming community
- 22 meetings.
- 23 And I would follow on Commissioner
- 24 McAllister, to what you said about the PowerPoint
- 25 presentation. In that for the community

- 1 organization it was probably exactly tailored right.
- 2 But maybe for community members who don't follow
- 3 this stuff every day -- and if there are suggestions
- 4 that you have and we should follow up with
- 5 Commissioner Douglas as well -- again for the
- 6 upcoming community meetings.
- 7 I'm sure Alana would warmly welcome those
- 8 and I think the rest of us, as we do our follow on
- 9 community meetings, would warmly welcome that as
- 10 well.
- 11 CHAIRMAN WEISENMILLER: Well, before we
- 12 switch to Sylvia I'm just going to give folks in the
- 13 room or on the line, if they have a comment on this
- 14 section, this item? Please step forward or...
- 15 (No audible response.)
- 16 Well, okay so let's move on now to Sylvia,
- 17 please.
- 18 MS. BENDER: Let me get this organized in a
- 19 way that you can hear me. Let's talk from this
- 20 side.
- 21 Good morning Chair Weisenmiller and
- 22 Commissioners, my name is Sylvia Bender, Deputy
- 23 Director for the Energy Assessments Division. I'm
- 24 going to build on Rob's overview, and talk a little
- 25 more about integrated resource planning for the

- 1 publicly-owned utilities, and update you on our
- 2 activities in which we are engaged.
- 3 The Clean Energy and Pollution Reduction
- 4 Act introduces a new statewide scale for resource
- 5 planning to support California's efforts to meet a
- 6 goal of achieving 40 percent reduction in greenhouse
- 7 gas emissions below 1990 levels by 2030.
- 8 Electricity service in California is
- 9 provided by a diverse array of load-serving entities
- 10 that includes large investor-owned utilities, small
- 11 and multi-jurisdictional investor-owned utilities,
- 12 publicly-owned utilities, community choice
- 13 aggregators, cooperatives, and energy service
- 14 providers. Numerous policy mandates, including
- 15 among them energy efficiency, demand response,
- 16 renewables, energy storage, and electric vehicles,
- 17 are already in effect for these entities.
- 18 SB 350's overall greenhouse gas framework
- 19 brings multiple entities and policies together in a
- 20 new planning paradigm.
- 21 The legislation lays out separate paths for
- 22 the Energy Commission and the California Public
- 23 Utilities Commission in quiding resource decisions.
- 24 Public utilities will submit resource plans, or
- 25 IRPs, and updates to the Energy Commission, who will

- 1 review them, provide recommendations if they are not
- 2 consistent with stated requirements.
- 3 The Energy Commission may also propose and
- 4 adopt guidelines for the submission of information
- 5 and data that we need from these public utilities.
- In today's update, I would like to focus on
- 7 the requirements for what has to happen, who is
- 8 required to comply, and by when, along with giving
- 9 you a look at some of the next steps moving forward
- 10 that we are engaged in.
- 11 SB 350 set a threshold for a filing
- 12 requirement for public utilities -- an annual
- 13 electrical demand exceeding 700 gigawatt hours
- 14 averaged over 3 years. The plans are to be adopted
- 15 by local public utility boards, and then filed with
- 16 the Energy Commission on or before January 1st,
- 17 2019, with a process to update them every five
- 18 years.
- 19 Guidance for the CPUC-regulated load
- 20 serving entities is ongoing in a proceeding there.
- 21 CPUC staff have just released their initial concept
- 22 paper, proposing a set of guiding principles and
- 23 identifying options for the essential elements of
- 24 the process. All load-serving entities except for
- 25 the POUs will file their plans with the Public

- 1 Utilities Commission starting in 2017.
- There are 16 POUs required to file IRPs
- 3 under SB 350. Combined, these utilities cover 95
- 4 percent of the total POU retail sales. Even within
- 5 this threshold, diversity is apparent among these
- 6 16. Los Angeles of Department of Water and Power is
- 7 the largest municipal utility in the country. The
- 8 City of Vernon is nearly all industrial customers;
- 9 the City and County of San Francisco is served
- 10 primarily by hydroelectric resources while Anaheim
- 11 has coal-fired energy purchase obligations for
- 12 almost two-thirds of its needs.
- 13 SB 350 lays out a series of goals that the
- 14 load-serving entities must demonstrate through their
- 15 plans how they will reach them. The goals for the
- 16 IRP processes are the same for all entities and are
- 17 itemized on this slide. The two key ones at the
- 18 top, we've talked about pretty much already: the GHG
- 19 emissions targets, the 50 percent renewables, but we
- 20 also have goals for just and reasonable rates,
- 21 minimizing bill impacts, reliability, maintaining
- 22 diversity, sustainability, resilience of our
- 23 transmission distribution systems, local
- 24 communities, and also localized pollutants --
- 25 especially in disadvantaged communities.

- 1 SB 350 requires utilities to establish
- 2 integrated resource plans that combine existing
- 3 procurement requirements into a common planning
- 4 process within a framework of greenhouse gas
- 5 emission reductions targets. POUs will develop a
- 6 portfolio containing combinations of supply-and
- 7 demand-side resources to meet those policy goals
- 8 that were itemized on the previous slide.
- 9 The IRP documents the choices that each
- 10 entity makes, given the particular mix of their own
- 11 available resources and their customer base.
- 12 Multiple scenarios may be evaluated to see how
- 13 different portfolios stack up against a set of key
- 14 objectives and metrics. The required contents of
- 15 the IRPs are linked and connected to other existing
- 16 agency proceedings and mandates, such as energy
- 17 efficiency, such as accelerating electric vehicles,
- 18 for example.
- 19 On April 18th, the Energy Commission held a
- 20 workshop in which we heard presentations from the 16
- 21 POUs about their current planning processes.
- 22 Existing plans are quite diverse in scale and
- 23 content. Roughly half of these utilities file IRPs
- 24 with the Western Area Power Administration.
- 25 However, these tend to be quite short, with only a

- 1 five-year planning horizon, not looking at 2030.
- 2 And apparently have an unenforced annual update
- 3 requirement.
- 4 The planning documents from some of the
- 5 others are quite well-organized and contain energy
- 6 forecasts, sufficient technical detail about
- 7 transmission resources and demand-side programs,
- 8 even cost/benefit comparisons for a number of
- 9 possible portfolios.
- 10 The current IRPs, however, are not
- 11 comprehensive enough to meet the specific
- 12 requirements of SB 350, such as the GHG emissions
- 13 reductions, the doubling of energy efficiency, the
- 14 50 percent RPS and transportation electrification
- 15 through 2030.
- 16 In the workshop comments filed by the POUs
- 17 after the workshops, these are a summary essentially
- 18 of what we heard: the POUs would like the Energy
- 19 Commission to recognize that they do have IRP
- 20 processes in place now, some quite sophisticated and
- 21 analytical.
- In the comments, they provided these points
- 23 for us to consider about any new submittals or
- 24 review process: local governing authority
- 25 jurisdiction and approval processes should remain in

