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BUSINESS MEETING
BEFORE THE
CALIFORNIA ENERGY COMMISSION

In the Matter of:)
) 18-BUSMTG-01
 Business Meeting)
_____)

CALIFORNIA ENERGY COMMISSION
THE WARREN-ALQUIST STATE ENERGY BUILDING
ART ROSENFELD HEARING ROOM - FIRST FLOOR
1516 NINTH STREET
SACRAMENTO, CALIFORNIA 95814

WEDNESDAY, JUNE 13, 2018

10:00 A.M.

Reported by:
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APPEARANCES

Commissioners

Robert Weisenmiller, Chair
Karen Douglas
Janea Scott
Andrew McAllister

Staff Present: (* Via WebEx)

Drew Bohan, Executive Director
Kourtney Vaccaro, Chief Counsel
Alana Mathews, Public Adviser
Cody Goldthrite, Secretariat

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Monica Rudman	8
Jane Berner	9
Noel Crisostomo	10
Matthew Ong	11
Shaun Ransom	12
Brad Williams	13
Joseph Sit	14
Mike Gravely	15
Rachel Grant-Kiley	15

Others Present (* Via WebEx)

Interested Parties

Curtis Worley, NEBB	2
*Amber Ryman, NEBB	2
*David Burnett, NEMIC	3
Samveg Saxena, LBNL	10
*Jonathan Palacios-Avila, StratosFuel	11

APPEARANCES (Cont.)

Interested Parties (Cont.)

*Peter Engel, Contra Costa Transportation
Authority
Ruth Cox, Prospect Silicon Valley 13
*PL: Peter Lehman, Schatz Energy Research Center
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Pursuant to Government Code section 11126(e), the Energy Commission may also discuss any judicial or administrative proceeding that was formally initiated after this agenda was published; or determine whether facts and circumstances exist that warrant the initiation of litigation, or that constitute a significant exposure to litigation against the Commission, which might include:

- a. The licensing process for a nuclear waste storage repository at Yucca Mountain, Nevada.

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P R O C E E D I N G S

JUNE 13, 2018 10:09 a.m.

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

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

CHAIRMAN WEISENMILLER: Good morning. Let me start out with an announcement. The California Energy Commission is streaming today's Business Meeting via the Energy Commission's YouTube channel. Today's streaming is a test of the system to determine technical capabilities. We have to formalize the use of streaming for future meetings. Just a reminder, today's effort is a test. We'll see how it works.

So let's start with the Consent Calendar.

COMMISSIONER DOUGLAS: Move consent.

COMMISSIONER MCALLISTER: Second.

CHAIRMAN WEISENMILLER: All those in favor?

(Ayes.)

CHAIRMAN WEISENMILLER: Consent is adopted 4-0. Commissioner Hochschild is absent.

Let's go on to Item 2.

MR. LOYER: Good morning Chair and Commissioners. I'm Joe Loyer, Senior Mechanical Engineer from the

1 Efficiency Division.

2 I am here to present for your consideration the
3 National Environmental Balancing Bureau, NEBB, 2016 Update
4 Report to be approved by the Energy Commission to their
5 Nonresidential Mechanical Acceptance Test Technician
6 Certification Provider application or ATTCP.

7 Mechanical acceptance tests are functional tests
8 required by the Energy Standards for newly installed
9 mechanical systems to ensure that the mechanical systems
10 work as designed. Organizations may apply to the Energy
11 Commission to become an ATTCP to provide technicians with
12 the training, certification, and oversight to perform
13 acceptance testing.

14 With the adoption of the 2016 Energy Standards,
15 an ATTCP must submit an update report to the Energy
16 Commission for approval.

17 For the NEBB Update Report, we have determined
18 that the substantive adjustments to the NEBB Quality
19 Assurance Program meet the requirements of the 2019 Energy
20 Standards. We have determined that the non-substantive
21 adjustments to the application meet the requirements of the
22 2016 Energy Standards.

23 We have documented our review in the staff
24 report, which is posted on the Energy Commission website
25 and was made available for public comment. No comments

1 have been received.

2 We recommend that the Energy Commission confirm
3 the Executive Director's findings and adopt his
4 recommendations.

5 NEBB representatives are here today; Curtis
6 Worley and Amber Ryman may be online. Thank you for your
7 consideration. I'm available to answer any questions.

8 CHAIRMAN WEISENMILLER: Thank you.

9 Let's start with this. Is there anyone in the
10 room who has comments on this? Certainly, well you're
11 welcome to come up the microphone and introduce yourself.

12 MR. WORLEY: Thank you. Hello. My name is
13 Curtis Worley. I'm the Current Committee Chair for the
14 document (phonetic) NEBB Title 24 Committee. I'd like to
15 thank the California Energy Commission for consideration in
16 this matter. NEBB is looking forward to becoming a 2016
17 Acceptance Test Certification Provider. NEBB values all
18 the hard work and the effort that this Commission and its
19 contributors have given.

20 I would also like to thank everybody for showing
21 up today. I appreciate that. And again NEBB would really
22 appreciate your affirmation and a vote on this matter.

23 Thank you.

24 CHAIRMAN WEISENMILLER: Thank you.

25 Anyone else in the room? I believe we have Amber

1 on the line.

2 MS. RYMAN: Hello. I also would like to tag on
3 to Curtis's comment. NEBB is definitely looking forward to
4 the approval of this development of the (indiscernible)
5 today. A lot of hard work and energy has gone into getting
6 this program up and running. And with that today, if we do
7 get an approval today that will in effect get the ball
8 rolling again just moving in the right direction to have
9 this program succeed. So we are looking forward to it and
10 we definitely thank you for your consideration and time on
11 this matter.

12 CHAIRMAN WEISENMILLER: Thank you.

13 Anyone else on the line?

14 (No audible response.)

15 CHAIRMAN WEISENMILLER: Okay. Let's transition
16 to the Commissioners. Commissioner McAllister.

17 COMMISSIONER MCALLISTER: Yes, just briefly.
18 Thanks Joe. I've been following this application and
19 approval process just as all the rest of the agencies
20 (indiscernible) and on the mechanical side I think we're in
21 good shape. We have a good breadth of coverage. We have
22 good providers and we're looking forward to getting the
23 program, really pulling the trigger and really getting it
24 rolling in earnest.

25 And just as a reminder quickly, the reason for

1 this program is to make sure that our mechanical systems in
2 our buildings, our larger buildings and all of the
3 buildings really, are installed properly and functioning
4 properly in a way that's checked by a professional who
5 understands those systems. And so these providers and the
6 trainees that they've trained, they are critical to ensure
7 that the professionals that are out there, the technicians,
8 that are out there checking systems and (indiscernible) up
9 to par. And that the savings are there as we need them to
10 meet our goals.

11 So this structure is new and again coming to
12 maturity and it's through everybody's hard work, so thanks
13 to Joe and staff and certainly all the providing
14 applicants. Thanks very much.

15 I obviously support all this, so I'll move Item
16 2.

17 COMMISSIONER DOUGLAS: I will second it. I'll
18 just add that yes, this is great to, is the growth of this
19 market and additional certifications here.

20 CHAIRMAN WEISENMILLER: So, all in favor?

21 (Ayes.)

22 CHAIRMAN WEISENMILLER: This item passes 4-0.

23 Let's on go on to Item 3.

24 MR. LOYER: Commissioners, Chair. Similar to
25 NEBB, we are also here to present the National Energy

1 Management Institute Committee, NEMIC, 2016 Update to their
2 ATTCP application.

3 We have determined that the substantive
4 adjustments to the NEMIC Quality Assurance Program meet the
5 requirements of the 2019 Energy Standard. We have
6 determined that non-substantive adjustments to the NEMIC
7 application have met the requirements of the 2016 Energy
8 Standards. We've documented our review in a staff report,
9 which was posted on the Energy Commission website and made
10 available for public comment. No comments have been
11 received.

12 We recommend that the Energy Commission confirm
13 the Executive Director's findings and adopt his
14 recommendations.

15 NEMIC representatives are here today and
16 available online. David Burnett is available online. We
17 have Randy Young and David Dias here in person.

18 Thank you for your consideration. I am available
19 to answer any questions.

20 CHAIRMAN WEISENMILLER: Thank you.

21 Let's start with comments from anyone in the
22 room. No comments, so let's go to anyone on the line.

23 UNIDENTIFIED SPEAKER: Let me open David
24 Burnett's line.

25 MR. BURNETT: Hello?

1 CHAIRMAN WEISENMILLER: Mr. Burnett? Please go
2 ahead.

3 MR. BURNETT: (No audible response.)

4 CHAIRMAN WEISENMILLER: Okay. Again, is there
5 anyone on the line who wants to speak to Item 3?

6 (No audible response.)

7 UNIDENTIFIED SPEAKER: We'll close this line.

8 CHAIRMAN WEISENMILLER: Okay. Well, let's
9 transition to the Commissioners.

10 COMMISSIONER MCALLISTER: Yes, so what's the
11 word? I think we had two proposals that essentially run
12 across to do the same thing on the agenda today and both
13 quality, both up to par, so I'm appreciative. I want to
14 thank NEMIC as well for bringing a good proposal and I look
15 forward to getting you guys up and running and again
16 cranking out the system out there in the market.

17 COMMISSIONER DOUGLAS: Yeah, absolutely. And I
18 agree with that. I'll move Item 3.

19 COMMISSIONER MCALLISTER: So I'll move Item 3.

20 COMMISSIONER DOUGLAS: Second.

21 CHAIRMAN WEISENMILLER: All right. All those in
22 favor?

23 (Ayes.)

24 CHAIRMAN WEISENMILLER: So Item 3 passes 4-0
25 again.

1 Let's go to Item 4.

2 COMMISSIONER MCALLISTER: Thanks, Joe.

3 CHAIRMAN WEISENMILLER: Thanks, Joe.

4 MR. LOYER: You're welcome.

5 MR. STRAIT: Good morning Chair and
6 Commissioners. My name is Peter Strait. I'm with the
7 Energy Development Unit of the Building Standards Office.

8 The item I'm bringing before you today is a new
9 local energy ordinance from Marin County. Our office
10 encourages and assists local jurisdictions in developing
11 and adopting local energy standards that go beyond those in
12 our statewide Building Energy Efficiency Standards.

13 Today's ordinance is the 16th we've brought
14 before the Commission under the 2016 Standards and the
15 second one from Marin County. We're actually quietly proud
16 of the success of this program.

17 Local governmental agencies wishing to enforce
18 locally adopted energy standards must, by statute, apply to
19 the Energy Commission for a finding that the local energy
20 standards require buildings to obtain equal or greater
21 energy savings than the current Building Energy Efficiency
22 Standards that apply statewide.

23 Staff reviewed Marin County's application and
24 posted it for a 60-day public review period. Staff finds
25 that Marin County's ordinance and materials meet the

1 requirements for consideration by the Commission and our
2 Executive Director has recommended approval for this item.

3 The ordinance adopted by the Marin County Board
4 of Supervisors requires enhanced efficiency targets for
5 newly constructed buildings. The ordinance also provides
6 alternatives to the enhanced targets for residential
7 buildings. Specifically, low-rise multifamily buildings
8 and typical single-family buildings can instead be all-
9 electric. And single family buildings of 4,000 square feet
10 or more can instead meet Passive House requirements.

11 It's worth noting that the residential targets
12 also include an adjustment for solar photovoltaic systems
13 that ensures the targets are met by efficiency improvements
14 and not using the solar PV credit that's currently
15 available in our software, under the performance approach.

16 The ordinance was very much a team effort. I'm
17 going to read a list of folks involved, because I want to
18 make sure I don't miss anyone.

19 Marin County staff worked closely with the Bay
20 Area Regional Energy Network or BayREN; Pacific Gas &
21 Electric or PG&E; Enercomp; the Davis Energy Group; Misti
22 Bruceri & Associates and TRC, to asses and adopt the four
23 cost effectiveness studies that were submitted with the
24 their completed application.

25 I want to compliment in particular Marin County's

1 interaction with our Program Lead, Ingrid Neumann, as being
2 both positive in spirit and responsive to the needs of this
3 proceeding.

4 With respect to the California Environmental
5 Quality Act, Marin County's Environmental Planning Manager
6 submitted a Notice of Exemption with their application
7 stating in part, that implementation of the ordinance is
8 intended for the protection of the environment by reducing
9 resource consumption and waste generation.

10 For these reasons staff recommends that the
11 findings be made and approved and the Energy Commission
12 resolution be signed.

13 I am available to answer any questions, as is
14 Alice Zanmiller with Marin County, who is attending by
15 phone.

16 CHAIRMAN WEISENMILLER: Thank you.

17 First, is there anyone in the room who has
18 comments on this?

19 Anyone on the telephone who has comments on this?

20 (No audible response.)

