

**DOCKETED**

<b>Docket Number:</b>	23-BUSMTG-01
<b>Project Title:</b>	Business Meeting Agendas, Transcripts, Minutes, and Public Comments
<b>TN #:</b>	249000
<b>Document Title:</b>	Transcript of the February 15, 2023 Business Meeting
<b>Description:</b>	N/A
<b>Filer:</b>	Liza Lopez
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	2/28/2023 2:27:44 PM
<b>Docketed Date:</b>	2/28/2023

BUSINESS MEETING

BEFORE THE

CALIFORNIA ENERGY COMMISSION

In the Matter of: )  
 ) 23-BUSMTG-01  
*Business Meeting* )  
 \_\_\_\_\_ )

WEDNESDAY, FEBRUARY 15, 2023

10:00 A.M. - 3:30 P.M.

In-person at:  
 Warren-Alquist State Energy Building  
 1516 Ninth Street  
 Art Rosenfeld Hearing Room  
 Sacramento, California 95814  
 (Wheelchair Accessible)

*Remote Access Only via Zoom*

*Please note that the California Energy Commission (CEC) aims to begin the business meeting promptly at the start time and the end time is an estimate based on the agenda proposed. The meeting may end sooner or later than the time indicated depending on various factors.*

*Pursuant to the California Code of Regulations (CCR), title 20, section 1104(e), any person may make an oral comment on any agenda item. To ensure the orderly conduct of business, such comments will be limited to three minutes or less per person. Any person wishing to comment on information items or reports (non-voting items) shall speak during the public comment portion of the meeting and have three minutes or less to comment.*

Reported by:  
 Peter Petty

APPEARANCES (\*Present via Zoom)

Commissioners

David Hochschild, Chair  
Siva Gunda, Vice Chair  
Noemi Gallardo  
Andrew McAllister  
Patty Monahan

Staff Present:

Drew Bohan, Executive Director  
Linda Barrera, Chief Counsel  
Mona Badie, Public Advisor

Agenda Item

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Elizabeth Huber	5
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Guest Speakers:

Interested Parties:

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Rob Del Core, Symbio North American Corporation	6

Public Comment:

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b. International Council on Clean Transportation Inc.	
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a. Pursuant to Government Code Section 11126(e)(1), the CEC may adjourn to closed session with its legal counsel to discuss the following matter to which the CEC is a party:	
i. <i>Interlink Products International, Inc. v.            Xavier Becerra, Drew Bohan, Melissa Rae King            (United States District Court for the Eastern            District of California, Case No. 2:20-cv-02283)</i>	
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1 P R O C E E D I N G S

2 FEBRUARY 15, 2023

10:05 a.m.

3 (Start of Introductory Video.)

4 MS. MURIMI: Welcome to the California Energy  
5 Commission's Business Meeting. Zoom's closed-captioning  
6 feature has been enabled to make Energy Commission business  
7 meetings more accessible. Attendees can use this feature  
8 by clicking on the "Live Transcript" icon and then  
9 selecting either "Show Subtitle" or "View Full Transcript."  
10 Closed captioning can be stopped by closing out of the Live  
11 Transcript or selecting "Hide Subtitle." Those  
12 participating solely by phone do not have the option for  
13 closed captioning.

14 The Energy Commission will continue to post a  
15 recording of this business meeting on the Business Meeting  
16 webpage in addition to posting a transcript of this  
17 business meeting rendered by a professional court reporter  
18 in the docket system on the business meeting webpage.

19 To increase access to the California Energy  
20 Commission's proceedings, this meeting is being held in-  
21 person and is also available for remote participation.

22 The public can participate in the business  
23 meeting consistent with the instructions for remote  
24 participation found in the notice for this meeting, and as  
25 set forth on the agenda posted to the Energy Commission's

1 website. Pursuant to California Code of Regulations Title  
2 20, section 1104(e) any person may make oral comments on  
3 any agenda item.