- 1 place; no one-size fits all template, timelines or
- 2 procedures will work; IRP is policy direction from
- 3 governing bodies, not a determinative or detailed
- 4 roadmap; nothing in the legislation gives the Energy
- 5 Commission authority to approve, revise, or reject
- 6 the IRPs, nor to enforce any recommendations or
- 7 impose any penalty; and lastly, leveraging existing
- 8 filing requirements, if possible, would really help.
- 9 So moving forward, staff is discussing
- 10 several IRP workshops over the next 12 months in
- 11 which the main activities would be developing
- 12 baselines, some basic planning assumptions, and
- 13 metrics, outlining a process for plan review,
- 14 additional data requests, or clarification and
- 15 addressing these concerns raised from the April
- 16 18th. And then finally presenting initial proposals
- 17 for quideline contents.
- The goal will be to finalize the POU
- 19 guidelines by fall 2017, and have these guidelines
- 20 informed by other Energy Commission SB 350
- 21 workshops: namely in transportation electrification,
- 22 renewable procurement, and energy efficiency.
- 23 Implementing the processes envisioned under
- 24 SB 350 will also require coordination and
- 25 collaboration across multiple agencies. This is not

- 1 just work that's being undertaken by the Energy
- 2 Commission staff. The process alignment agreement
- 3 that was started under the Joint Agency Steering
- 4 Committee for our demand forecast is a good model
- 5 for SB 350 implementation. The JASC, as it's known,
- 6 is responsible for keeping multiple agency processes
- 7 that impact this demand forecast and its
- 8 availability for use in other proceedings.
- 9 The current IRP coordination activities are
- 10 underway on a number of fronts. The Energy
- 11 Commission is holding ongoing meetings with 16 POUs
- 12 who are required to file the IRPs. We've had one so
- 13 far that was quite successful and we plan to keep
- 14 them in the loop over the process going forward.
- 15 A technical staff working group that
- 16 incorporates CEC, CPUC and ARB staff is going to
- 17 begin working on a set of common assumptions where
- 18 these are appropriate, and metrics where these are
- 19 needed. We're hoping that these will ensure data
- 20 compatibility and comparability across the IRPs and
- 21 some consistency in their aggregation and review.
- We also hope that this work will establish
- 23 GHG emissions baselines against which we can
- 24 evaluate progress, both by the individual load-
- 25 serving entities as well as the State. For example,

- 1 even in the federal Clean Power Plan.
- 2 Finally, we are moving forward to broaden
- 3 the JASC process alignment structure to incorporate
- 4 linkages across the CEC, ARB and CPUC IRP
- 5 proceedings, transportation electrification, and the
- 6 renewable proceedings.
- 7 So that concludes my presentation.
- 8 CHAIRMAN WEISENMILLER: Thanks, Sylvia.
- 9 Let's start out with, so part of my focus
- 10 recently has been on the GHG baseline question. You
- 11 know, if you look at the ARB they have the sort of
- 12 average utility numbers, which are for 2014 20
- 13 percent below the 1990 level. So the good news is
- 14 for the utility sector they're well on track for the
- 15 AB 32 goals and probably a good head start for SB
- 16 350.
- 17 On having said that, the next interesting
- 18 question is well what about the components? You
- 19 know, what about what is the baseline for LADWP or
- 20 PG&E or whomever? And that's really not there. And
- 21 certainly, Commissioner Randolph, who is a lead at
- 22 the PUC on the IRP processes, found out that
- 23 actually probably a month before I figured it out,
- 24 that there's no real baseline available at this
- 25 point. And so one of the initial questions is what

- 1 is the baseline there?
- 2 And obviously that ties into the ARB's Cap
- 3 and Trade, and any number of accounting issues. And
- 4 it turns out as you get into the accounting stuff it
- 5 becomes more and more complicated. A classic
- 6 example is on the Cap and Trade Program there's a
- 7 lot of following of imports of dirty stuff into
- 8 California. There is zero accounting for renewables
- 9 flowing out of California. Zero. Think about it
- 10 for a second, which might be more a clean power
- 11 plan. But having said that certainly most people's
- 12 forecast now is there's a lot of renewables excess
- 13 renewables today under EIM flowing out of
- 14 California. And there'll be progressively more over
- 15 time, so zero is -- or ignoring it is not a
- 16 particularly good approach.
- I guess also into that context geothermal
- 18 and biomass is assumed as zero emissions, zero. You
- 19 know, again think about it for a second. I'm not
- 20 saying at large, but zero's not a good number.
- 21 So that's probably one of the more
- 22 fundamental baselines for this activity. As I said
- 23 it's a good opportunity to tie together our
- 24 agencies. Also it connects to the ISO, which can
- 25 track a lot of the coal flows in the west or at

- 1 least going around California. And that's certainly
- 2 been a conversation for discussion in the EIM
- 3 context, although again the accounting can get mind-
- 4 numbingly complicated.
- 5 So I mean that's sort of the big one.
- 6 Having said that you get to the question of well
- 7 what is the baseline for zero emission vehicles?
- 8 What is the baseline -- and which we had the
- 9 workshop on in the IEPR -- was the baseline on
- 10 energy efficiency. I guess, renewables I don't know
- 11 if you really have to worry about a baseline. It
- 12 just says get to the target here, but again you get
- 13 to that stage a lot of baseline stuff has to be
- 14 sorted out in a consistent fashion among the
- 15 agencies to work on the pieces.
- 16 As Sylvia indicated the ARB has just -- I
- 17 mean I guess it's actually been out now -- I'm going
- 18 to say it's been sent out for basically as the
- 19 compliance plan for California's Clean Power Plan.
- 20 And so an issue for them is obviously what is the
- 21 compliance of the various folks with that plan?
- 22 And similarly in that area, as I talk to
- 23 WAPA folks over time, I anticipate it would be
- 24 really good as part of this efficiency part, really
- 25 consolidate what we're doing with what WAPA is

- 1 requiring under its IRP part; their review for
- 2 basically the preference customers. And I would
- 3 certain anticipate that they will also pick up
- 4 compliance with the Clean Power Plan as part of
- 5 their requirements there for review. So again,
- 6 there's a lot of motion here. A lot of coordination
- 7 in state and federal, among the state agencies,
- 8 that's going to have to occur.
- 9 Also, there's an interesting question I
- 10 guess, we need to sort out with the PUC is now that
- 11 the City and County of San Francisco have a CCA are
- 12 they our headache or Picker's headache, which they
- 13 may just send Kirkwood our way. I guess the
- 14 question is whether the City and County of San
- 15 Francisco goes their way. But anyway that's going
- 16 to be one of the, I'm sure, many interesting legal
- 17 questions.
- Do you want to talk about what's you're
- 19 planning?
- 20 COMMISSIONER SCOTT: So, for the
- 21 transportation electrification component of the IRP
- 22 Tim Olson is leading that work up for the
- 23 Transportation team currently. He's working closely
- 24 with folks on Sylvia's team, David Vidaver and
- 25 others, as they're also thinking about what needs to