21 COMMISSIONER MCALLISTER: Did Alice want to say
22 something?

23 MR. STRAIT: No.

24 COMMISSIONER MCALLISTER: No.

25 CHAIRMAN WEISENMILLER: Commissioner McAllister,

17

1 then?

2 COMMISSIONER MCALLISTER: Yeah, so I got a good
3 briefing following this, I got a good briefing recently on
4 it. And I think there's some innovation here. And I think
5 we should, at least at the superficial level kind of call
6 that out.

7 So the Marin County has decided to go beyond the
8 2016 Code in energy efficiency and the push in different
9 ways, sort of the 15 percent or beyond. If you have a
10 traditional build home, they've sort of given people an out
11 that they can be basically meeting code if they choose an
12 all-electric building. And so in a way they're
13 incentivizing people to go all electric without requiring
14 it and sort of letting the market -- sort of help that
15 market shake out a little bit.

16 And so by virtue of the fact that all those
17 options at least meet our current 2016 Code, they're
18 certainly okay for us to approve here at the Energy
19 Commission. But I thought that was an interesting approach
20 to require some programs or goals beyond the basic
21 standards. But then has now people actually complying. So
22 we'll see, I'm looking forward to seeing how the market
23 responds to that and sort of what percentages of folks
24 choose to what part of it.

25 In any case, that's the big high-level picture

1 and so definitely if no one else has anymore comments, so
2 I'll move Item 4.

3 COMMISSIONER DOUGLAS: Second.

4 CHAIRMAN WEISENMILLER: All those in favor?

5 (Ayes.)

6 CHAIRMAN WEISENMILLER: So Item 4 also passes 4-
7 0.

8 MR. STRAIT: Thank you.

9 CHAIRMAN WEISENMILLER: Let's go to Item 5.

10 MR. ANGULO: Good morning, Chair Weisenmiller and
11 Commissioners. My Name is Armand Angulo and I'm
12 representing the Office of Compliance Assistance &
13 Enforcement where we work offering compliance assistance
14 services, investigating and enforcing violations of our
15 Appliance Energy Efficiency Standards.

16 Our legislative authority provides for assessing
17 monetary penalties for violations and also established the
18 Appliance Efficiency Enforcement Subaccount to deposit
19 these penalties funding our program including this
20 agreement.

21 Regulations require the enforcement of appliances
22 to ensure energy efficiency savings are achieved from the
23 Appliance Standards. We inspect and test these products
24 offered to California consumers to determine their
25 compliance with applicable standards.

1 Our current agreement with University Enterprises
2 Inc. instructs Sacramento State University's Engineering
3 Energy Efficiency Lab to perform enforcement testing of
4 these appliances. This agreement expires June 30th and has
5 successfully tested approximately 216 appliances.

6 Sac State's Engineering Lab Manager also provides
7 consultation services meeting with manufactures and
8 business owners to discuss testing procedures and results.

9 I am here today to ask for your support to
10 approve this agreement for three more years. This has
11 become more than managing a contract, it has blossomed into
12 a relationship with our local university where we share our
13 passion to achieve and promote our mission. We also offer
14 a workplace for student assistant staff, while Sac State
15 provides an excellent labor pool for us. It's almost like
16 our own little minor league farm system. We bringing up
17 the minor leaguers to the big leagues, but we at least
18 expose them to what we do here. And it's been great.

19 We also coordinate tours of the lab for
20 legislative members and their staff, Department of Finance
21 and other program stakeholders where again our passion for
22 the work we do and our Department's mission shines bright.
23 It promotes good will and it gives people a chance to have
24 a good firsthand look at what we're doing.

25 Our office is doing some good work together with

1 our local university playing a key role in performing these
2 mission critical services benefitting the Commission, the
3 state and the community.

4 Staff recommends approval of this agreement
5 allowing us to continue this productive relationship,
6 supporting the effective work we are doing.

7 Thank you for your time and consideration.

8 CHAIRMAN WEISENMILLER: Thank you.

9 Let's start this, is there any comments from
10 anyone in the room? Anyone on the phone?

11 (No audible response.)

12 CHAIRMAN WEISENMILLER: Then again, let me
13 transition to the Commissioners. Commissioner McAllister?

14 COMMISSIONER MCALLISTER: Several of the
15 enforcement -- you are all familiar with the Enforcement
16 Program? They're the ones that do all the rulemaking. You
17 know, not long ago I think we were all up here on the dais
18 at that time as well.

19 But it really has, as Armand says, it's really
20 become a positive thing within the Energy Commission. He
21 sits in the Executive Office and Armand's doing a great job
22 on it. But I think, they all do a great job of it and I've
23 been really impressed, not just with sort of testing on the
24 SDSU side, but also on the Sac State side. But also with
25 just a way that they interface with our Legal Department

21

1 and just that whole ecosystem they've created where it's
2 not intuitive really, but the relationship that you
3 mentioned, that sort of positive relationship building
4 actually even exists between Legal and the people that we
5 are catching and working with and (indecipherable) find,
6 that kind of thing.

7 It actually ends up creating an exchange of
8 information that's pretty helpful. And so people in
9 general want to comply. So helping them in doing that and
10 being non-confrontational about it I think is really a
11 great approach. And so we have to give Fred Bosely
12 (phonetic) a lot of the credit for sort of putting this in
13 place, Andrew for managing it going forward and Paul and
14 the team for keeping it really, really positive and just
15 very effective.

16 So a cornerstone of it is the work that we have
17 testing devices and (indiscernible) so this contract has my
18 full support.

19 COMMISSIONER DOUGLAS: So, you know, I'll just
20 add that this is that this is a really important contract.
21 And Sac State's done a great job for us on the testing
22 side. So I'll just join Commissioner McAllister in thanks
23 to you and team and strongly support this contract.

24 COMMISSIONER MCALLISTER: All right, I'll move
25 Item 5.

1 COMMISSIONER DOUGLAS: Second.

2 CHAIRMAN WEISENMILLER: Thank you. All those in
3 favor?

4 (Ayes.)

5 CHAIRMAN WEISENMILLER: This passes 4-0. Thanks.
6 Let's go to Item 6.

7 MS. DE JONG: Hello Chair and Commissioners. My
8 name is Elisabeth de Jong and I'm from the Geothermal Grant
9 and Loan Program within the Renewable Energy Division.
10 Today, I am presenting an Interagency Agreement with the
11 Department of Conservation's Division of Oil, Gas, and
12 Geothermal Resources.

13 The Energy Commission, through the Geothermal
14 Resources Development Account, is authorized to fund
15 technical support projects. This short-term contract will
16 provide the Energy Commission with a detailed technical
17 assessment of approximately 32 unused geothermal wells
18 throughout California.

19 The Division will compile information on low
20 temperature geothermal wells that are unused and not
21 appropriately plugged and abandoned and will develop a
22 plugging and abandonment plan for each well identified.
23 Deliverables will be provided in a format useful to both
24 the Energy Commission and to the well owners and/or
25 operators.

1 It is in the interest of the state to provide
2 technical and financial support that will help lead to the
3 ultimate plugging and abandonment of these unused wells
4 that are a burden on local governments and small public
5 agencies that may not have the support or resources to
6 conduct the work themselves. An overarching goal is to
7 protect freshwater, other natural resources, and public
8 health and safety.

9 Energy Commission staff have prepared a CEQA
10 Notice of Exemption for this project.

11 We have identified some minor typographical
12 errors in the Scope of Work that will be corrected in the
13 final agreement documents when executed.

14 Jack Truschel, Amar Rao, and Amanda Taylor from
15 the Department of Conservation are available to answer any
16 questions in regards to this project.

17 We request approval of this item and I am happy
18 to answer any questions you may have.

19 CHAIRMAN WEISENMILLER: Thank you.

20 Is there anyone in the room with comments on this
21 item? Anyone on the phone?

22 (No audible response.)

23 CHAIRMAN WEISENMILLER: Okay. Then again, let's
24 transition to the Commissioners.

25 Obviously, this is important. I think all of us

1 have been very supportive of geothermal. And at the same
2 moving forward as you get to this stage where basically the
3 production is gone then you have to make sure you cap the
4 wells. So certainly it's important to move forward on this
5 at this stage and establish. And it's certainly the goal
6 for the Energy Commission to supply the support to local
7 governments and operators going forward. Thanks.

8 COMMISSIONER DOUGLAS: Yes. I agree and I'll
9 move approval on this item.

10 COMMISSIONER SCOTT: Second.

11 COMMISSIONER MCALLISTER: Sure, it's all yours.

12 COMMISSIONER SCOTT: Second.

13 CHAIRMAN WEISENMILLER: All those in favor?

14 (Ayes.)

15 CHAIRMAN WEISENMILLER: This passes 4-0. Thanks
16 again.

17 MS. DE JONG: Thank you.

18 CHAIRMAN WEISENMILLER: Let's go on to Item 7.

19 MR. PENA: Good morning Chair and Commissioners.

20 My name is Nelson Peña and I am with the Local Assistance
21 and Finance Office, in the Efficiency Division.

22 Today, we are requesting approval of an Energy
23 Conservation Assistance Act loan also known as ECAA 1
24 percent loan to the City of Weed, also known for the home
25 of the world's largest sawmill in Northern California near

25

1 Mount Shasta, at least back in the 1940s.

2 The application is approximately for \$1.6 Million
3 to implement the installation of multiple separate
4 projects, which includes the following: Four separate
5 single axis solar photovoltaic systems on city-owned water
6 treatment plants including two solar photovoltaic aeration
7 mixers at one of the wastewater ponds totaling 222
8 kilowatts; replace electric resistance heating for a high
9 efficiency mini-split systems for the City Hall; reduce air
10 leakage for caulking, insulating and resealing around the
11 window frames which will help reduce City Hall's heating
12 cost; install SMART HVAC thermostats at the City Library;
13 retrofit 60 High Intensity Discharge lighting with LEDs and
14 add Wi-Fi dusk to dawn controls; and lastly replace
15 interior and exterior incandescent and T-12 lighting with
16 LEDs at City Hall, the city's maintenance shop and the City
17 Library.

18 The total project is estimated to save
19 approximately 610 kilowatts per hour of electricity
20 annually, saving the City of Weed an estimated \$96,000
21 annually, utility costs.

22 We have determined that this loan meet the simple
23 payback for this loan is approximately 16 years.
24 Therefore, we request your approval of this item for the
25 City of Weed.

1 And I'm here to answer any questions that you may
2 have.

3 CHAIRMAN WEISENMILLER: Thank you.

4 So is there any comments from anyone in the room?
5 Anyone on the line?

6 (No audible response.)

7 CHAIRMAN WEISENMILLER: Commissioner McAllister?

8 COMMISSIONER MCALLISTER: All right, thanks,
9 Nelson. That was great. I want to just highlight this.
10 We all know about ECCA and rave about it and it does a
11 great job, and staff really does a great job. And this
12 project in particular, I like it because it demonstrates
13 these buildings as a platform approach. They're really
14 looking for places to use buildings to do various things at
15 once so they're not all (indecipherable), sort of doing a
16 broad array of things all at the same time, in an
17 integrated way.

18 So I think that's just smart management, so I'm
19 happy to support this. And I'll move Item Number 7.

20 COMMISSIONER DOUGLAS: Second.

21 CHAIRMAN WEISENMILLER: All those in favor?

22 (Ayes.)

23 CHAIRMAN WEISENMILLER: This item also passes 4-
24 0.

25 Let's go to Item 8.

1 MS. RUDMAN: Good Morning, Commissioners. My
2 name is Monica Rudman. I'm with the Efficiency Division
3 and I'm here to request your approval of an agreement with
4 the County of San Diego.

5 As a way of background, in February 2016 the
6 County of San Diego adopted a climate action plan to
7 address sustainability and to reduce greenhouse gas
8 emissions. In 2014, about one third of their total
9 emissions were generated from electricity and natural gas
10 used in buildings. So, reducing their buildings' energy
11 use through improved efficiency and renewable energy is an
12 important strategy to achieve climate goals. However, as
13 is often the case, the County of San Diego has limited
14 funds, so they must seek out and take advantage of
15 incentives offered by other organizations.

16 Fortunately, the Energy Commission authors the
17 Energy Conservation Assistance Act, ECAA, which authorizes
18 the Energy Commission to provide revolving loans to public
19 agencies for energy efficiency, demand reduction and
20 renewable generation projects.

21 We are pleased to support the County of San Diego
22 via this proposed ECAA loan. The County of San Diego would
23 like to borrow about 261,000 in order to install interior
24 LED lighting, exterior LED lighting and demand controlled
25 ventilation at their Edgemoor Skilled Nursing Facility.