4           Once the public comment period begins, to  
5 indicate you would like to give a comment in-person please  
6 use the QR codes shown in the room and fill out the form.

7           For remote participants, please raise your hand  
8 by clicking on the "Raise Hand" icon at the bottom of your  
9 screen. If you are joining by phone press \*9 to raise your  
10 hand and \*6 to unmute.

11           To ensure the orderly and fair conduct of  
12 business, public comments will be limited to three minutes  
13 or less per person for each agenda item voted on today.

14           Any person wishing to comment on information  
15 items or reports, which are non-voting items, shall reserve  
16 their comment for the general public comment portion of the  
17 meeting and shall have a total of three minutes or less to  
18 state all remaining comments. After the Public Advisor  
19 calls on you to speak, spell your name and state your  
20 affiliation, if any.

21           Welcome to the California Energy Commission's  
22 business meeting. The meeting will now begin.

23           (End of Introductory Video.)

24           CHAIR HOCHSCHILD: Good morning, friends. I'm  
25 David Hochschild, Chair of the Energy Commission. Today is



1 February 15. I call this meeting me this meeting to order.  
2 Joining me are, Vice Chair Gunda, Commissioner McAllister,  
3 Commissioner Monahan, and our newest Commissioner,  
4 Commissioner Gallardo. I will say more about that in a  
5 moment.

6 We do have a quorum. And let's begin with the  
7 Pledge of Allegiance led by Commissioner Gallardo. Thank  
8 you.

9 COMMISSIONER GALLARDO: Please stand, put your  
10 hand over your chest.

11 (Whereupon the Pledge of Allegiance was recited.)

12 CHAIR HOCHSCHILD: Thank you, Commissioner. On  
13 the advice of our Chief Counsel, what we're going to do  
14 going forward, is move the general public comment which had  
15 been at the end of our agenda to the beginning of our  
16 agenda. This is not for items for which we're going to be  
17 voting, this is for nonvoting items on the agenda. So  
18 we'll go ahead and take public comment at this time.

19 Is that slide up?

20 MS. BADIE: Thank you. Good morning and welcome.  
21 This is Mona Badie, the Energy Commission's Public Advisor.  
22 The Commission welcomes public comment at its business  
23 meetings. There'll be multiple opportunities for public  
24 comment today. As the Chair said, this initial comment  
25 period is for any informational or nonvoting items on the

1 agenda. If you want to comment on a voting item, we ask  
2 that you wait for the dedicated public comment period for  
3 that item. And there will be another public comment period  
4 at the end of the agenda, as well today.

5 Now for the instructions on how to notify us if  
6 you would like to make a comment. At this time if you're  
7 in the room, please visit -- or please use the QR code.  
8 We've posted it on the side, and Alejandro is going to wave  
9 his hand so you can find him, to sign up to for the in-  
10 person comment.

11 And if you're on Zoom, please click "Raise Hand."  
12 It's a feature on your bottom of your screen. And do that  
13 now if you'd like to make a comment. If you're joining by  
14 phone, press \*9 to raise your hand.

15 Going to folks in the room we don't have anyone  
16 signed up for the in-room comment. And going now to Zoom  
17 we have John Reed. John Reed, I'm going to open your line.  
18 Please unmute on your end, spell your name, state any  
19 affiliation, and we welcome your comments.

20 MR. REED: John Reed, spelled J-O-H-N R-E-E-D.  
21 Well, to start us, can you can hear me?

22 MS. BADIE: Yeah.

23 MR. REED: Great. So just looking for some  
24 guidance and advice. I'm a California resident trying to  
25 help with offshore wind, specifically floating in the

1 constraints around infrastructure imports. And I've asked  
2 a few questions at the AB 525 meetings in the past and  
3 haven't gotten any response. I don't know if there's an  
4 expected period of when I should get a response from the  
5 people in charge of that or you know, raise my concern with  
6 somebody specific. So, it's more of a question than a  
7 comment.