- 1 go into the forms and those types of things.
- 2 We are planning to have a workshop in
- 3 October. I can't remember the exact date off the
- 4 top of my head. I can maybe look it up while we're
- 5 talking and let you all know. We will have a -- at
- 6 the beginning of the workshop we will hear from a
- 7 sampling of the 16 POUs or SCPPA or someone like
- 8 that to talk with us about what types of things they
- 9 are considering including that would help make them
- 10 compliant SB 350 requirements.
- 11 Then we will also hear from a series of
- 12 experts like Nancy Ryan and others in the field, if
- 13 they were designing what it should look like. What
- 14 would they include? And so that'll be our initial
- 15 workshop to really kind of dig into what type of
- 16 information do we want to gather? How do we want to
- 17 gather it and what should it look like?
- 18 We're also hoping to coordinate closely
- 19 with the Public Utilities Commission on this as well
- 20 to make sure that even if we end up collecting
- 21 slightly different types of data the key information
- 22 can be translated across the documents, so that if
- 23 you're looking for a specific number you could
- 24 compare what the City of Burbank does with what PG&E
- 25 does with what LADWP does with what SMUD or SCE --

- 1 like that number should have the same units, right?
- 2 So that you can kind of compare across whatever
- 3 utility you're looking at.
- 4 So we're going to be looking at consistency
- 5 in comparing it to some type of things like that as
- 6 well. So that's coming up in October. We're still
- 7 working to design that. We haven't noticed it yet,
- 8 but I do believe we've held a date on the calendar,
- $9\,$ so I can let you all know more. But that's where we
- 10 are in transportation electrification.
- 11 CHAIRMAN WEISENMILLER: I'm just going to
- 12 make a couple of comments. I mean, one is I know,
- 13 in a 350 context Mary Nichols and I had different
- 14 conversations with the Porifera general managers.
- 15 And one of the things in the ZEV side that was clear
- 16 was that for the IOUs you put a charger in, you
- 17 build rate base. And you build rate base you get
- 18 more profits for shareholders. Life is good.
- 19 You know, for the POUs there's not the same
- 20 motivation. And so one of the things Mary asked us
- 21 to focus on is well, what are the incentives that
- 22 the POUs might need in this area?
- 23 Going forward, and certainly the other
- 24 thing that I think President Picker has asked me,
- 25 that we can focus on, is from his perspective the

- 1 POUs are a part of local government. So they
- 2 communicate, connect to their local entities. The
- 3 IOUs don't have the same connectivity there. I
- 4 mean, they're as likely to put chargers near
- 5 substations as opposed to here's a city garage or a
- 6 transportation plan and you really want to put them
- 7 there.
- 8 And so one of the things to look at is
- 9 potential lessons learned from what the POUs are
- 10 doing that can then inform better what the IOU
- 11 programs are in terms of effectiveness.
- 12 COMMISSIONER MCALLISTER: Well, so thanks
- 13 Sylvia, for that. I'm very excited about the IRP
- 14 process kicking off.
- 15 You know, from I think one of the
- 16 challenges -- to sort of build on something the
- 17 Chair said earlier -- we have a lot of different
- 18 goals for our renewables. One of the easier ones,
- 19 because we can actually measure it, is efficiency
- 20 and other demand-side certainly programs that impact
- 21 what the load shape looks like.
- Those resources are part of the IRP
- 23 planning, and so we have a doubling of energy
- 24 efficiency goal. Well, what does that actually
- 25 mean? And again we have a baseline issue, but

- 1 beyond that we actually have a measurement issue.
- 2 Even if we have a baseline we have a measurement
- 3 issue. Okay, how do we know what metrics are we
- 4 using? What monitoring and verification are we
- 5 using to say, okay energy efficiency has increased
- 6 by X. Are we meeting our goal?
- 7 So as we move forward with the IRP
- 8 discussion and the broader forecasting discussion I
- 9 think it's really important to make sure that we
- 10 have the tools we need to be able to really judge
- 11 how progress is coming along in a reasonably
- 12 rigorous fashion. And 350 lays out some potential
- 13 buckets and it's got ten or so sources of energy
- 14 savings and demand side, small-scale renewable
- 15 distributed energy, where those resources might come
- 16 from. We have PACE programs, we have local codes
- 17 and standards. We have a whole bunch of different
- 18 buckets that we could say, okay well Prop 39 is
- 19 called out there.
- 20 Well, teasing apart what's causing which
- 21 savings isn't necessarily something we have to do
- 22 down to every detail, but we do have to say -- I
- 23 think we do need to know this is a market
- 24 transformation kind of -- it all adds up to a market
- 25 transformation that's going to improve efficiency

- 1 across the State. And we need to be able to
- 2 quantify that with a reasonable amount of rigor even
- 3 if we can't unpack every single influence that is a
- 4 piece of it. And that's true for the IOUs and the
- 5 POUs both.
- 6 So I think to the extent that we're going
- 7 to have this discussion and talk about what
- 8 information is going to go between all of us to
- 9 bolster the analysis, what do we have to do to
- 10 underpin it? We have to be as explicit as we
- 11 possibly can about what it is we're going to do and
- 12 what data, what information we're going to need to
- 13 be able to do it? And I think there's a fair degree
- 14 of consensus on that.
- I mean, I saw your slide about what we do
- 16 and don't have the authority to require. But
- 17 certainly accountability, I think, is something that
- 18 we do have to achieve whether it's on our end or the
- 19 utility's end. So I think that should be sort of
- 20 something that we all can all accept. But I think
- 21 the IRP process really lays out the important
- 22 questions that we need to answer, so I'm pretty
- 23 excited to get the discussion moving.
- 24 CHAIRMAN WEISENMILLER: Yeah, just
- 25 following up on yours, I think the good need to