1 Annually, this will save approximately 537,000
2 kilowatt-hours of electricity and 76,000 in utility costs.
3 We reviewed the supporting documentation and concur that
4 the proposed project is technically sound. After just 3.5
5 years, the total energy bill savings will exceed the
6 project cost, so this proposed loan meets the ECAA loan
7 program requirement.

8 We request that you approve the loan.

9 Thank you for consideration and if you have any
10 questions, I would be happy to answer them.

11 CHAIRMAN WEISENMILLER: Thank you.

12 Is there any comments from anyone in the room?
13 Anyone on the line?

14 (No audible response.)

15 CHAIRMAN WEISENMILLER: Okay, Commissioner
16 McAllister:

17 COMMISSIONER MCALLISTER: Thanks a lot. That was
18 great. And I just -- I guess we ought to just highlight
19 how cost effective LEDs are at this point, because the
20 lighting revolution is just right upon us. So this is not,
21 in the grand scheme of things, it's not a big loan but it's
22 got a really fast payback. It's going to save them a lot
23 of energy, so that's great. And, you know, obviously the
24 heavier mechanical stuff like the previous one and
25 generation et cetera has a higher cost. But also it's cost

29

1 effective, just on a longer time scale. And so anyway it
2 sounds like good management to me, so I'm happy to support
3 Item 8.

4 COMMISSIONER SCOTT: Second.

5 COMMISSIONER DOUGLAS: I don't think we had a
6 motion.

7 COMMISSIONER SCOTT: Oh, I'm sorry. I heard that
8 --

9 COMMISSIONER MCALLISTER: Then I'll move Item 8.

10 CHAIRMAN WEISENMILLER: Okay. Now, go ahead.

11 COMMISSIONER SCOTT: Now, I'll second.

12 CHAIRMAN WEISENMILLER: All those in favor?

13 (Ayes.)

14 CHAIRMAN WEISENMILLER: Item 8 passes 4-0. Thank
15 you.

16 Let's go on to Item 9.

17 MS. BERNER: Good Morning Chair and

18 Commissioners. My name is Jane Berner from the Fuels and
19 Transportation Division.

20 Today staff is seeking approval of a contract
21 with the Alliance for Sustainable Energy, LLC, which is the
22 manager and operator of the National Renewable Energy
23 Laboratory, known as NREL. This contract would be for
24 \$100,000 to support a project called the California
25 Hydrogen Infrastructure Research Consortium.

1 The Consortium will be a partnership between the
2 Energy Commission, the California Governor's Office of
3 Business and Economic Development, the California Air
4 Resources Board, the South Coast Air Quality Management
5 District and NREL, in which NREL will provide its technical
6 research capabilities to assist California in decisions and
7 evaluations related to hydrogen refueling infrastructure.
8 We have identified tasks for NREL to address some of the
9 technical issues that have surfaced as we work to achieve
10 the state goal of 200 public hydrogen refueling stations by
11 2025 to support the growing market for zero-emission fuel
12 cell electric vehicles.

13 In August 2017, NREL issued a call for
14 cooperative research and development agreement projects, or
15 CRADA projects for short. Proposed CRADA projects had to
16 support the U.S. Department of Energy's applied research
17 activities related to its Hydrogen at Scale concept, also
18 known as H2@Scale. H2@Scale aims to reduce the cost of
19 hydrogen production and distribution, enhance the
20 flexibility of the power grid, reduce petroleum use and
21 emissions, and create jobs. The California Consortium was
22 one of the CRADA project proposals selected by U.S. DOE.

23 The CRADA enables California to leverage match
24 funding from U.S. DOE. The Energy Commission, CARB and the
25 South Coast AQMD are providing \$100,000 each, GO-Biz is

1 providing \$20,000 in in-kind support and U.S. DOE is
2 providing \$540,000 towards this project.

3 By pooling all of these resources, more tasks can
4 be accomplished than would otherwise be possible with
5 Energy Commission funds alone. These tasks include data
6 analyses to identify trends in station usage and
7 performance and to provide technology validation to inform
8 decision-making regarding infrastructure technical
9 requirements.

10 Tasks also include evaluation of energy system
11 integration strategies in which hydrogen can provide energy
12 storage to the grid and otherwise curtailed renewable
13 energy can be a source for renewable hydrogen. This
14 project will not only benefit California, through joint
15 applied research activities, it also will benefit other
16 states that pursue hydrogen as a zero-emission
17 transportation solution.

18 Thank you for your consideration of this item.
19 And I am available to answer any questions you may have.

20 CHAIRMAN WEISENMILLER: Thank you. Are there any
21 comments from anyone in the room? Anyone on the line?

22 (No audible response.)

23 CHAIRMAN WEISENMILLER: Okay. Commissioner
24 Scott?

25 COMMISSIONER SCOTT: Sure. Thank you, Jane, for

1 the great summary. I don't have too much to add to the
2 very detailed report that she gave, except to maybe
3 highlight the obvious here, which is that this is a really
4 great example of good government. It's local, state, it's
5 federal. And we're working together to advance solutions
6 and really move forward in the hydrogen refueling industry.
7 So I appreciate the partnership and the good collaboration
8 amongst the folks that Jane mentioned.

9 And if you all don't have questions, I will move
10 approval of Item 9.

11 COMMISSIONER MCALLISTER: I wanted to just
12 mention something. The inventor of this at the Berkeley
13 Lab, I think, was Samveg, right? Do you remember --

14 COMMISSIONER SCOTT: This is the next one.

15 COMMISSIONER MCALLISTER: Oh, I'm sorry. Oh, I'm
16 sorry. I'm sorry. Okay. Anyway, okay, so I'll second
17 this item. (Laughter.)

18 CHAIRMAN WEISENMILLER: All those in favor?

19 (Ayes.)

20 CHAIRMAN WEISENMILLER: This passes 4-0. Thank
21 you.

22 Let's go on to 10.

23 MR. CRISOSTOMO: Good morning, Commissioners. My
24 name is Noel Crisostomo, and I am an Air Pollution
25 Specialist in the Fuels & Transportation Division working

1 on electric vehicle charging infrastructure. We request
2 approval of a proposed three-year, \$100,000 contract with
3 the Department of Energy's Lawrence Berkeley National
4 Laboratory to launch MyGreenCar, a software and mobile
5 application in California.

6 MyGreenCar provides prospective car buyers with
7 personalized information about how an electric vehicle and
8 charging infrastructure can meet their mobility needs with
9 minimal changes to their travel behaviors. The MyGreenCar
10 application will educate Californians about the viability
11 of electric cars, giving users tailored insights to inform
12 their electric vehicle purchasing decisions. This contract
13 would provide the foundation for Berkeley Lab to
14 commercialize MyGreenCar by connecting users to local car
15 dealerships, where they can buy the EV that is right for
16 them.

17 This contract will also provide the Energy
18 Commission data on driving behaviors and charging
19 preferences. Berkeley Lab will provide the Energy
20 Commission reports on three years of data collected by the
21 MyGreenCar platform, including which types of EVs are being
22 considered and adopted and the locations and types of
23 charging infrastructure that is needed by drivers.

24 These reports will help the California Energy
25 Commission plan for charging infrastructure and forecast

1 electric vehicle load throughout California.

2 This proposed contract supports the 2016 Zero
3 Emission Vehicle Action Plan's elevated priority to raise
4 consumer awareness and education about zero-emission cars.
5 This issue remains critical, as recent research shows that
6 consumers are not aware of available electric car options
7 that are available to them and have misperceptions on
8 driving ranges and charging needs. In response, the
9 contract will help implement the Integrated Energy Policy
10 Report's recommendation to support the development of
11 specialized consumer education and engagement tools, and
12 will leverage local agencies, utilities, and community
13 organizations.

14 Thank you for your consideration of this item. I
15 am happy to answer any questions, as is Samveg Saxena,
16 Principal Investigator of MyGreenCar, who is here today.
17 And there may be a few commenters on the phone.

18 CHAIRMAN WEISENMILLER: Great. Thank you.

19 Let's start with anyone in the room with
20 comments. Please, come on up and identify yourself for the
21 court reporter and speak.

22 MR. SAXENA: Hi, folks. My name is Sam Saxena.
23 And I'm at Lawrence Berkeley National Lab. Chair
24 Weisenmiller, Commissioners, thank you for considering the
25 support of MyGreenCar and the opportunity to speak before

35

1 you.

2 I am leading the efforts to develop and bring
3 MyGreenCar to market, at Berkeley Lab. And so, to give you
4 a little bit of a history, with the support of Berkeley
5 Lab, U.S. DOE and EPA, MyGreenCar has been under
6 development at Berkeley Lab for nearly four years. In that
7 time, we've created an innovative system of vehicle physics
8 models for nearly every car on the market. A user friendly
9 app that allows car buyers to compare any car they want for
10 their own driving. And through these efforts, we've
11 rigorously validated the technology and the demand for
12 MyGreenCar.

13 On the technology, we've shown that the
14 underlying mathematical models are accurate, based on lab
15 and on road measurements for virtually every car on the
16 road.

17 On the user experience, we've conduct beta
18 testing on a pool of over 700 users and we've shown that
19 the app is user friendly and intuitive to help car buyers
20 with their decisions.

21 Now most interestingly, on the market demand,
22 during our beta testing period, we've been able to measure
23 clear signs of viral growth potential. We measured a 10
24 percent week-over-week growth rate in the user-ship of
25 MyGreenCar and we measured that over 40 percent of users

1 were coming to MyGreenCar as referrals from other users.
2 The viral growth potential was clear.

3 Now, as we head into this next phase, what we're
4 very excited by is that we have support letters from nearly
5 30 organizations across California including utilities,
6 NGOs, cities and counties and more, who will help
7 accelerate the uptake of MyGreenCar.

8 And ARFVTP funding is essential for unlocking the
9 next phase of MyGreenCar's potential, by moving it from
10 being a lab technology into a scalable, commercial
11 operation. This transition will help to ensure that all
12 prior federal investments can be leveraged in a way that
13 benefits all Californians. And ARFVTP funding will enable
14 this transition.

15 So to wrap up, as we move forward and look to
16 scale MyGreenCar we're very excited to apply it to advance
17 CEC's own goals, particularly in the application of
18 applying our data and analytics to help CEC with micro-
19 siting of EV charging stations, which is a fairly large
20 focus for the Commission. So with that, I'm very excited,
21 and on behalf of our team we're all very excited for the
22 chance to have CEC as a partner in our statewide
23 initiative. Thank you very much.

24 CHAIRMAN WEISENMILLER: Thank you.

25 Anyone else in the room? Anyone on the line?

1 MS. MACDOUGALL: From NRDC?

2 CHAIRMAN WEISENMILLER: Please, go ahead.

3 MS. MACDOUGALL: Hi. I work for the Climate and
4 Clean Energy Department of the Natural Resource Defense
5 Council and I'm here to speak on behalf of NRDC in support
6 of MyGreenCar.

7 Her, at NRDC we really feel that the
8 electrification of the transportation sector is critical in
9 meeting the (indiscernible) in California's long-term
10 climate goals. And NRDC has been working really closely
11 with California utilities and government officials to
12 promote electric vehicles. And so the key principles that
13 we see reach those goals is to both educate customers and
14 to strategically install charging infrastructure.

15 Additionally, we are also looking for the
16 potential for moving (indiscernible) and we see that
17 MyGreenCar is on top of all these aspects. For example, we
18 are actually able to get to customers that haven't
19 previously considered electric vehicles.

20 And we also see the potential for the data
21 analytics to inform about how to educate customers as well
22 as to specify adoption and potentially locate where there
23 are gaps in infrastructure.

24 We've done numerous investigations to find
25 similar apps and programs. And we have yet to identify

1 anything similar at the scale that MyGreenCar could reach
2 and therefore we both would like to promote and support the
3 growth of MyGreenCar in California, as well as nationally
4 if possible.

5 CHAIRMAN WEISENMILLER: Great. Thank you.
6 Anyone else?

7 (No audible response.)

8 CHAIRMAN WEISENMILLER: Commissioner Scott?

9 COMMISSIONER SCOTT: Sure. So I would not, not
10 too much to add here to Noel's terrific presentation, but
11 just underscore some of the things he said. One of the
12 things we're excited about with this app is that it will
13 help raise some awareness. And one of the key barriers to
14 adoption is that consumers don't know that electric
15 vehicles are a choice. And so this will really help. And
16 once they know it's a choice this will give them some data
17 to really understand how my driving every day matches up
18 with what different types of electric vehicles can deliver.
19 And oh yeah, this could be a choice for me. So it'll be
20 great to get that information out there.