8 CHAIR HOCHSCHILD: Sorry, you're looking for a  
9 response on, what is it, 525?

10 MR. REED: Yeah.

11 CHAIR HOCHSCHILD: So let's have the Public  
12 Advisor follow up with you on that. There's a lot  
13 happening in that area. Thank you for that comment.

14 MS. BADIE: Thank you, John. We'll follow up  
15 with you. Thank you.

16 And that was the only public commenter online.  
17 So back to you, Chair. Oh, excuse me, I'm sorry. There is  
18 one comment that we received in writing that I will read  
19 into the record. It's from Mr. Steve Uhler. It is for  
20 Item 4. That's an informational item. The comment reads,

21 "Commissioners, please ask about data validation  
22 methods and user feedback. While I was using the Tableau  
23 system, I have identified missing incorrect data. I  
24 emailed my findings to the Commission and gotten no  
25 response. Please ensure all data accuracy issues are

1 addressed by Commission staff to ensure the public will  
2 trust the available reports Tableau displays.”

3 That is the end of the public comment. Thank  
4 you.

5 CHAIR HOCHSCHILD: All right. Well, thank you.

6 So I wanted to spend a minute formally welcoming  
7 our newest Commissioner, Noemi Gallardo, who comes to the  
8 Energy Commission with really a remarkable and  
9 distinguished career, both here at the Commission where she  
10 served for three years as the Governor's Appointee Public  
11 Advisor, starting in 2019. And then this past year as my  
12 Chief of Staff where she did -- really everything she  
13 touched got better. And I think that's kind of a common  
14 theme across her career. She brings incredible heart and  
15 conscience and work ethic and diligence and imagination. I  
16 could not imagine a better commissioner for the Governor to  
17 have appointed. And we're beyond thrilled to welcome you.

18 I want to also just highlight the diversity of  
19 experiences you're bringing as a native of California,  
20 Ventura County. The daughter of Mexican immigrants, and  
21 the first Latina to ever be appointed to the Energy  
22 Commission, with deep experience as well in environmental  
23 justice through Greenlining, and philanthropy, and in the  
24 clean energy industry. We are just so blessed and  
25 fortunate to have you in this role. And we just swore you

11

1 in a few minutes ago, but I would like to just provide the  
2 opportunity for any additional comments from my colleagues  
3 before we ask you to share a few words.

4 Commissioner McCallister.

5 COMMISSIONER MCALLISTER: Well, just briefly. I  
6 mean, we're just really looking forward to having you on  
7 the dais. This is just a huge breath of fresh air, and  
8 just incredibly well deserved.

9 And the Governor -- when they called around to  
10 give us the heads up what was going to happen, you know,  
11 earlier that day when they appointed you I was like, "of  
12 course" hooray. You know, so sometimes the most obvious  
13 thing to do is right in front of you. And you may not  
14 realize it, but it just made all the sense in the world.  
15 And you're just going to bring so much to round out the  
16 Commission and just fill in any gaps that we might have  
17 had.

18 I think it's just a real beautiful choice and  
19 it's going to help us do the public's work, do the people  
20 of California's work that much more effectively. And I  
21 just think bringing your moral clarity, and your just kind  
22 of your heart, as the Chair said, and just your broad sort  
23 of engagement skills, just that facilitative quality that  
24 you have that I think is very unique, among many unique  
25 qualities. I mean, I'm really looking forward to

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1 collaborating, working and getting things done so welcome.

2 VICE CHAIR GUNDA: Yeah. Chair, thank you for  
3 the opportunity to comment.

4 I think Noemi, I'm going to refer to as Noemi for  
5 a second, but after that it's going to be Commissioner  
6 Sister Gallardo. (Laughter.) For now, I just -- I met you  
7 as a part of the SB 100 process. And, you know, when we  
8 started the SB 100 process the question we were trying to  
9 answer was is the goal achievable. But one of the things  
10 we fundamentally did not do is the voice of the  
11 communities. We were thinking about capacity expansion  
12 modeling, and PLEXOS and runs and demand scenarios. And  
13 one of the meetings you joined, the first meetings you  
14 joined, it was like, "Where is the community voice in  
15 here?"