- 1 really emphasize the POUs is unlike the PUC's last
- 2 IOUs we don't have an incentive program. We don't
- 3 have to go into the EMV nightmare.
- 4 COMMISSIONER MCALLISTER: Yeah.
- 5 CHAIRMAN WEISENMILLER: But I think what
- 6 we're looking for is more like well what's your plan
- 7 to double energy efficiency? Some way of trying to
- 8 track it, but again without complicated overlay, and
- 9 I think the good news from my perspective is there
- 10 is a lot of creativity and imagination at the local
- 11 level.
- 12 So that I think looking at what the POUs
- 13 are doing in that area could provide a lot of
- 14 interesting insight to us. And again potentially
- 15 provide some feedback for the PUC on how they can do
- 16 their programs better or frankly how we can up our
- 17 building appliance standards or some of our programs
- 18 to do this better.
- 19 COMMISSIONER MCALLISTER: Yeah. Totally
- 20 agree and I guess the beauty of the flexibility that
- 21 they have at the local level with the POUs is they
- 22 don't have to say, "Okay, well exactly this many
- 23 kilowatt hours or this program or that program." I
- 24 mean, they'd like to know for process improvement,
- 25 but fundamentally -- and we actually don't

- 1 necessarily care all that much about which
- 2 particular initiative created those particular
- 3 savings, right? We want a macro view of are the
- 4 goals being achieved and what are the metrics, you
- 5 know, the macro metrics.
- 6 So unpacking it is something the
- 7 Legislature would like us to do. They called it out
- 8 in the law, but I think the sort of analytical
- 9 expectation there is probably lower than okay
- 10 exactly how many are this or that program? I think
- 11 if we can make a reasonable narrative that more
- 12 projects are happening, energy is being saved, and
- 13 the marketplace is growing for these kinds of
- 14 projects, then we can clearly link that to a market
- 15 transformation effort more broadly.
- 16 And so that, by definition, is a whole
- 17 bunch of things happening at once that are related
- 18 and are complimentary and don't necessarily lend
- 19 themselves to a specific attribution. So I feel
- 20 like that's kind of the narrative that I have in
- 21 mind that we want to be able to build over time.
- 22 And absolutely, agree with you, learn from each
- 23 local jurisdiction, each POU. If they're doing
- 24 something that works then we will be in a position
- 25 to see the differences in reality on the ground over

- 1 time and highlight them. And that's to everybody's
- 2 benefit.
- 3 CHAIRMAN WEISENMILLER: Yeah, I was just
- 4 going to -- we had the workshop on baseline. We're
- 5 intending to have a workshop on sort of program
- 6 design. Certainly one of the things President
- 7 Picker is very concerned about is this status quo on
- 8 energy efficiency quotas is not going to represent a
- 9 doubling. I mean, just let's face it.
- 10 And basically that's going to require a
- 11 fairly coordinated effort between the PUC and Energy
- 12 Commission, again to really put these programs on
- 13 steroids. And so that's again an opportunity when
- 14 that's scheduled for the POUs to talk about some of
- 15 their ideas going forward in this area.
- 16 COMMISSIONER MCALLISTER: And the AB 758
- 17 context, I think, is pretty important. We've
- 18 already got this conversation going on for the last
- 19 several years. We have an adopted plan. We're
- 20 going to be doing an update of that plan by the end
- 21 of the year is the goal to refresh the 758 Action
- 22 Plan. And that's part of the doubling, a core part
- 23 of the doubling conversation.
- 24 And I think you're absolutely right, it's
- 25 not just going to double itself, which is why -- and

- 1 I actually don't necessarily think we ought to
- 2 expect the programs as we have them more or less
- 3 structured now should be on the hook for the entire
- 4 doubling. If it happens outside of programs I'm
- perfectly okay with that. If the marketplace does 5
- 6 more projects and doesn't get incentives from
- 7 programs that's actually better in a lot of ways.
- 8 But the value proposition has to be there and the
- 9 marketplace has to kind of come through.
- 10 So a big part of the discussion is what do
- 11 we have to do? What policy initiatives can we put
- 12 in place? What sorts of activities can help the
- 13 marketplace along when it's trying to grow this
- 14 sector of the construction industry, you know,
- 15 retrofitting existing buildings.
- 16 And so as an ongoing problematic,
- 17 certainly rented space, multifamily, disadvantaged
- 18 communities, all of the small business, we've heard
- 19 a lot of that today but all of these are kind of --
- 20 different business models are going to be needed to
- 21 address them. And that's happening to a great
- 22 extent, I don't want to say that we're starting from
- 23 zero, because we're not. But we do need to get some
- 24 scale.
- 25 Programs are part of that, but they're

- 1 certainly not the whole story. And doubling is just
- 2 going to take kind of a lot of different
- 3 initiatives, everybody rolling up their sleeves.
- 4 But the goal is that the marketplace finds a way to
- 5 make some money doing this and can get some scale,
- 6 and some systematic offerings that have traction
- 7 enough that they can help us reach our doubling
- 8 goal.
- 9 So, you know, I think this IRP discussion
- 10 and some of the broader discussions in SB 350 will
- 11 help us frame and develop new approaches going
- 12 forward in addition to the ones we've been using.
- 13 COMMISSIONER HOCHSCHILD: Yeah, and to your
- 14 point, Commissioner, I think that's one of the
- 15 reasons why the Governor's been so insistent on the
- 16 PACE Program. You know, you look at that basically
- 17 doubling in size in the last year and where that can
- 18 go.
- 19 But just to restate the obvious, as it
- 20 pertains to renewables obviously the more successful
- 21 we are on efficiency the easier the renewables
- 22 target is to achieve, because it's 50 percent of a
- 23 smaller number. And to that point, you look at
- 24 total system power it actually went down half a
- 25 percent from 2014 to 2015. That's because of our

- 1 efficiency work and because of the growth in
- 2 distributed clean energy generation. And so that
- 3 makes everybody's job easier.
- 4 We are also planning a Commissioner
- 5 workshop on POUs and the IRP for the fall. I
- 6 haven't picked date yet, but I did talk to staff
- 7 about it. And part of the reason I hadn't wanted to
- 8 do it earlier, we kind of wanted to wait in case
- 9 there was SB 350 cleanup language that affected the
- 10 IRPs, but so probably in the October, November
- 11 timeframe.
- 12 And I would say I think one thing about the
- 13 Energy Commission's ability to help here is really
- 14 we have a hard power which I think of as our regs
- 15 and our money. And then there's the soft power,
- 16 which I think of as thought leadership and
- 17 convening. And this really falls principally under
- 18 that convening role.
- 19 I do think there's a lot of value in
- 20 gathering the POUs together and having exchange of
- 21 what's working, how people are thinking, and when
- 22 there's golden creative thought going on,
- 23 propagating that. I really think that's critical
- 24 here and fostering that exchange, I think it will
- 25 get much more robust in that area.