21 And I also am looking forward to the data and the
22 follow-on analytics that this will bring.

23 Any of you have a comment to add?

24 COMMISSIONER MCALLISTER: Yeah, I was waiting for
25 the sign to come up. But yes, so I mean I sat down with

1 Sam some years ago now. And I started carrying the app
2 around in my pocket and actually it generates a lot of
3 great information that's specific to you, your
4 transportation patterns and then sort of matches that on to
5 all the various characteristics of all the cars on the
6 market. And then levels up the ones that look like they
7 fit your lifestyle best.

8 And so since then he's actually done a lot of
9 improvements. But if we're going to change the
10 transportation market and really demystify all this, this
11 is a great, great tool to do that.

12 So my support remains, so I'm to support this
13 item.

14 COMMISSIONER SCOTT: So I will move approval of
15 Item 10.

16 COMMISSIONER MCALLISTER: I second.

17 CHAIRMAN WEISENMILLER: All those in favor?

18 (Ayes.)

19 CHAIRMAN WEISENMILLER: So this again passes 4-0.

20 Thank you.

21 Let's go on to Item 11.

22 MR. ONG: Good Morning Chair and Commissioners.
23 My name is Matthew Ong, Air Pollution Specialist from the
24 Emerging Fuels & Technology Office in the Fuels &
25 Transportation Division.

1 Today I'm here to present for possible approval
2 an agreement with StratosFuel Incorporated for nearly \$4
3 million to design, construct, and operate a renewable
4 hydrogen production facility in the City of Moreno Valley.

5 The facility will use grid-tied, renewable
6 electricity to produce 100 percent renewable hydrogen fuel
7 that will be used to supply the state's network of public
8 hydrogen refueling stations. The project will nearly
9 double StratosFuel's planned installation for a total
10 production capacity of 5,000 kilograms of hydrogen per day.
11 This is enough to refuel more than 1,000 fuel cell electric
12 vehicles each day. The facility is expected to be
13 operational by mid-2020.

14 The renewable hydrogen production facility was
15 evaluated by the lead agency, City of Moreno Valley, which
16 in 2010 prepared an initial study and then adopted a
17 Negative Declaration for a master plot plan that included
18 industrial development. The lead agency recently prepared
19 an Addendum to the Negative Declaration for the industrial
20 development, the renewable hydrogen production facility
21 specific to this project.

22 Commission staff determines that the renewable
23 hydrogen production facility itself causes no new
24 significant or substantially severe environmental impacts
25 beyond those already considered by the lead agency as

1 discussed in the background documents.

2 We seek your adoption of the CEQA findings that
3 based on the lead agency, City of Moreno Valley's CEQA
4 documents and determinations, the proposed project presents
5 no new significant or substantially more severe
6 environmental impacts beyond those already considered by
7 the lead agency, as well as approval of this proposed grant
8 award.

9 Thank you for your consideration of this item. I
10 believe we have Jonathan Palacios-Avila, CEO of StratosFuel
11 on the line, who would like to say a few words. And we are
12 here to answer any questions you may have.

13 CHAIRMAN WEISENMILLER: Thank you. Is there
14 anyone in the room with any comments? Then let's go to the
15 telephone.

16 MR. PALACIOS-AVILA: Hello.

17 CHAIRMAN WEISENMILLER: Hello. Please go
18 forward.

19 MR. PALACIOS-AVILA: Okay. My name is Jonathan
20 Palacios-Avila. I'm the Chief Executive Officer at
21 StratosFuel.

22 I first want to thank the CEC for out-of-state
23 funds for an in-state renewable hydrogen production plant.
24 Moving forward is critical (indecipherable) for publicly
25 funded hydrogen stations and also have the ability to fill

1 greater than 3,500 fuel cell vehicles on a daily basis.

2 For those you who do not know StratosFuel, we are
3 a hydrogen provider that is focused on providing renewable
4 hydrogen infrastructure, which includes resale station
5 outlets, production fuel and car (indiscernible) car
6 sharing applications.

7 And in closing we kindly request that the CEC
8 pass Item 11 and we thank you for your time and
9 consideration.

10 CHAIRMAN WEISENMILLER: Thank you.

11 Anyone else on the line?

12 (No audible response.)

13 CHAIRMAN WEISENMILLER: I'll transition to
14 Commissioner Scott.

15 COMMISSIONER SCOTT: All right. Well, thanks to
16 Jonathan for being on the phone and saying just a little
17 about StratosFuel and another excellent presentation by
18 Matthew in this space.

19 I don't have too much to add here, but as you
20 heard as more fuel cell electric vehicles come into the
21 California market, we're going to need additional fueling
22 capacity. And we'd like to see that coming from renewable
23 hydrogen sources. And we'd also like to see the cost of
24 the fuel start to decline and so this project, in my mind,
25 helps us along that trajectory. So I am in strong support

1 of it.

2 And I will move approval on item 11.

3 COMMISSIONER MCALLISTER: Second.

4 CHAIRMAN WEISENMILLER: All those in favor?

5 (Ayes.)

6 CHAIRMAN WEISENMILLER: This passes 4-0. Thank
7 you.

8 MR. ONG: Thank you.

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

10 MR. RANSOM: Good morning Chair and
11 Commissioners. My name is Shaun Ransom. And I'm staff
12 with the Fuels & Transportation Division's Zero Emission
13 Vehicle and Infrastructure Office.

14 Today staff is seeking approval for an agreement
15 for Contra Costa Transportation Authority for \$200,000.
16 Contra Costa Transportation Authority will develop an
17 electric vehicle readiness blueprint. The blueprint will
18 provide a comprehensive strategy for a responsible,
19 replicable and responsive acceleration to a zero-emissions
20 mobility community. This will be Phase I of an expected
21 two-phase effort.

22 Phase I will be the EV Readiness Blueprint. The
23 document will aid in the planning, siting and EV market
24 adoption for Contra Costa and all California regions.

25 Contra Costa Transportation Authority will create

1 online GIS maps that will serve as a living document and
2 analysis tool. And this will be publicly available.

3 They'll identify shared mobility hubs. Shared
4 Mobility hubs will serve in heavily-traveled zones and be
5 designed to serve a wide array of ZEVs such as personal
6 vehicles, heavy duty fleets and even electric bicycles.
7 They'll create a best practices tool box to maximize
8 efficiency in deployment and policy adoption. They'll
9 conduct an electricity demand analysis on a macro and micro
10 level to determine any adverse grid impacts and strategies
11 to mitigate grid overloads. And implement a workforce
12 training initiative. This effort includes outreach to both
13 schools and the automotive industry.

14 The proposed project will support and accelerate
15 California's goals to increase zero emission vehicle
16 infrastructure under the Zero Emission Vehicle Action Plan
17 and will reduce barriers to electrified transportation
18 access in disadvantaged communities.

19 Thank you for your consideration. On the phone,
20 we have Peter Engle from Contra Costa Transportation
21 Authority as well.

22 CHAIRMAN WEISENMILLER: Great. Thank you.

23 Let's start, is there anyone in the room with a
24 comment? Then let's go to Mr. Engle on the phone?

25 MR. ENGLE: I'm the Director of Programs for the

1 Contra Costa Transportation Authority here in Walnut Creek.

2 We're very thankful for this opportunity to seek
3 this funding, so that we can secure our electric vehicle
4 readiness blueprint. We feel like this blueprint can
5 provide tools to advance EV adoption in Contra Costa County
6 and throughout the East Bay.

7 While we're excited about all the tools that
8 we're trying to put together with this blue print, we're
9 especially proud about the opportunity to work in
10 disadvantaged communities with our workforce, to try and
11 provide more clean jobs to people who live in those
12 communities.

13 So with that, I'd like to encourage you to adopt
14 this item.

15 CHAIRMAN WEISENMILLER: Thank you.

16 Anyone else on the line?

17 (No audible response.)

18 CHAIRMAN WEISENMILLER: Then let's transition to
19 Commissioner Scott.

20 COMMISSIONER SCOTT: Sure. And thank you, Peter,
21 for calling in and Shaun, for another great presentation.

22 This is a series of EV-ready grants that you have
23 seen come through over the last little bit. We had a big
24 set of them last month and then this one as well.

25 I want to actually say thanks to our EPIC team

1 who had the Advanced Energy Communities Challenge. And I
2 thought gosh, that's a great idea. How can we do that on
3 the charging space as well? And a great thanks to the
4 Transportation Team who picked up that challenge and got it
5 out into the EV space.

6 So it's the same idea. We will have these
7 planning grants. People have the opportunity to plan what
8 the charging and hydrogen refueling infrastructure looks
9 like for their community, put together some of the
10 partnerships in order to say oh hey, we're going to put it
11 here and are you're in agreement with us?

12 And then a chance, as Shaun mentioned in Phase 2,
13 to come back and compete for dollars to actually implement
14 those plans, so that we'll see that infrastructure out in
15 those communities.

16 So I'm really excited about this set of projects.
17 I'm like ready for the plans to be done already. Do we
18 have any questions?

19 COMMISSIONER MCALLISTER: No.

20 CHAIRMAN WEISENMILLER: No.

21 COMMISSIONER SCOTT: So I will move approval of
22 Item 12.

23 COMMISSIONER DOUGLAS: Second.

24 CHAIRMAN WEISENMILLER: All those in favor?

25 (Ayes.)

1 CHAIRMAN WEISENMILLER: This passes 4-0. Thank
2 you.

3 Let's go on to Item 13.

4 COMMISSIONER DOUGLAS: Oh, sorry. I had a note
5 written here and I still missed my moment, so I wanted to
6 make a disclosure on item 13a, correct, and -- or no, Item
7 13 in its entirety and Item 14a, because UC Davis is a sub
8 on Item 13. And UC Davis is also involved in Item 14a.
9 And I teach every other year a renewable energy law course
10 at King Hall, the UC Davis Law School. They're not
11 involved in this contract, but I'm still doing this
12 disclosure thing.

13 CHAIRMAN WEISENMILLER: Thank you. Please, go
14 ahead.

15 MR. WILLIAMS: Great. Thank you. Good morning
16 Chair and Commissioners. My name is Brad Williams with the
17 California Energy Commission, Energy Efficiency Research
18 Office.

19 Staff recommends approval of the amendment with
20 the California Homebuilding Foundation for a project site
21 change from Chino, California, to a new site located in
22 Clovis, California. The new site is being constructed by
23 DeYoung Properties.

24 This project aims to demonstrate community-scale
25 deployment of newly constructed, single family, Zero Net

1 Energy, also known as ZNE homes in the proposed location of
2 Clovis, California where at least 50 homes will be built to
3 2019 ZNE Standards.

4 The goal will be to provide information on real-
5 world implementations of the California Energy Code, best-
6 practice ZNE construction techniques, as well as occupant
7 behavioral impacts on homes designed to ZNE Standards.

8 As a result of the site change staff is also
9 recommending approval of new CEQA findings based on the
10 lead agency, the City of Clovis', Final Environmental
11 Impact Report, Mitigation Monitoring Plan and statement of
12 overriding considerations.

13 Staff has reviewed and considered the City of
14 Clovis' CEQA documentation and has determined that the
15 proposed work under this project and amendment present no
16 new significant or substantially more severe environmental
17 impacts.

18 Thank you for your consideration. I am available
19 to answer any questions.

20 CHAIRMAN WEISENMILLER: Thank you. Let's start
21 with any comments from anyone in the room? Or on the line?

22 (No audible response.)

23 CHAIRMAN WEISENMILLER: Okay. So let's
24 transition, I think, to -- I don't know how to frame it,
25 but I assume Commissioner McAllister will want to jump in.

1 Obviously one of the things we're really trying
2 to is move towards zero emission buildings. And it's
3 particularly challenging, dealing with some of the same old
4 multifamily sectors. So I think we really are looking
5 forward to this project as a way of really helping us move
6 forward on that front and I should say the next one too.

7 So anyway, I think this is a good project,
8 particularly with the adjustment. And we need to move
9 forward on it.

10 COMMISSIONER MCALLISTER: Yeah, so the California
11 Home Building Foundation is really I think a great
12 counterpart for this. And so has a reach that allows them
13 pick sites to sort of plug into sites that are all around
14 the state. And so they take advantage of that here. But
15 finding a site that's ripe and in the right moment of
16 development and sort of has a builder who is aimed in that
17 direction and has the mindset that they want to have a --
18 you know, has proven so much (indecipherable). So I think
19 they've landed in a good spot and hopefully it's going to
20 move expeditiously beyond now.

21 And I think as we move forward, nominally this
22 project took a while to come to fruition in making changes.
23 But that sort of ZNE goal was the originally expressed kind
24 of focus of that RFP originally.