16 And I think from that day onwards you have been a  
17 partner, a mentor, a guide in ensuring that everything that  
18 I did at the Commission I was able to think more  
19 holistically, especially the lives and the impacts on the  
20 lives of the Californians. And especially those that have  
21 been marginalized for decades in California. So more than  
22 anything this job requires camaraderie, collaboration, and  
23 a clarity of purpose. And being able to learn from each  
24 other without ego, and without pride. And you enable that.  
25 You enable a deep conversation to happen and you facilitate

1 with kindness. And I just am really blessed as a person in  
2 this job having you on the dais, but just as a Californian  
3 for your leadership. You know, I adore you as a person and  
4 looking forward to working with you in this role and  
5 supporting you to be your best, like we all are. Thank  
6 you.

7 CHAIR HOCHSCHILD: Thank you, Commissioner.  
8 Commissioner Monahan.

9 COMMISSIONER MONAHAN: Well, I was thinking about  
10 how you balance heart and mind and that in the energy  
11 space, I think it's fair to say that -- and the history of  
12 the Energy Commission has been on the mind. And I don't  
13 mean -- I actually think that means that we miss out often  
14 about what the community needs are and how we meet those  
15 needs as we zero out carbon and pollution from our energy  
16 systems. And that attention to listening to communities  
17 and taking that information in and then making it  
18 actionable with that sort of more analytical piece of your  
19 brain is really so powerful. And that you're going to  
20 bring that to us in a bigger way. And I just really look  
21 forward to having you as a partner, and learning from you  
22 and growing personally and as a Commission, in terms of  
23 being just more mindful about our community engagement with  
24 our still massive responsibilities on the energy system  
25 side.

1           And so I just really value that in you and  
2 welcome you and what you're going to bring to us and to the  
3 Commission.

4           CHAIR HOCHSCHILD: Well said.

5           And just before I ask you to make a few remarks,  
6 I just wanted to add, working really, really closely with  
7 you, especially this last year has been dazzling to see how  
8 many levels of skill you bring. Because you do have  
9 incredible people skills, and community building, and the  
10 ability to bring people together and bring out the best  
11 qualities. But then you're an attorney and Master of  
12 Public Policy, and you have very, very strong knowledge and  
13 deep insights into the sector. And I -- you're complete.  
14 And so -- and I just -- I'm feeling incredibly fortunate.

15           I did want to say that Commissioner Gallardo is  
16 going to be filling the attorney seat at the Energy  
17 Commission. And in that capacity, she'll be the lead for  
18 siting matters going forward. I've also asked her, and  
19 she's agreed to take on being the Lead on Lithium Valley  
20 for the Energy Commission. I want to just stress how huge  
21 this task is.

22           So, we have at this point, over \$20 billion of  
23 private capital that is prepared to move into lithium  
24 development, sustainable lithium development here in  
25 California. It's the largest geothermal lithium brine



1 reserve in the world, and the chance to do development in a  
2 community that desperately needs jobs and clean air. And  
3 really to build a new model for how we scale energy that's  
4 different and better than what's happened with fossil fuel  
5 extraction in the past. And we are trying to build a world  
6 beyond fossil fuels. And we have to not repeat the  
7 mistakes that were made in the past.

8           And so this example of the Lithium Valley  
9 Commission having tribes and community groups and lithium  
10 developers and local government all come together is the  
11 start of that, but not the end. And so this is a really  
12 big project. And it ties together beautifully with what  
13 we're working on here, which is so much around  
14 electrification, particularly electrification of  
15 transportation. And you know, we're adding 1,000 electric  
16 vehicles a day in California. We want that lithium in  
17 those batteries to come from California and be done in a  
18 way that lifts up that community.