- 1 So thank you, Sylvia, for your overview.
- 2 CHAIRMAN WEISENMILLER: Yeah, just to
- 3 follow up for a second on that. I think again, we
- 4 know our relationship with the POUs is different
- 5 than the PUC's relationship with the IOUs. But it's
- 6 a fair question to say, "Well, what is your plan to
- 7 get to 50 percent?"
- 8 And again realizing there's a lot of
- 9 variation and creativity. You know, I expect many
- 10 of you will source it based upon local resources and
- 11 so you might see Imperial Valley do a lot of
- 12 geothermal while you might see others do a lot of
- 13 wind. I'm just saying again, I think this is one
- 14 where it's a challenge going forward, but again I
- 15 think we're looking forward to seeing the creativity
- 16 that's going to come out from the POUs on this
- 17 level.
- 18 And part of that I keep messaging people
- 19 that the world's changing fast. I mean, when you
- 20 look as we add more and more zero marginal costs on
- 21 renewables into the system, wholesale prices are
- 22 going down. I mean, so in terms of the reality on
- 23 what that means for your revenues unless you're
- 24 adapting -- and certainly renewables are coming.
- 25 You can try to be like King Canute and say don't

- 1 come, but they're here and there are going to be
- 2 more. So just you need to start rethinking your
- 3 planning to deal with the realities of what's going
- 4 on with the resource mix.
- 5 So again, we're happy to take any public
- 6 comment?
- 7 COMMISSIONER SCOTT: May I? I had one more
- 8 thought on this, which is that I wanted to pick up
- 9 on something Commissioner Hochschild just said. So
- 10 as Commissioner McAllister's work on energy
- 11 efficiency makes his work easier, our work on
- 12 transportation electrification actually will make
- 13 your work harder. (Laughter.)
- 14 And so going forward we really are going to
- 15 need robust estimates, robust scenarios about how
- 16 much demand we're expecting from transportation
- 17 electrification. And I think that's going to be an
- 18 important component as we put all of these systems
- 19 together.
- 20 CHAIRMAN WEISENMILLER: So please, any
- 21 public comment either in the room or on the phone?
- 22 Come on up.
- MS. DERIVI: Good afternoon, Commission.
- 24 I'm Tanya DeRivi with the Southern California Public
- 25 Power Authority. Thank you very much for the kind

- 1 words about Public Power, we're pretty proud of our
- 2 role in our communities as well.
- I just wanted to flag a few issues for the
- 4 staff's and Commission's consideration. One was on
- 5 the timeline of potentially not seen draft
- 6 guidelines or final guidelines until fall of 2017.
- 7 We have a very diverse mix of SCPPA members. Eight
- 8 of them are the affected utilities, as large as
- 9 LADWP and IID.
- 10 These IRP planning processes can take
- 11 anywhere from 18 to 24 months to do, which means
- 12 that some of our utilities are going to start this
- 13 process in hopeful compliance for submitting by
- 14 January 1st of 2019 early next year. And I don't
- 15 think they're going to be able to wait too long,
- 16 because we are entities of the government and it
- 17 does take quite a bit of time to go through
- 18 community planning processes. So that's an issue of
- 19 consideration we'd like the staff to consider.
- Other issues that we would like help on is
- 21 a bit more coordination with, particularly the Air
- 22 Resources Board, on some policies that are being
- 23 considered. Especially under the 2016 Cap and Trade
- 24 Program amendments that seem to be a bit
- 25 contradictory as far as Cap and Trade versus the

- 1 Renewable Portfolio Standard. So we'd like to get
- 2 some additional coordination on that front as well,
- 3 particularly for out-of-state renewables development
- 4 with the regionalization being considered going
- 5 forward into next year.
- 6 One other issue, transportation
- 7 electrification, there was an amendment in SB 350,
- 8 which included getting credit through the Cap and
- 9 Trade Program. We're a little worried that that's
- 10 going to be delayed until 2020 if not later. And
- 11 that a potential methodology for counting that could
- 12 be so difficult that no one would be able to
- 13 actually get credit for transportation
- 14 electrification.
- 15 So to the extent that we can work with the
- 16 Energy Commission to develop some sort of
- 17 methodology that would make ARB comfortable, that
- 18 would also be a really helpful development.
- 19 We have also already had meetings with Air
- 20 Resources Board staff about the GHG targets. One of
- 21 the issues that they had raised was setting ranges
- 22 rather than specific targets since we are a subset
- 23 of only one industry, so setting a specific target
- 24 for a specific utility under the Cap and Trade
- 25 Program puts us a little bit in the anxiety mode

- 1 when others don't have those targets.
- 2 So there's just a few issues we wanted to
- 3 raise for the Commission.
- 4 CHAIRMAN WEISENMILLER: No, I appreciate
- 5 that. I was going to encourage Rob and Sylvia to
- 6 sit down with you and work out what schedule makes
- 7 sense. Because that was one of the things that
- 8 really struck me in the IRP workshop we did have, is
- 9 that timing was scattered. And some of you don't
- 10 have -- again, very limited resources -- so it's a
- 11 one-shot deal between now and the first compliance
- 12 period. So we need to have a theory that can work
- 13 on making this -- what do we need to do? And it
- 14 sounds like we need to push up the timing on the
- 15 quidelines.
- 16 I think again, on the ARB, anything you can
- 17 do to flag the issue. Obviously you've been in
- 18 pretty close communication with Mary and Picker or
- 19 actually it's more Leann and Steve on these issues,
- 20 on where you think there's an issue. I'd like to
- 21 hear about that. And like I said on the incentives
- 22 for electrification I think, at least in my
- 23 interpretation, is Mary wants us to do will with
- 24 that -- "we."
- 25 So I'm looking at Janea, so basically if we

- 1 can tee that up and make progress on it that'd be
- 2 great.
- 3 MS. DERIVI: Thank you.
- 4 CHAIRMAN WEISENMILLER: Yeah.
- 5 Anyone else either in the room or on the
- 6 line?
- 7 (No audible response.)
- 8 Okay, great. So let's go on to Item 13,
- 9 minutes.
- 10 COMMISSIONER SCOTT: Move approval of the
- 11 minutes.
- 12 COMMISSIONER MCALLISTER: Second.
- 13 CHAIRMAN WEISENMILLER: All those in favor?
- 14 (Ayes.)
- 15 CHAIRMAN WEISENMILLER: The minutes are
- 16 approved 4-0.
- 17 Let's go on to Lead Commissioner Reports,
- 18 Commissioner Scott?
- 19 COMMISSIONER SCOTT: I have one report for
- 20 you all. It's been a very busy month, but I wanted
- 21 to highlight the Plug-In Vehicle Collaborative had
- 22 our in-person meeting just a few weeks ago.
- 23 And the Plug-In Vehicle Collaborative is
- 24 working to transition itself from the organization
- 25 that it is now, which is actually not an