25 And since then we have sort of shifted pretty I

1 think consistently. We've been shifting towards an
2 emission metric and away from kind of an energy metric.
3 And so they're not that different and so we're all kind of
4 -- even with the developers and the project partners, I
5 think that we need to kind of keep in mind that really
6 let's focus on the issues of zero net emissions.

7 And kind of so zero net energy is also focus
8 with respect to carbon emissions and the metrics that come
9 out of that and generate some numbers that actually show
10 how these buildings can be built low carbon and necessarily
11 with renewable energy too. But I think that can be a high
12 value outfit and this project. And again, I think all the
13 parties know that.

14 And it's going to, I think help inform us as we
15 go forward and through the summit and kind of try to really
16 pull the lever on changing metrics from energy over to
17 emissions. So I think this project is really a great
18 reflection of that and I fully support it.

19 COMMISSIONER DOUGLAS: You know, I'll just jump
20 in and support that statement. And I think it makes a lot
21 of sense to look towards an emissions -- and work our way
22 towards an emissions metric while obviously keeping our eye
23 on cost effectiveness and savings and so on. And so it's a
24 little bit of both, but it's certainly analytically being
25 able to really capture emissions well. And come up with

1 strategies that deal with emissions effectively is really
2 valuable, so I'm in strong support of this.

3 COMMISSIONER MCALLISTER: Yeah. Okay. I'll move
4 Item 13.

5 COMMISSIONER DOUGLAS: Second.

6 CHAIRMAN WEISENMILLER: All those in favor?

7 (Ayes.)

8 CHAIRMAN WEISENMILLER: This item also passes 4-
9 0. Thank you.

10 MR. WILLIAMS: Thank you.

11 CHAIRMAN WEISENMILLER: Let's go to Item 14.

12 MR. SIT: Good morning Chair and Commissioners.

13 My name is Joseph Sit and I'm with the Energy Efficiency
14 Research Office in the Research and Development Division.

15 This morning we are presenting two projects for
16 approval that resulted from a solicitation aimed at
17 increasing energy efficiency retrofits, lowering costs and
18 developing a program design that can be replicated
19 throughout the State of California.

20 This first project is with Prospect Silicone
21 Valley. This project will leverage funds from the state's
22 Low-Income Weatherization Program, also known as LIWP, to
23 perform retrofits of multifamily affordable housing in
24 disadvantaged communities across California

25 More specifically, this project will attempt to

1 streamline the retrofit process by standardizing the
2 installation of a limited set of retrofit technologies that
3 include high efficiency equipment, controls, and building
4 envelope upgrades that can be targeted to a variety of
5 building types and vintages.

6 The second project is an agreement with InTech
7 Incorporated. This project seeks to reduce costs, improve
8 market acceptance and increase the use of efficient
9 technologies for existing commercial buildings through
10 demonstrations in schools, refrigerated warehouses, and
11 office buildings in Southern California.

12 The project team will develop a platform for
13 services for those seeking to do retrofits. The services
14 platform is intended to improve the connection of efficient
15 products and services to financing institutions,
16 implementers, and utilities.

17 The project will also document energy savings at
18 each of the retrofit sites. They will use an assessment
19 approach developed by the firm Open Energy Efficiency.

20 I will be happy to answer any questions you may
21 have. And I understand the CEO of Prospect Silicon Valley
22 is here this morning. She can answer questions.

23 CHAIRMAN WEISENMILLER: Great. Thank you.

24 First, let's start with any comments from anyone
25 in the room?

1 MS. COX: Good morning. My name is Ruth Cox.
2 I'm the CEO of Prospect Silicone Valley. And I want to
3 thank the Commission for allowing me to speak today.

4 Prospect Silicon Valley is grateful for this
5 opportunity to serve the Commission and the state on such
6 an important project. Multifamily dwellings in
7 disadvantaged communities are in need of our support. They
8 represent unique challenges. They have a large footprint
9 in the state and they have few resources to call upon.

10 We have assembled a very strong team for this
11 project, including the Association for Energy Affordability
12 and the Rocky Mountain Institute, along with new staff
13 within Prospect Silicon Valley who bring a great deal of
14 relevant experience to execute the project.

15 So we're looking forward to working closely with
16 the CEC to ensure we achieve our goals, not just on this
17 project, but hopefully the many projects that will be
18 undertaken to serve this community in the future, based on
19 what we learn. So thank you for your consideration and I
20 am here to answer any questions that you might have.

21 CHAIRMAN WEISENMILLER: Thank you. Thanks for
22 being here.

23 Any comments from anyone on the phone?

24 (No audible response.)

25 CHAIRMAN WEISENMILLER: And again, let's

1 transition to the Commissioners. Again, I'll start out and
2 Commissioner McAllister will jump in. But anyway, again
3 this is a very important area. We're moving on through the
4 barriers like we did last year. We have obviously
5 identified this as one of that needs focus. And I can't
6 say we have solutions in hand, but we're sort of working on
7 and trying to build off of last year's record, the
8 additional focus this year to make some progress here.

9 COMMISSIONER MCALLISTER: So at the same time I
10 definitely feel like there's kind of a groundswell interest
11 and realization of a need in multifamily. And I very like
12 this project and it's really great. And it's going to be a
13 big lift, it's going to be difficult. We're going to learn
14 some hard lessons and I think that's the reality of it.

15 But since the original Barriers Report, staff has
16 been working on the Clime Multifamily Report (phonetic)
17 that's out for comment now as we heard over the last
18 meeting.

19 And also we've been connecting with CSD who runs
20 the Lightwood Program (indiscernible) and has seen an
21 incredible success that they are achieving. We're meeting
22 our colleagues and counterparts over at the PUC to talk
23 about the potential uses of the ESO money and sort of look
24 at long-term with that. Just brainstorming really, but I
25 think there's some possibility there for productive use of

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1 that money and investment in multifamily.

2 So I think as a basis for a new conversation
3 maybe meet with the Legislature next year about how to
4 focus on old family and just really full core press it.
5 Because I've said it before, but I think we just really
6 need to keep it in mind that multifamily and particularly
7 low-income multifamily are some of our most vulnerable
8 populations. And 20 or 30 years down the road, when we are
9 all okay have we achieved our emissions goals? And they
10 haven't been along, there haven't been new jobs created
11 and haven't been solutions figured out like we're talking
12 in the sector right now, then we're not going to be able to
13 say it was successful.

14 And so we really need to keep that from happening
15 and make progress alongside all of the other stuff we're
16 doing out there in the market with RPS and efficiency and
17 new construction and everything, existing buildings and
18 then the existing (indiscernible) really need to make the
19 same focus in there. And this is a good project given the
20 topics, so I support it.

21 COMMISSIONER SCOTT: Yeah, one of the themes that
22 I heard Intech Project and Prospect Silicon Valley is to
23 look to see how you can develop retrofits that you could
24 make into a package or standardize. And I think that's a
25 really important theme here. Again, echoing both what the

1 Chair and Commissioner McAllister said, making sure low-
2 income communities are part of our clean energy revolution
3 that the state is working to undertake is incredibly
4 important.

5 And I think in all instances to be able
6 effectuate the level of change that we're talking about on
7 that really tight time line, we've got to have things that
8 are standardized that are simple, that are in a package
9 form that are replicable and really work. So I'm very much
10 looking forward to see what we learn from these projects.

11 A

12 And I am happy to move approval of Item 14.

13 COMMISSIONER MCALLISTER: I'll second.

14 CHAIRMAN WEISENMILLER: All those in favor?

15 (Ayes.)

16 CHAIRMAN WEISENMILLER: This item passes 4-0
17 again. Thank you.

18 Let's on to 15.

19 MR. GRAVELY: Good morning Chair Weisenmiller and
20 Commissioners. I'm Mike Gravelly, from the R&D Division.
21 And I'm here to request approval of two grants that were
22 competitively selected under the Microgrid Grant Funding
23 Opportunity 17-302.

24 The first item is the Sonoma County Junior
25 College. This represents just slightly below \$5 million in

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1 EPIC funds and they are providing \$8.6 million in match
2 funding. Sonoma County was substantially impacted last
3 year in the fires and one of the primary focuses on this
4 microgrid is to design a microgrid to provide the college
5 and the local community emergency services, shelter and
6 protection during climate-change induced events that result
7 in unexpected utility challenges and outcomes and outages.

8 They also will be working specifically on power
9 quality inputs on the grid and being able to provide better
10 services to the utility. They will also be automating and
11 responding to grid needs for both real and reactive power.
12 And also will be developing a business case for the future,
13 so that this can be replicated with other universities and
14 other similar communities.

15 The second item from Humboldt State again is
16 referencing roughly \$5 million in EPIC funds and 6.3
17 million in match funding.

18 This project is specifically looking at the
19 frequency of reliability and value to the community and
20 also to the local airport, as well as the local community
21 for the use of clean DER to support their microgrid system.

22 The Coast Guard also operates from this
23 particular airport. And they will be providing services to
24 help ensure that the Coast Guard can operate during
25 contingencies to provide the services they provide to the

1 local community and the state.

2 This is also very unique in the sense this is a
3 combination of a CCA and an IOU, working together in
4 partnership to build and develop a plan that will deploy
5 for multiple customers, hence provide services to multiple
6 customers. But also to develop fair and reasonable rates
7 that work for the ISO and for the CCA ,including developing
8 tariffs and agreements that can be used as pilots to share
9 with others throughout the state.

10 With that, I'd like to point for the Humboldt one
11 the microgrid was evaluated by the lead agency, Humboldt
12 County, in a Mitigated Negative Declaration. Staff
13 determined that the microgrid itself causes no significant
14 environmental impacts or substantially more severe
15 environmental impacts beyond those already considered and
16 mitigated as discussed in the background documents that are
17 included today in the Business Meeting package.

18 We seek your adoption of CEQA findings, as well
19 as approval of the two grants that were just discussed.

20 We have online for Humboldt State, the principle
21 investigator Professor Peter Lehman. And I understand the
22 Public Adviser has a comment that she would like to read
23 into the record for Humboldt State also.

24 CHAIRMAN WEISENMILLER: Great. Thank you, Mike.

25 Let's start with any comments from anyone in the

1 room.

2 MS. MATHEWS: Good afternoon. This comment is
3 from Thomas Stewart.

4 "Commissioners, the validity of a solar microgrid
5 at the California Redwood Coast Airport in Humboldt County
6 has some potential problems. One: Fog and weather
7 conditions at the airport. In 1939, the U.S. Government
8 sent a survey team north from San Francisco to find sites
9 within one mile of the coast that could accommodate a 5,000
10 foot runway. This is a quoted source from
11 militarymuseum.org.

12 "Unfortunately, after the Navy opened a station,
13 it discovered that Arcata had the third foggiest weather in
14 the world. On occasion, fog would set in for weeks at a
15 time. As a result, the Navy failed to achieve the maximum
16 intended utilization of the station, but did take advantage
17 of the situation by conducting fog disbursal experiments.

18 "Humboldt State University Schatz Energy Research
19 Center, SCRC, is an independent research facility on the
20 HSU campus. And Peter Lehman is the Director. In an
21 interview with the *Times Standard* newspaper, he made the
22 following statements about the project. 'It will by far be
23 the biggest array in Humboldt County,' he said noting, 'It
24 will be five times bigger than the array near the Blue Lake
25 Casino and hotel. An array that size can provide enough

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1 energy to power 500 homes,' Lehman said.

2 "The Blue Lake Casino Peter Lehman spoke about in
3 the *Times Standard* article went online last year at a cost
4 of 5 million and is projected to save the casino about
5 200,000 annually in electrical costs. This was a Schatz
6 Energy Research Center project and funded from the EPIC
7 program.

8 "There has been no annual assignment done for
9 solar radiation at the airport, the microgrid's location.
10 There are five airports within a 15-mile radius of Eureka.
11 CAL FIRE has bases at Kneeland Airport and Rohnerville
12 Airport. The Coast Guard helicopter station is at Redwood
13 Coast Airport, the proposed site of the microgrid. This
14 area has many micro climates due to the terrain and
15 proximity to the ocean. It is not uncommon to see fog in
16 some areas and clear skies in others. In the summer
17 months, along the coast it is also not uncommon to see fog
18 and overcast conditions.

19 "The second issue is a potential glare issue.
20 There's a potential glare issue that could affect pilots
21 landing at the airport from nine acres of solar panels.
22 The main airstrip has a north-south orientation with planes
23 approaching from the south and landing on Runway 32. There
24 are approximately 1,200 commercial airline flights landing
25 the airport each year.