- 1 organization. It's a bunch of people who love plug-
- 2 in electric vehicles. And we've been working
- 3 together for many years, but we're not an entity.
- 4 We are working to change ourselves into an entity.
- 5 It'll probably be a 501(c)(3), become incorporated.
- 6 We're looking for a name folks. We were
- 7 looking at "Drive California," but that is a -- it's
- 8 for folks in California who are immigrants who are
- 9 looking to get driver's licenses. So "Drive
- 10 California" is already taken, so we need to look for
- 11 a new name, a new kind of identify for our new
- 12 entity.
- 13 The new entity is going to really be
- 14 focused on the education and outreach component of
- 15 electric vehicles. Really wanting to make sure --
- 16 it turns out UC Davis has done a study and most
- 17 people don't actually know that an electric vehicle
- 18 is even an option, much less any of the incentives
- 19 or things that go along with it. So we really want
- 20 to kind of raise the bar on that.
- 21 The idea is it would be a nonprofit.
- 22 Probably the very first -- the two first people that
- 23 would need to be hired are the Executive Director
- 24 and the Fundraiser. The Fundraiser would be looking
- 25 to try and get some big dollars in. We have a

- 1 request for a proposal on the street right now to
- 2 try to understand what a \$5 million budget, a \$10
- 3 million budget, and I can't remember what the high
- 4 number was, it's not a bunch over \$10 million --
- 5 what are the types of things that an entity like
- 6 this could do? What would a campaign look like,
- 7 where are the best places to start doing that
- 8 fundraising.
- 9 And so we're working on this transition.
- 10 This transition, we're hoping that we'll be able to
- 11 launch our new entity at the beginning of the year,
- 12 our first quarter of next year. And they're also
- 13 still considering whether or not -- a lot of the
- 14 members really like the idea of the new entity, but
- 15 they still want to have the member meetings.
- 16 The member meetings have been really
- 17 interesting and valuable. They've been a great
- 18 chance for us to talk about some of the cutting edge
- 19 activities that are taking place. We had a really
- 20 good one on Vehicle Grid Integration at the CAISO
- 21 about a year ago. It's a really good place to kind
- 22 of get hot-off-the press information.
- 23 And the members really still appreciate
- 24 that. And so to run those types of meetings is a
- 25 little bit different than what your typical

- 1 nonprofit would do, so when we continue to have it
- 2 as the nonprofit -- but it'll also have a membership
- 3 organization component to it, so that we're able to
- 4 continue those types of meetings. The nonprofit
- 5 itself however, would have a Board of Directors like
- 6 a usual Board of Directors and we're still kind of
- 7 looking through what that structure should look
- 8 like.
- 9 But that's what the Plug-In Vehicle
- 10 Collaborative has been working on that I wanted to
- 11 highlight for you. So we're making a transition
- 12 from our sort of loosely affiliated set of folks to
- 13 an actual entity that again, will be a nonprofit.
- 14 And it's goal will be to increase outreach and
- 15 education in the electric vehicles base.
- 16 CHAIRMAN WEISENMILLER: Great. Any chance
- 17 you can get them to come up with a new name for the
- 18 ARFVTP (indiscernible) just a little bit more --
- 19 COMMISSIONER SCOTT: I'll just add that in,
- 20 a new task order, yep.
- 21 And that's my report for you all.
- 22 COMMISSIONER MCALLISTER: Yeah, just
- 23 briefly. You know, we've talked about the Barriers
- 24 workshop. It was a good thing and (indiscernible) a
- 25 lot to build on.

- 1 And then I'm assuming, Chair, you'll talk
- 2 about the Regionalization workshop that we had on SB
- 3 350 that the ISO drove a couple of weeks ago? I
- 4 found that very interesting and there've been some
- 5 developments since then in terms of the plans for
- 6 even the regionalization, but I'll let you cover
- 7 that.
- 8 Let's see, I did have a NASEO Association
- 9 of State Energy Officials Board Meeting back in D.C.
- 10 a few weeks ago. And a lot of the topic of
- 11 conversation in D.C. these days is, "Whoa gosh, what
- 12 does our Transition Plan look like?" And there's
- 13 really no way to know really what the transition
- 14 will look like; two very, very different scenarios.
- 15 But I'm always heartened at getting all the
- 16 states together, because we almost always have more
- 17 in common than differences. Although there's an
- 18 incredible diversity and I feel like it's
- 19 particularly important for California to be in the
- 20 room just helping people understand what's possible,
- 21 because we're doing so much. And we're putting so
- 22 many resources into the clean energy sphere and
- 23 doing proactive policy.
- 24 But actually when people look past some of
- 25 the rhetoric they may hear in their own states and

- 1 actually understand some of the details of what
- 2 we're doing they actually almost always come around
- 3 to, "Wow, that's pretty reasonable. It's assertive,
- 4 but it's reasonable and actually generates a lot of
- 5 public benefit."
- 6 So whatever you may think about the Clean
- 7 Energy Power Plan, and there's obviously lots of
- 8 diverse opinions about that as well, there's a lot
- 9 to like on what California is doing. So I feel like
- 10 that evangelical kind of role is also very, very
- 11 helpful.
- 12 You know, the State's official energy
- 13 agencies are members of NASEO and so it does matter
- 14 that they hear these things. And I think it's a
- 15 good organization, very competent organization to be
- 16 affiliated with.
- 17 And then similarly about the State Energy
- 18 Advisory Board, which is a DOE Board, which has had
- 19 a lot going on as well mostly revolving around the
- 20 transition. So I think we're making recommendations
- 21 to DOE about what they could be doing, and from a
- 22 state's perspective what they ought to be doing to
- 23 focus on establishing continuity into the next
- 24 Administration -- is really job number one right now
- 25 for STEAB. And so any ideas on either front that

- 1 you all have, I'd love to take them back and get
- 2 them sort of incorporated as possible into an
- 3 official statement to DOE on that.
- 4 So yeah, that's all, my report for now.
- 5 COMMISSIONER HOCHSCHILD: I'll just touch
- 6 on briefly what's been happening this week.
- 7 Obviously, the Chairman has put a lot of effort into
- 8 the relationship with Mexico and my Chief of Staff,
- 9 Emilio, has been coordinating with this delegation
- 10 of about six officials from Mexico including three
- 11 Commissioners from Cray, (phonetic) which is one of
- 12 the key energy policy making bodies there. And I
- 13 participated on Monday. We led them on a tour of
- 14 SolarCity, Stanford, Google, and Tesla.
- 15 I've been now on four consecutive tours to
- 16 the Tesla's factory starting when it was the GM
- 17 Toyota Plant. And I will just say, I mean even
- 18 since I was there a year ago, the change is
- 19 remarkable. It's 15,000 employees now at Tesla.
- 20 They are on track to do half a million cars annually
- 21 by 2018. And just the momentum, seeing all the new
- 22 machinery and the caliber of people they are
- 23 attracting, it really did fill me with hope. And
- 24 obviously we've been a part of that with our \$10
- 25 million grant to Tesla.

- 1 And I do think it does help officials from
- 2 other countries to think big when they see the scale
- 3 that they can get to, and how quickly that can
- 4 happen. In a lot of my talks I built this slide
- 5 that just says "GM, which started 107 years ago and
- 6 it took a century to become a \$50 billion company,
- 7 right? Tesla started in 2003, they're at \$34
- 8 billion now." I mean, you kind of play that out
- 9 over the next few years and you can see the trends
- 10 and just how quickly this can take hold.
- 11 So that was really a highlight. We've got
- 12 a bunch more meetings. Today they were at ISO.
- 13 We're doing a dinner with Senator de Leon and
- 14 Commissioner Peterman and Mark Ferron and others
- 15 tonight.
- But I really want to thank the Chair for
- 17 really initiating this relationship with Mexico and
- 18 the Governor's leadership, because I think it is --
- 19 first of all, I just want to say, talking to the
- 20 clean energy companies here in California we talk a
- 21 lot about job creation and so on. They all --
- 22 American California-based clean energy all
- 23 prioritized Mexico. I mean, that's the first
- 24 country -- the only place outside of the United
- 25 States where SolarCity opened an office and same

- 1 with Tesla.
- 2 And Elon Musk is going next month to open
- 3 the new showroom for Tesla and SunPower will tell
- 4 you the same thing and many others.
- 5 So that relationship, we are doing the very
- 6 opposite of building a wall. We really are building
- 7 a bridge and they've been just enormously receptive
- 8 and I'm very glad that this relationship has had the
- 9 strength that it's had.
- 10 CHAIRMAN WEISENMILLER: Thanks. I'll try
- 11 to be brief too, just a couple of things.
- 12 One is talking regional issues for awhile,
- 13 it's just interesting in a way, because there's been
- 14 this issue, "Gee, can we connect to PacifiCorp for
- 15 blah-blah?" And obviously one of the things
- 16 that we've been working with the Governor on is
- 17 trying to really chase where the carbon is in the
- 18 world and try to whack it out, be it China or
- 19 Mexico.
- 20 And so when people talk about the cultural
- 21 differences California and Utah you're going, "Guys,
- 22 you've never been to Beijing. You know, you've
- 23 never been to Mexico City." I mean, if you're
- 24 really trying to make progress, you can't just have
- 25 your little sphere and just talk to people in Marin,

- 1 right? You've got to really go where the greenhouse
- 2 gas emissions are and certainly that's part of it.
- It's also weird in that as you know,
- 4 PacifiCorp or Berkshire has invested 17 billion in
- 5 renewables in California. And they are the largest
- 6 company in Imperial, so how they're painted as the
- 7 dark forces -- again (indiscernible) scratching your
- 8 head going, how did you get yourself in that box
- 9 right, from a public perception? It's actually sort
- 10 of a marvelous opportunity to enable the sort of
- 11 transformation of PacifiCorp.
- Now, as Andrew said we had a workshop to
- 13 where basically the ISO -- we had two things. One
- 14 was sort of a benefit study and the other one was a
- 15 governance proposal. And this was sort of like the
- 16 -- anyways, we've had a series of workshops on
- 17 governance issues since there's sort of a number of
- 18 issues not to ignore.
- 19 One of them is what are the benefits? And
- 20 I'd have to say this is a pretty conservative study
- 21 that's saying by 2030, as opposed to when you first
- 22 start -- and this thing is going to start at 2020
- 23 anyway -- but 2030 is more when you're full bore.
- 24 And if you really (indiscernible) it's 1.3 or 1.5
- 25 billion plus, which as Dirksen said a billion here

- 1 and a billion there is real money. It's a
- 2 relatively small percentage and certainly from an
- 3 air quality perspective it reduces power plants in
- 4 the South Coast and San Joaquin, their emissions by
- 5 10 percent.
- 6 Now when you look there are a lot of other
- 7 things remaining on the South Coast and San Joaquin,
- 8 and power plants aren't really anywhere close to the
- 9 dominant source in this goods movement. But still
- 10 10 percent of power plant savings, if you get to
- 11 west-to-west end cumulatively from that 11-year
- 12 period it is equivalent to the utility sector's
- 13 greenhouse gas emissions for a year. So again,
- 14 there's a slight bump in 2020, but obviously
- 15 greenhouse gas issues, the issues are cumulative,
- 16 not any particular annual number.
- But so a pretty healthy benefit study, a
- 18 lot of calls for well we need more time. And it's
- 19 like, well let's specify the study and actually I
- 20 did tweak some of our friends just going, "Wait a
- 21 minute. You didn't sign an NDA. You didn't do any
- 22 discovery and now you say you need more time. Where
- 23 have you been since February with the workshops
- 24 occurring?"
- 25 And on governance, again it's really a

- 1 tough issue. There are others, the greenhouse gas
- 2 accounting is certainly complicated. The RA and the
- 3 TAC issues are complicated. But really, governance
- 4 is at the heart of it.
- 5 And basically the Governor sent a letter to
- 6 the Legislature saying, "Well, we're not going to
- 7 try to do it this month," to get it through. And
- 8 part of the reality is Cap and Trade is a huge issue
- 9 now. And I think the bandwidth for everyone -- I
- 10 don't think we're close enough to -- we made a lot
- 11 of progress on the regional issues. But we're not
- 12 there yet in terms of consensus. And there's a lot
- 13 of attention that has to be focused on Cap and Trade
- 14 this month.
- So it was pretty clear that this was going
- 16 to be a next-year issue, frankly. And we'd like to
- 17 get everything in, going into January and try to
- 18 deal with it then. But again, it was pretty -- it's
- 19 just the reality was that just given the timing and
- 20 everything else it's important to do it right. It's
- 21 important to do Cap and Trade right. So that part
- 22 of it was pretty clear.
- Like I said, I think it's still going to be
- 24 governance is probably one of the tougher ones to
- 25 deal with. You know, I think we're still working

- 1 through the next steps, there may well be a
- 2 transitional committee to try to bring in a broad
- 3 base of stakeholders to come to grips with some of
- 4 these issues. That was sort of a common suggestion.
- 5 Certainly there's a chance now for some of
- 6 the groups to get a chance to dig into the benefit
- 7 studies more. I think frankly as I said I don't
- 8 have a lot of sympathy for the utilities saying
- 9 that, but Greenlining and a lot of the EJ groups, I
- 10 mean this is pretty complicated stuff they don't do
- 11 for a living. So you sort of understand where they
- 12 -- some more time there would help. But certainly
- 13 everyone else could have a chance for more time too.
- But I think the idea is good progress,
- 15 there's more to do, I think a lot of focus and
- 16 certainly a lot of attention on Cap and Trade this
- 17 month. Again, this is a heavy lift even just with
- 18 that much less that in regional markets. So it's
- 19 certainly is a busy time.
- I also was just going to flag one of the
- 21 things, which I -- you know Aliso Canyon -- we've
- 22 got a workshop at the end of the month to talk about
- 23 Aliso Canyon and winter.
- 24 And also just WAPA issues, there's been a
- 25 lot of attention and it's a tough world, but just in