1 "Number three, the cost of the project. The cost
2 of this project is \$11.3 million. The electrical savings
3 are approximately 70,000 annually. It would take 161 years
4 to pay back the project with the savings in electricity.
5 Can you test the microgrid that has this much more
6 generating capacity as projected by SERC without having an
7 adequate load factor?

8 "We have been fortunate to not have a major
9 disaster here since the 1964 flood. We have many avenues
10 of transportation in and out of our area, including Highway
11 101, 299, 36. Humboldt Bay serves as a main source of
12 transportation fuel. Gasoline is sparse in Humboldt Bay,
13 which eliminates the need of 800 trucks on our highways
14 each month.

15 "I have made many attempts to see the full
16 project proposal from Schatz Energy Research Center to no
17 avail. Thank you. Thomas Stewart."

18 CHAIRMAN WEISENMILLER: Thank you.

19 Anyone else in the room? Then let's go to the
20 telephone line.

21 MR. LEHMAN: I'm Founding Director of the Schatz
22 Energy Research Center and I'm speaking support of this
23 project. I can respond to specific things in the statement
24 you just heard, but I have a statement to read first.

25 I'll speak of two main benefits that were

1 approved to California (indecipherable) through the
2 project. The grant funding opportunity that led to this
3 award specifically called for projects that would and I'm
4 quoting "demonstrate the business case for advanced
5 microgrids." This project does that. That's the first
6 benefit.

7 There are three emerging trends that are
8 affecting the electricity grid in California. First,
9 natural disasters are increasing in severity. The
10 hurricanes in Texas and Puerto Rico and the devastating
11 fires here in California are recent examples. These events
12 are driving us to provide for increased resilience for our
13 critical facilities.

14 Second, utilities are transitioning to the smart
15 grid of the future, integrating microgrids and distributing
16 energy resources into the distribution grids.

17 And third, renewing choice aggregation programs
18 are proliferating in California. These CCAs are funding
19 projects to deliver local renewable energy to their
20 customers and they are mandated to install energy storage
21 in the near future.

22 These three trends are coalescing in the airport
23 project. The Redwood Coast Energy Authority, the
24 administrator of our local CCA will own and operate the two
25 megawatt PV generators and the eight megawatt hour

1 batteries that are part of this project.

2 PG&E, our local utility, will own and operate the
3 distribution system. The microgrid will pilot and provide
4 a renewable energy lifeline to our isolated rural region in
5 the event of a natural disaster.

6 This confluence of factors represents a viable
7 business model showing how CCAs, the utilities and
8 resilience planning can combine, strengthen and green
9 California's electric grid.

10 The second major benefit will be working out the
11 cooperation necessary to clean out local CCAs and PG&E. As
12 the first, front-of-the-meter multi-customer micro grid in
13 PG&E's service territory this project will be a Test A for
14 the policies, tariff structures and operating procedures
15 necessary to integrate microgrids into California's
16 electric grid.

17 The lessons we will learn in this project will
18 create a roadmap for microgrid integration across the
19 state. Thanks for considering this project. I'll be
20 pleased to respond to any questions.

21 CHAIRMAN WEISENMILLER: Okay. Thank you.

22 I just want to ask, is there anyone else on the
23 line?

24 (No audible response.)

25 CHAIRMAN WEISENMILLER: Okay. So let's

1 transition to the Commissioners. We may have follow-up
2 questions with you.

3 I just want to make a couple of observations to
4 frame things. We have in the last week, PG&E has sent out
5 letters to its customers who are in high fire risk areas,
6 notifying them that they will cut all power if they need
7 to. There are, in a commercial class, there are 4,700
8 customers in that class.

9 I would also note that last weekend there were 20
10 fires in San Diego. So basically fire season has started
11 and it's a pretty serious situation. I think in that
12 context certainly we've been reaching out to the utilities
13 about, and the PUC, about really the need to move
14 microgrids into the essential facilities in high fire risk
15 areas. It's either that or (indiscernible) so it's time to
16 move more towards the future in this area. Go ahead.

17 COMMISSIONER DOUGLAS: If I could just jump in?
18 I will also add that I was recently in Humboldt County and
19 we actually had a presentation on this project at the
20 workshop we had down there. And I had an opportunity to
21 learn a bit about it.

22 I agree with the Chair that the emphasis on
23 resiliency and being able to maintain reliable electricity
24 in difficult conditions, especially when you look at
25 Humboldt County. It is a very rural county without much

1 opportunity to get power in from other locations, so there
2 are definitely some challenges there.

3 I have heard that the airport's in a foggy
4 location. However, I know it's been analyzed in the
5 project in terms of solar output and sizing the project in
6 order to make it work. And of course the airport is
7 critical infrastructure and I believe we've got the
8 projects -- includes really all the entities you would need
9 from the utility and the CCA and the airport and the Coast
10 Guard, to really have a very strong partnership that I
11 think will benefit the region.

12 So I'm in support of this item.

13 CHAIRMAN WEISENMILLER: Yeah. I was going to ask
14 first Mike and then Peter to respond specifically on the
15 cost effectiveness questions.

16

17 MR. GRAVELY: Yes, sir. The reference of \$70,000
18 he mentioned was specifically for the County's net metering
19 value that was in the proposal. This proposal has many
20 value streams that will be assessed invaluable in the next
21 three to four years, as they demonstrate and build their
22 microgrid, including the reliability value, the value to
23 the community, the airport and the residents.

24 There also will be a value obtained from their
25 ability to participate in the ISO. It was estimated at

1 over \$250,000 a year in service they will provide. They
2 will be measuring and reporting on the greenhouse gas
3 reductions and the criteria pollutants and again there
4 will be some type of value to that to be determined.
5 There's not currently a current number for that.

6 And also, this was again, the value of the CCA
7 and the IOU working together to develop rates and tariffs
8 to allow them to operate with fair communications on both
9 sides to provide that area from us. And just in general
10 the reliability element in that community and the ability
11 to demonstrate their capability to respond and continue the
12 services for critical facilities.

13 So that 70,000 is just one revenue stream of many
14 that we'll be evaluating. This is research project, so
15 they're estimated and one of the things that we have to do
16 in this one is they're required to a specific M&V plan, to
17 actually measure their savings. And report on what the
18 actuals are versus what they estimated in their proposal.

19 CHAIRMAN WEISENMILLER: Okay.

20 Peter. Do you have any comments?

21 MR. LEHMAN: I don't really have a lot to add. I
22 think Mike covered it. Well, let me just say one thing.
23 We have gotten huge support from our partners in this
24 project. We have a crack team assembled. And PG&E has
25 been a great partner for over -- we have submitted the

1 proposal and since they have another parallel EPIC project
2 they are using this airport microgrid project as a test
3 case for integrating microgrids into their grid
4 distribution system.

5 So to them it's a very important project. And
6 they have been very helpful and engaged.

7 CHAIRMAN WEISENMILLER: Yeah. Well, again I know
8 certainly PG&E and I have been talking about how they can
9 collectively move forward on microgrids and high fire risk
10 areas. And so certainly this is a good example of that
11 coming up on (indiscernible).

12 MR. GRAVELY: So just one final comment, if you
13 don't mind? A reference of -- I did have a chance, he had
14 reached out to the Commission last week and I was able to
15 talk with him for about 45 minutes and address as well as
16 possible from my ability, his concerns. One of his
17 concerns was getting a copy of the proposal. I instructed
18 him how to do that and I know that the Grants and Loans
19 Office has reached out to him, by email to get give him
20 that information.

21 So I know that if he maybe doesn't have it right
22 now, the process is in place for him to get whatever copies
23 of public documents he wants.

24 MR. LEHMAN: I'll make one more comment. He
25 mentioned the glare at the airport? We have done an FAA

1 approved glare analysis, using (indiscernible) developed by
2 Sandia Labs. And all four approaches passed the glare
3 analysis, so this will be an FAA approved budget.

4 CHAIRMAN WEISENMILLER: Great, (indiscernible) do
5 say in the record that (indiscernible) that we get, that he
6 has a copy of those.

7

8 MR. GRAVELY: I'm sorry, say that again?

9 CHAIRMAN WEISENMILLER: Okay.

10 Well, basically -- well why don't you come up to
11 the microphone? I just want to make sure that obviously
12 speaking in the back there doesn't get on to the record.

13 MS. GRANT-KILEY: I do have a voice that carries,
14 though. Rachel Grant-Kiley, the Manager of the Contracts,
15 Grants and Loans Office. He does have a link to the
16 proposal documents. He was provided a direct link and
17 there was confirmation that he received the link.

18 CHAIRMAN WEISENMILLER: Okay. Thank you.

19 COMMISSIONER MCALLISTER: So I just have one
20 brief comment on this. So I think this is absolutely a
21 valid thing to be doing. And I kind of find myself
22 ultimately when we talk about microgrids being a little bit
23 of the let's -- everything's not a nail, right? And a
24 microgrid isn't sort of appropriate in all circumstances.
25 And so I think part of the challenge is to figure out,

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1 learn where they are really needed, where the incremental
2 reliability is really, really needed and actually that has
3 concrete consequences. And then go to those places and we
4 do as many of those as possible, microgrids.

5 And over the course of that get the cost down and
6 then we'll enter some technologies that will then be able
7 to permeate the distribution grid. But the goal is not
8 necessarily the whole distribution grid be a complete
9 assembly of microgrids, right?

10 And so I think we really need to think about this
11 in a judicial way, because we have lots of approaches
12 competing for dollars, for ratepayer dollars and all of
13 this goes back to ratepayers. So just keeping in mind what
14 technologies there are. They're all really cool, but sort
15 of which ones are needed in the distribution grid as we
16 move forward. You know, which will be many of them, but I
17 always sort of find myself wanting to inject a little bit
18 of -- just a little bit of realism in the conversation.

19 And so it's not to take away anything from this
20 work. I mean, it's was really valuable work. We need to
21 be in a place where these approaches really become
22 commodities. And the criteria by which you apply a given
23 strategy is pretty much has a standard, so this whole
24 (indecipherable) at that time.

25 COMMISSIONER DOUGLAS: I'll move approval of this

1 item.

2 COMMISSIONER MCALLISTER: I'll second.

3 CHAIRMAN WEISENMILLER: All those in favor?

4 (Ayes.)

5 CHAIRMAN WEISENMILLER: This item also passes 4-
6 0.

7 Thanks, Mike.

8 CHAIRMAN WEISENMILLER: Let's on to 16, the
9 minutes.

10 COMMISSIONER DOUGLAS: Move the minutes

11 COMMISSIONER MCALLISTER: Second.

12 CHAIRMAN WEISENMILLER: All those in favor?

13 (Ayes.)

14 CHAIRMAN WEISENMILLER: The minutes are approved
15 4-0. Let's go on to 17, Lead Commissioner or Presiding
16 Member Reports.

17 Commissioner Scott?

18 COMMISSIONER SCOTT: Great, just a couple of
19 updates for you all. As you may recall, the Energy
20 Commission has had a collaborative with many of our ports
21 here in the state for three or four years now: Port of San
22 Diego, Port of Long Beach, Port of Los Angeles, Port of
23 Hueneme, Port of Stockton and Port of Oakland.

24 We had our in-person meeting last week, down at
25 the Port of L.A. It was a great opportunity to see some of

1 the cargo handling equipment that has been electrified, so
2 there is a few pieces of equipment that have been rolled
3 off the line and are starting to be delivered to the ports.

4 We also have some of the charging infrastructure
5 for those vehicles being delivered or not delivered, but
6 they are at the ports and kind of ready to start charging
7 up the vehicles. So it's great to really see some of this
8 start rolling out. So we had an opportunity to talk with
9 our upper-end support. We're also working on microgrids,
10 on lighting and on transportation electrification. So it's
11 kind of all of the things the Energy Commission touches
12 that are also of interest to the port and how can we
13 demonstrate things there together.

14 So it was a great meeting. We talked about other
15 things that we can be continuing to work on together and
16 then it was really neat to see after a few years of working
17 together there is equipment out there. It's getting ready
18 to be put through its paces at the ports. And so a great
19 thanks to Port of L.A. for being a host for us for that.
20 So that will continue on. We'll continue to do meetings
21 every other month or so and then in person meetings about
22 twice a year.

23 I also had a chance to speak with the Silicon
24 Valley Leadership Group about what the Energy Commission is
25 doing on the transportation electrification space and in

1 transportation. So we talked pretty broadly about
2 different things that are of interest to many of the
3 members of the Silicon Valley Leadership Group. So it's
4 always nice to have that venture capital finance overlay
5 and perspective into the different types of things we're
6 doing. And where are there ways that we may be able to
7 collaborate or be more effective in how we get dollars out?
8 So I appreciated the invitation to be able to go and speak
9 with them.