- 1 terms of there was a GAO Report, there was a WAPA
- 2 presentation, there was a Rebecca Smith article, all
- 3 on WAPA in terms of cyber security and physical
- 4 security issues. Which certainly after the Ukraine
- 5 and everything else has certainly haunted -- it's
- 6 not just WAPA, but I mean it's the entire utility
- 7 industry ranging from Edison down to Kirkwood or
- 8 whatever (indiscernible) the complexity there. But
- 9 certain WAPA has, as a government agency with line
- 10 item budgets, they go through a complicated process
- 11 for IT budget stuff or whatever. So trying to
- 12 respond to fast-growing problems has got to be
- 13 challenging.
- 14 So anyway that's all I have. Let's go on
- 15 to Chief Counsel Report.
- MS. VACCARO: I don't have anything today.
- 17 CHAIRMAN WEISENMILLER: Okay.
- 18 Executive Director Report?
- MR. OGLESBY: Two quick things, just to
- 20 report that I spoke to the Energy Storage
- 21 Association in San Francisco and participated on a
- 22 keynote panel. My role was to talk about the rapid
- 23 progress of renewables in the state.
- 24 And I also made a report to the State Water
- 25 Board on the progress of once-through cooling. And

- 1 we have a role in the group that advises the Water
- 2 Board of impacts of the phase out on reliability.
- 3 And the bottom line recommendation was to stay the
- 4 course, but keep an eye on a couple of projects that
- 5 may be lagging a bit.
- 6 CHAIRMAN WEISENMILLER: Public Adviser
- 7 Report, please?
- 8 MS. AVALOS: There's no report for the
- 9 Public Adviser's Office.
- 10 CHAIRMAN WEISENMILLER: Thank you.
- I believe we have one public comment?
- Mr. McLaughlin, please come on up and
- 13 introduce yourself.
- MS. MCLAUGHLIN: Good afternoon,
- 15 Commissioners. Thank you very much. My name is
- 16 Larry McLaughlin and I serve as Regional Director
- 17 for Advanced Transportation and Renewable Energy in
- 18 the Inland Empire Desert Region. In other words I
- 19 work the community college system. I work with
- 20 colleges on transportation and energy-related
- 21 programs.
- 22 And Commissioner Scott, I wanted to mention
- 23 to you, one of the things I have going on with the
- 24 community colleges is to incorporate electric
- 25 vehicle, hybrid electric vehicle instruction into

- 1 the curriculum for automotive programs. We have
- 2 quite a number that do not have that technology in
- 3 their programs yet. And we're working to remedy
- 4 that, but that's not why I'm here.
- 5 I'm here to update on you on the energy
- 6 storage curriculum. I've been leading a team on the
- 7 development of an energy storage curriculum for our
- 8 community college faculty to use. And introducing
- 9 the technologies and a little bit about the
- 10 policies, the market benefits and so forth, to
- 11 students. And programs like electrical programs,
- 12 solar programs, building and even our automotive
- 13 programs. So I wanted to let you know, using the
- 14 public comment period, that our energy storage
- 15 curriculum is now complete.
- 16 We have an Industry Review Panel that will
- 17 be meeting in Hayward to review and validate the
- 18 materials on August 31st. Our plan is to begin
- 19 training faculty in selected areas of the state
- 20 beginning in October.
- 21 And the faculty will be bringing them in
- 22 from these various programs: electrical, solar,
- 23 building programs, automotive programs, to go
- 24 through a train the trainer process. Because we're
- 25 going to have to acquaint them with the materials,

- 1 how they're intended to be used, while we're
- 2 educating them on the subject matter.
- 3 So this will be a process and we'll be at
- 4 this for awhile in order to get this incorporated
- 5 properly into the programs. This is the kind of
- 6 thing that our students get very excited about.
- 7 We're excited about it. You know, they're going to
- 8 become the future installers and technicians that
- 9 will maintain this equipment. But we're also
- 10 training the future contractors and designers and
- 11 the foremen and the planners and inspectors. And in
- 12 these programs they'll get the knowledge that they
- 13 need to understand this emerging technology.
- 14 This past year has been a great year for
- 15 the storage industry. We expect another great year
- 16 and we don't think it's too early to start teaching
- 17 our students about this technology.
- I have had delivered for you, a copy of the
- 19 training materials, your own personal copy to
- 20 review. And I know that you don't have a lot of
- 21 time to go through a document like this, so what I
- 22 wanted to suggest to you is take a look at the table
- 23 of contents. Choose your favorite topic. And take
- 24 a look and we'd love to know what you think about
- 25 it.

- 1 One of the topics that I know you all will
- 2 be interested in is the one that we've put together
- 3 specifically for the EV to Grid integration issues.
- 4 Because I've heard today, and I know that this is
- 5 all on your minds, that there's a nexus here.
- 6 The transportation sector is merging with
- 7 the energy sector in very interesting ways. And, of
- 8 course, the cars and trucks that we're currently
- 9 driving could become a significant source for
- 10 capturing renewable energy power. And shifting how
- 11 that power is used on a daily consumption schedule.
- 12 So please take a look and let us know what
- 13 you think. My card is in the pocket on the inside
- 14 of the binder. All right, do you have any
- 15 questions?
- 16 CHAIRMAN WEISENMILLER: Okay. No, I was
- 17 going to point out that when I talked to the
- 18 utilities -- and they have an aging workforce -- but
- 19 anyway, bottom line is the community colleges are
- 20 where most of their workers come from. So certainly
- 21 educating future utility folks on storage, LED, you
- 22 name it, is certainly really good.
- 23 And I think -- I just remember talking to
- 24 Holdren and he said he and Obama were going back and
- 25 forth on what was more depressing, either the fact

1	that so few Americans understand climate change or
2	so few Americans believe in evolution. But both of
3	them would like to think that better scientific
4	training might help in both cases.
5	So anyway, thanks for doing the Lord's work
6	there.
7	MR. MCLAUGHLIN: Thank you very much.
8	CHAIRMAN WEISENMILLER: I think we're
9	adjourned. And I'm sure Laurie would love to have a
10	copy of that if you don't want to haul it home,
11	right?
12	(Adjourned at 12:47 P.M.)
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I do hereby certify that the testimony in the foregoing hearing was taken at the time and

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IN WITNESS WHEREOF, I have hereunto set my hand this 6th day of April, 2016.

PETER PETTY CER**D-493 Notary Public

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