10 The California Air Resources Board, as you all
11 are probably well aware are celebrating their 50th
12 anniversary all year, this year. And a few weeks ago I had
13 a great opportunity participate in the celebration that
14 they had in UC Riverside. And the beginning of the day,
15 the first panel talked about 50 years and the
16 accomplishments of the Air Resources Board and what -- you
17 know, and it started with folks not really knowing what was
18 causing air pollution, right? So that's kind of where we
19 started to where Air Resources Board is today.

20 Then the panel that I was on was looking out for
21 50 more years of Air Resources Board. And one of the
22 things that we all talked about a little bit is that if
23 we're looking at our 2050 goals, that's actually not 50
24 more years of Air Resources Board, that's like 30 more
25 years, right? And so all of the progress that we made over

1 the last 50 years, we need that and some to hit the 2050
2 goals.

3 And it was pretty interesting. I mean, we talked
4 about smart cities, how to design cities in a smart way.
5 We talked about what could happen in a transportation
6 space, because we had folks from UC Riverside there. And
7 they will have the new lab that Air Resources Board is
8 putting together. How do you measure things? What's the
9 best way to start measuring pollution out of vehicles when
10 we have vehicles with no tail pipe pollution right, or is
11 very, very minute numbers. And so how they measure and how
12 the types of equipment that they're going to have in the
13 lab will change from what we've seen in the past 50 years
14 to what we would see in the next 50 years.

15 And then we had a chance to talk about the
16 Citizens' Science Brigade that we're going to have from AB
17 617, right, of folks being able to monitor all around their
18 communities what's happening in air pollution and what does
19 that mean going forward? How do you capture that
20 information and really take it and turn it into effective
21 policies or regulations or things like that for
22 communities.

23 So it was kind of a fun, little bit of a
24 hodgepodge, but kind of a fun look out into the next 50
25 years of ARB, so I was delighted to get to be part of that.

1 Courtney Smith, our Deputy Executive Officer was able to
2 join as well. So it was a nice chance for us to celebrate
3 and support out sister agency.

4 And then, as you all know, it's summer. And so I
5 just wanted to take a minute to recognize our two summer
6 interns are here. They're sort of in the back row.
7 They're waving at you. Adriana Gomez who probably looks
8 familiar, because this is her fourth internship here at the
9 Energy Commission. I am so delighted to have her back.
10 She's on her way to law school, so we're going to have to
11 make sure she gets some good exposure in Courtney's office
12 so that she'll come back again after law school to the
13 Energy Commission.

14 And then Claire Sugihara and this is her first
15 summer here at the Commission. And she's on her way to UC
16 Davis and has just recently graduated and is on her way to
17 UC Davis. So you'll see her around full time this summer
18 and then hopefully 8-10 hours a week into the school year.
19 So welcome to both of you. We're delighted to have you.

20 And those are my updates

21 COMMISSIONER MCALLISTER: Well, let's see. My
22 main events really revolve around a trip I took to Denmark
23 for the EE Global and the Clean Energy Ministerial and the
24 Mission Innovation and Nordic Energy Week, which were all
25 kind of wrapped up and tied up into a bow during the course

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1 of a week in Copenhagen and then across the way, across the
2 bridge in Malmo, Sweden.

3 So just a few to cap, it was a very, very
4 interesting trip. Super, just packed with meetings and
5 presentations and just good conversation, a lot of
6 innovation going over there that I think in general we are
7 not paying direct attention. It's far away, you know, it's
8 a different context. But so just going over there and
9 talking to actually (indiscernible) on a lot of these
10 innovative projects is worthwhile.

11 And in particular, the International Energy
12 Agency has an Energy Efficiency Office now that really has
13 legs, and (indiscernible) levels that's going to be here.
14 But it took a while to happen, but it's a good thing and so
15 they were cosponsoring EE Global. And we put together a
16 series of activities, in particular a panel on data issues.
17 And so across the world these issues of how to -- this
18 question of how to use modern analytical tools for the Pro
19 Bid Policy, (phonetic) right? And sort of we hear a lot of
20 stuff out in the marketplace for how our data gets used,
21 but how can we leverage the new abilities to do better
22 analyses and to understand where we've been and where we're
23 going?

24 And so a lot of different jurisdictions are
25 thinking about that. And so I may actually be willing to

1 marshal some of that discussion at an international level.
2 To the extent it's helpful to develop some kind of form of
3 standards and share good analytical approaches and things
4 like that, so I think that it could be useful, very early
5 stage but promising.

6 And on Malmo over in Sweden they had Nordic
7 Energy Week and Mission Innovation and I spent a day over
8 there at an incubator. And in particular at a company
9 that's doing really advanced showers that save 95 percent
10 of the water in (indiscernible) shower that's really a
11 promising technology, I think. But it saves the heat and
12 water and you can take a long shower and really it just
13 keeps using the same water, so it's kind of a luxurious
14 product. With no-guilt long showers it's like sort of
15 Nirvana for a lot of people, so they have a lot of IP that
16 they're developing. And it looks very promising,
17 particularly for institutional applications.

18 Anyway, the way that they have received their
19 sort of seed funding from the Swedish government in this,
20 and the different kind of support they get, I think are
21 kind of instructive for us. It's different than the way we
22 do it here, but also interesting.

23 I also visited an incubator in Copenhagen called
24 BLOXHUB and a really impressive facility. They're not
25 focused on clean energy only, although there's a clean

1 energy component. They're really focused on innovation in
2 the municipal governments area. And I thought that was
3 really an instance of how can we do Copenhagen and other
4 cities better, you know. And so there's a big heavy tech
5 component for that. It gets into the data issues. It gets
6 into the sort of service provision authorization and that
7 kind of stuff. And a lot of smart with little offices
8 trying to drive their startups to market and they actually
9 partner with other countries to bring their researchers and
10 let them sit there. So there's quite an international set
11 of activities going on there, so I thought that was a
12 really interesting part of their model to cross-pollinate
13 with other cities for those reasons.

14 I did participate on the Clean Energy Ministerial
15 Buildings Round Table, so very high-level, sort of single
16 statements from the emissaries that were there and now it's
17 sort of in wrap-up thanks for coming. But it did get a
18 good conversation started, I think. You know, in two hours
19 you just can't get that deep when it's really about the
20 sort of high-level government officials, but a lot of
21 follow-up work to be done.

22 I talked to the British Home Office. And to
23 Commissioner Scott, to your point on one of the items today
24 when we're looking at existing buildings and trying to
25 figure out when we have an existing building multifamily

1 item, they have had -- I mean, their struggles are our
2 struggles. You know, their struggles, they have not had
3 just wild success on what they've been doing to try to
4 standardize their approach to multifamily buildings for
5 lots of different reasons. For different reasons than
6 we're going to have here, than we have here. They have old
7 buildings that are even harder to retrofit I would say and
8 not lack of standards, right? So figuring out what that
9 sweet spot is in our context is going to be challenging.
10 And I think we're headed at it straight away, we're leaning
11 into it and hopefully we're going to figure that out. And
12 I think there's a lot of exchange to be done with the Brits
13 on their Brevitts. (phonetic)

14 I interacted a lot with our Mexico counterparts
15 and our Indian counterparts. So the Governor's Office
16 wanted -- you know, we all want to develop Indian
17 relationships, because there's some really great synergies
18 there in terms of technology development and building
19 technologies that can be usable on one or both sides. So
20 establish relationships at the high-end ministry levels and
21 hopefully those will pan out as the summit approaches.

22 And then let's see, the last thing is I touched
23 base with the Ministry of Denmark right before I was going
24 to head out. And I went and visited a plant, so this one
25 plant which is north of Copenhagen produces 22 percent of

1 the world's pectin, okay? You know, jams and jellies, so
2 it's a huge plant. So if you go to the store and you buy a
3 pack of pectin it probably came out of this plant.

4 And it's part of a company that actually has a
5 site down in San Diego, but they are doing amazing things
6 on the combined heat and shower front, on the district
7 heating and cooling front and on the heat pump front. They
8 have these massive heat pumps that are really optimizing
9 the way the cold processes and the hot processes work
10 together, really, really making sure that the waste from
11 one feeds the other. And I think we can learn more from
12 that and particularly the agricultural processing work
13 that's going on here. And I think it would be ideal to get
14 a delegation of those folks over here to come and kind of
15 help us find solutions for that sector.

16 And along the way when the Danes are ready
17 possibly work in the efficiency MOUs that we have with them
18 already. There's a lot of interest in that. They're in
19 the middle of the process of updating their energy policy
20 right now, so it's sort of not quite the right moment. But
21 I think when they get to that point I think that will be
22 the moment to do something more formal in terms of that
23 meeting.

24 And then my final day there, everybody rides
25 bikes in Copenhagen, so I rented a bike for the week and

1 went to all my meetings on a bike. And it's the best way
2 to get around there, I mean it's incredible. Everybody,
3 it's like you're riding on a peloton when you commute and
4 people are (indiscernible). But the last day I was there
5 and I went and visited these two power plants that are
6 being built right on the coast. One of them got some press
7 for having a ski slope on it, did you see that? So they
8 have (indiscernible) so one of them burns wood pallets, the
9 other one burns municipal waste. They're both together,
10 replacing an old coal fire generator and then beyond there
11 on the coast. And beyond you just see dozens and dozens of
12 massive bin turbines, you know, offshore wind right out
13 there. So it definitely feels like the future, you know?

14 But I went up there and looked at this power
15 plant that was under construction and sure enough it's got
16 a shroud around it. And it's got this very Scandinavian
17 design looking appearance and they will rent you roller
18 skis. And you go down and do a 180 and then you come down
19 to the parking lot and so that's part of their
20 incorporation of their -- I guess it's a mitigation
21 mechanism of some kind. (Laughter.) You know, it's a more
22 than vigil right sort of community mitigation and certainly
23 the ultimate ramping resource. (Laughter.)

24 So with that I think yeah, it was a pretty good
25 trip and there are a lot of threads to follow up on, but

1 that's my main op.

2 COMMISSIONER DOUGLAS: All right. Well, you're
3 giving me ideas Andrew. (Laughter.) But in any case, I've
4 just got a couple of quick things to report. I had an
5 opportunity to listen in on a presentation by the USD
6 Energy and Law Policy Clinic students. Kourtney, you may
7 want to speak to that, but they did some nice research for
8 us as we think about opportunities and potential directions
9 of some of the enforcement work that the Energy Commission
10 does.

11 I spent a day on June 1st at the Manatt Energy
12 Forum and that was a really nice discussion actually, some
13 environmental representation. A pretty good cross-section
14 of some business interests and it was an interesting
15 discussion. I had a chance to just talk about California
16 energy policy and where we're going and how substantial
17 some of the changes have been that we've seen in our energy
18 sector.

19 And I think, yeah I'll stop there. I would just
20 say I enjoyed the workshop on multifamily buildings. That
21 was pretty interesting and so I think that's my report.
22 Thanks.

23 CHAIRMAN WEISENMILLER: I think since our last
24 business meeting the thing I'm going to talk about is my
25 trip to China. So we put together a trip to China. Part

1 of the theme, obviously, was the Climate Summit. I think
2 there's a lot of reasons why it's important to the Governor
3 to have China participate in the Summit. So basically I
4 went to four cities in like nine, ten to -- you know, it
5 was one of those incredibly packed things where you always
6 wish you had more time, but you know?

7 COMMISSIONER DOUGLAS: Then it'd just be more
8 activities.

9 CHAIRMAN WEISENMILLER: First off was Shanghai
10 and McKinsey was having their annual Sustainability event
11 there. And so I gave a keynote there on issues and
12 participated in some of the panels. It was actually a two-
13 day event and I, as I said, managed to make the second but
14 not the first day. As you recall, I sort of came back from
15 vacation. Had a short week and I just was not ready to get
16 on a plane and that's Sunday as opposed to the Monday. So
17 that was a good event, a lot of good contacts.

18 Went from there to Guangzhou and gave a talk at
19 the U.S. China Clean Tech. And that was a two part. There
20 was basically Guangdong was having an event on sort of the
21 province on a general business development climate and then
22 there was a U.S. China group that had an event. I was on a
23 panel there talking again about the energy issues. And
24 that was a very good event. There again, it's a province
25 we have very deep relationships with. I mean, the meeting

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1 in California came from there in some fashion, so if you
2 look at parts of China. And again, when the Governor and I
3 went on his first trip to China that was one of our stops,
4 so again it was a good opportunity to connect with them and
5 pursue some of the issues.

6 We went from there to Beijing and met with the
7 new minister there. The NDRC used to be the premier energy
8 and environment agency and now it's been split, so we met
9 with basically the climate part. And with the Energy
10 Foundation talked again about scoping out the summit,
11 basically caught up with a number of players in Beijing.

12 And the final stop was in Chengdu, which again
13 the Governor and I had gone there on his last trip, and
14 there was a China-U.S. Governors event and it bounces back
15 and forth from say Oregon in to China and this was the
16 China part. And actually the first part of it was in
17 Beijing and while we were in Beijing on that Monday I met
18 with Vice Premier Liu who had just flown back from meeting
19 with Trump the day before, working through the China-U.S.
20 trade wars issues (indiscernible) had a resolution. I
21 would say Vice Premier Liu is quite impressive.

22 But we then went to Chengdu, was sort of the next
23 stage on this event. A lot of focus on trade, you know,
24 the Chinese. I don't know if they still are, but were
25 looking for ways to enhance buying stuff from the U.S. be

1 it LNG, be it wine from California, be it in a port from
2 where -- just how to deal with the mythical trade deficit
3 by purchasing more from us and trying to dampen some of the
4 trade wars part.

5 The Ambassador was there, the Governor of Alaska
6 there with key Alaska businesses. New Mexico had the
7 Lieutenant Governor and three elected officials, so
8 actually we were the only democratic state there. Although
9 there was certainly a video from the Governor of the State
10 of Washington, but it was very centric and certainly the
11 Trump folks were very focused on how to enhance the trade
12 opportunities from more their base.

13 But again, it's a province where we have a very
14 deep relationship with and pretty good discussions about
15 next steps there.

16 It was interesting in terms of one of the stops,
17 on my second stop the panel had a gentleman from the World
18 Bank. I think it's the World Bank and their public
19 transportation used to have a program together to go to
20 buses and with the inauguration the U.S. pulled out of that
21 program to the shock or surprise from the World Bank and
22 the gentleman working on it.

23 So anyway, it was as usual a pretty packed series
24 of events in China. And obviously it's a very large
25 country, very diverse. I mean, we went from Beijing, which

1 is relatively north down to Bozhou (phonetic) is really
2 tropical. So we covered a lot of space, a lot of time on
3 domestic airlines in China. I would note they do have a
4 new requirement for when you land in China you must be
5 fingerprinted if you're not Chinese. And there were some
6 issues with the technology that night, so it was fairly
7 painful going through the process. But I assume they'll
8 get it down over time.

9 But anyways, it was good. Chief Counsel's
10 Report?

11 MS. VACCARO: So I only have like two or three
12 items. The first is, as you know we will be going into the
13 closed session and the Chair will be teeing that up for the
14 record.

15 The second item is just again very brief, but I'm
16 at that point where I have a few more introductions to do.
17 The first is I'm very pleased to introduce to you
18 Jacqueline Moore who might have left, she was back there.
19 (Laughter.) That's why I'm peering back there.

20 Jacqueline left. She is actually one of our new
21 additions to the house unit. She's going to be doing quite
22 a bit of work for the Efficiency Group. She had her own
23 law firm. She was a partner in that law firm for several
24 years representing entities who would seek entitlements
25 from, and appear before state agencies. So I think having

1 that breadth and depth of knowledge having to help us in
2 our office, I think it going to be fabulous. So she was
3 back there for the longest time, but she --

4 CHAIRMAN WEISENMILLER: Hopefully, we didn't
5 scare her off. (Laughter.)

6 MS. VACCARO: She's been with us for about a
7 month and a half now, so you may have seen her in some of
8 the meetings.

9 And then I have two law students. I have Paige
10 Samblanet and Nathan Muir. Paige is with Loyola Law
11 School, Nathan goes to the University of San Diego.
12 They've already hit the ground running. I'm really, really
13 pleased that they decided to join our office this summer.
14 So now you have some names and faces when you see them in
15 various meetings.

16 CHAIRMAN WEISENMILLER: Great, welcome aboard.

17 MR. MUIR: Thank you.

18 MS. SAMBLANET: Thank you.

19 CHAIRMAN WEISENMILLER: How about --

20 COMMISSIONER DOUGLAS: Closed session?

21 CHAIRMAN WEISENMILLER: No. Let's go to the
22 Executive Director Report.

23 MR. BOHAN: Good still morning. I have nothing
24 to report. I would note however that the budget is nearing
25 completion in the Legislature it appears, and there are

1 some items that are important, so the next Business meeting
2 I'll report on those.

3 CHAIRMAN WEISENMILLER: Great.

4 Public Adviser Report, I guess I should ask
5 whether you folks should be standing at the mic, but
6 anyway.

7 MR. BOHAN: Yeah.

8 CHAIRMAN WEISENMILLER: I think Drew reminded
9 everyone, but sat down for his. (Laughter.)

10 MS. MATHEWS: Okay. So the first thing I'm going
11 to do my introduction. I have a new intern, Maria Alvarez,
12 I'll have her stand up. And so she will actually be
13 helping in a lot of our workshops facilitating the public
14 comment with the Public Adviser's Office, glad to have her
15 here.

16 On May 18th I had an opportunity to attend the
17 Asians in Energy in collaboration with the Hispanics in
18 Energy. They had their first Renewable Energy Summit, so
19 that was another opportunity to talk about energy
20 commissioner programs. Also represented was ARB Strategic
21 Growth Council and the CPUC.

22 And then May 23rd to 25th, I'm really excited to
23 report about this, I attended the Energy Out West
24 Conference. I was one of the invited speakers. And
25 they're an energy efficiency nonprofit for weatherization

1 professionals and policy makers, so it was actually -- I
2 thought it was Energy Out West, it was just Western States,
3 but there were actually representatives from 48 states and
4 4 different territories.

5 And I spoke about partnerships, innovative
6 strategies for building partnerships in the community. So
7 I do a lot of work internally to help our staff understand
8 how to reach out to disadvantaged communities, but it's
9 also to look at the people who are on the ground who are
10 working. How can they access our funding, but how can they
11 build partnerships and leverage? So we thought of some
12 pretty innovative things, such as high gamification,
13 (phonetic) because they have outreach challenges as well.
14 So if everybody remembers like Pokémon Go, so maybe if you
15 team up and people who come to your presentation to learn
16 about the services, to take advantage, maybe there is some
17 kind of way to gamify that to get people interested.

18 Also, I'm pleased to say that the Energy
19 Indicators Report came up. One of the sponsors is the
20 Department of Energy, so they have had some feedback on our
21 Energy Indicators Report. And so on their own without me
22 having to say it, they pointed a lot of people from across
23 the country to look at that and the innovative work that
24 we're doing.

25 On May 30th I also attended the Promise Zone 3rd

1 Annual Local Partnerships Celebration. Do any of the
2 Commissioners know what a Promise Zone is?

3 COMMISSIONER SCOTT: I do, because you briefed
4 me.

5 MS. MATHEWS: So I just want to briefly explain.
6 It's a federal designation awarded by HUD and what it does
7 is it puts together, it's no money involved, but it's just
8 a designation that brings together federal, state and local
9 funding. And again, it was important for me to go to that,
10 because as we reach out to more low-income and
11 disadvantaged communities to let them all know about our
12 opportunities, there are other programs that they can
13 leverage and if our funding, let's say ask if you have
14 match funding. So it's important to know what the
15 resources, are and to just see firsthand how those
16 partnerships form. So I was able to attend that.

17 And I also will say that the President of the
18 Urbatera, (phonetic) the Disadvantaged Advisory Group that
19 we have, he is the Executive Director of the Sacramento
20 Promise Zone. There are four in the State of California,
21 so that was a great opportunity to be able to attend that.
22 And one of the five targets of a Promise Zone is
23 sustainable community revitalization. So the funding
24 programs that we have fit really neatly into their mission.

25 So I also on June 1st had the opportunity to meet

1 with the Fresno Metro Black Chamber of Commerce and they
2 actually have a weekly television or maybe it's a webcast
3 program. So I was one of the featured guests to talk about
4 Energy Commission funding, but this was a very important
5 meeting, because they were just recently awarded \$10
6 million for the Strategic Growth Council CCC Climate.

7 And I wanted to go, because a lot of times we
8 look at advocacy or policy organizations just on how to get
9 insight. I really wanted to see how this chamber was able
10 to build a partnership to win a \$10 million state agency
11 contract. And maybe in our outreach that kind of informs
12 and helps us better prepare other organizations, so I
13 thought that was unique that they were not a CBO. And
14 after they received the \$10 million they got another
15 \$100,000 from the Fresno Housing Authority. So it just
16 kind of opens the universe of the money that's invited.

17 On June 6th I attended a Women in Energy event in
18 San Francisco. I sat on the panel with Carla Peterman,
19 Commissioner Peterman with the CPUC; Erica Mackey who is
20 the Cofounder of GRID Alternatives and Stephanie Chen from
21 Greenlining. And the topic was Energy and Social Economic
22 and Racial Justice. And I wanted to share that, because it
23 was a very informative and profound discussion. Because as
24 we began to have our policies and programs reflect our
25 diversity commitment priorities we have to look beyond just

1 a zip code or geographical location and start to look at
2 the character of those particular communities.

3 And one example that came out was if you take a
4 1930s redlining map, which only allowed certain ethnicities
5 to live in a community, and you overlay that with the
6 CalEnviroScreen you'll see a lot of the same communities
7 that are highlighted.

8 So better understanding that dynamic will inform
9 and improve our outreach to those communities as well as
10 make our priority more realistic. So that's my job as
11 Public Adviser, so I'm reaching that and I'm going to push
12 that conversation as I meet with the different divisions
13 and my one-on-ones with you. I just want to tee that up,
14 because that was a conversation that's starting, but my
15 actions are now going to help this agency implement that.

16 Oh, and so part of my duties as Public Adviser,
17 is actually in the statute, is to make recommendations. So
18 that's part of the recommendations and I do have an ask of
19 each one of you, and that is at your Lead Commissioner
20 meetings, if we can have a standing PAO update. I know
21 like we might have a legislative update, but I like to have
22 a standing Public Adviser's Update. And so that will allow
23 us the opportunity to either identify opportunities where
24 there could be better outreach at an earlier stage, or give
25 an update on what we have worked with, with staff on those

1 outreach opportunities. So that's my one act.

2 And then lastly on June 8th, I attended a meeting
3 in San Diego. It was very informal. It came about,
4 because someone from San Diego was not appointed to the
5 Disadvantaged Advisory Group, so they called with a
6 complaint. And so I resolved that by saying, "Well, please
7 let me know what are the concerns and we can make sure that
8 they're heard by the Disadvantaged Advisory Group."

9 So again, the standard procedural attend
10 meetings, public comment. They felt that that might not be
11 adequate, so I made an effort to go down there. And I met
12 with representatives from about 20 different organizations
13 that work in or represent disadvantaged communities
14 including the City of San Diego, the County, Greenlining
15 now has a remote office person there; Bayview I Am My
16 Brother's Keeper, which is a Muslim faith organization in
17 the community; Climate Action Campaign; Urban Farmers and
18 Cleantech San Diego as well as GRID Alternatives.

19 So that was very fruitful and from that
20 conversation of just learning what are their unique needs,
21 and telling them about Energy Commission opportunities.
22 They decided to form a working group, and so they're going
23 to meet monthly. And the next meeting in July, hopefully I
24 will be able to bring the California Air Resources Board as
25 well as the Strategic Growth Council and possibly the

1 Environmental Defense Fund, so they can access more
2 agencies. So I'm very excited about that.

3 And then lastly, I attended an event in San Diego
4 as well from Groundworks at a senior center. And I thought
5 that was important, because as I mentioned earlier about
6 looking at the character of these communities, not just so
7 that they are -- you know, the geographical location, but
8 what's the makeup? And so outreach to elderly community
9 members is very different than anyone else. So if you're
10 just emailing on Listserv that might not necessarily work.

11 And so as we look at our disadvantaged
12 communities' priority we look at tribal communities, the
13 elder communities, rural, language access communities, so
14 taking all of that into account. And that's the
15 perspective by having that standing line item on your Lead
16 Commissioner meetings, that I hope to be more informed and
17 effective and targeted and intentional for.

18 So that is my very short report.

19 CHAIRMAN WEISENMILLER: Okay. Thanks.

20 Any public comment?

21 (No audible response.)

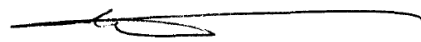
22 CHAIRMAN WEISENMILLER: Okay. So we're going to
23 go into closed session. I'm going to read a script and I
24 expect us to be back at about 1:00 o'clock, is my
25 expectation.

REPORTER' S CERTIFICATE

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

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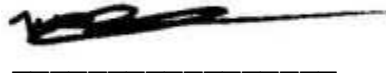
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