19           And so that's going to be a major task. I think  
20 I couldn't think of anyone better to lead it. And we're  
21 all here in support of you. And just on our several visits  
22 down there together I've just continued to be amazed at  
23 your ability to forge bonds, identify priorities, and bring  
24 people together. And I know that our enthusiasm here is  
25 really echoed by our colleagues in the Legislature, with

1 whom I'd been in touch about your appointment and so many  
2 community groups. And so that's really exciting. She's  
3 also going to be the Lead for Equity for the Energy  
4 Commission, audits and a few other things. So you've got a  
5 full plate coming in. So with that I welcome a few words  
6 from you.

7           COMMISSIONER GALLARDO: Well, thank you so much  
8 everyone. I am very humbled by all of what you just said.  
9 I do recognize what an honor it is to be up here with all  
10 of you. And I have told some folks that they -- it feels  
11 awkward to talk about the dais and that separation, you  
12 know, of us and the people. And at the same time we need  
13 that leadership to be able to move us forward on our  
14 mission, to accomplish in the 100 percent clean energy  
15 future for all. And so I realize it's a major  
16 responsibility. And I'm really excited that I get to do  
17 that with all of you. You have been great leaders. I  
18 admire you for all that you've done. You've been great  
19 friends and I am looking forward to continuing to grow  
20 those relationships. And also just work with you as a  
21 partner to contribute whatever I can in any way I can to  
22 ensure we accomplish our mission.

23           And to the staff and executive leadership as  
24 well, I want to thank you for welcoming me to the Energy  
25 Commission from my first day as Public Advisor. And

1 working shoulder to shoulder with you has been an honor as  
2 well. And I'm looking forward to continuing to do that.  
3 Looking at my friend Drew over there. And Linda, who have  
4 been wonderful to me and just looking forward to continuing  
5 that work.

6 I also wanted to do a few thank yous on a  
7 personal level. First to my partner, Emilio Camacho, who's  
8 here with us today. He's also part of the Energy  
9 Commission family way back when. So he's been a motivation  
10 for me. He's been an unconditional system of support. We  
11 were at the airport yesterday spending Valentine's Day  
12 facing some weather challenges, trying to get back to  
13 California. We weren't going to miss today and our first  
14 business meeting, so thank you, Emilio, for being patient  
15 with me and powering through.

16 Also, to my parents. They are who made me what I  
17 am and who got me here. They sacrificed tremendously being  
18 immigrants from Mexico, coming here to the United States  
19 with nothing and hoping to achieve that American dream.  
20 And they have and all they wanted to do is ensure that  
21 their kids could have an education and be able to choose a  
22 job of their preference, to have an opportunity for a  
23 career. And, you know, here I am doing that. And I want  
24 to thank them for leading me here. And they are who I  
25 think about when I have any chance to influence policy or

1 to work on plans. Thinking about them facing language  
2 barriers, facing hardship, being low income, hardships also  
3 being of mixed immigration status. So I'm hoping that I  
4 can continue as a Commissioner thinking about them and  
5 influencing our policies that way to improve things for  
6 everyone.

7           And then also my kids, Ivan and Cholito.  
8 (phonetic) They keep me motivated to pursue all this work,  
9 because it is for them and for the generations after them  
10 that we are trying to do this. And that's what I always  
11 try to remember, it's about humans at the end of the day.  
12 And especially these little humans who I really care about  
13 and am just excited for them to see their mom making  
14 history as the first Latina to be a Commissioner at the  
15 Energy Commission. And hoping that they see that these  
16 opportunities are available to them and other kids like  
17 them, you know, kids of color and kids who come from low  
18 income and disadvantaged communities.

19           And then finally I wanted to thank Governor  
20 Newsom and Chair Hochschild for enabling me to have these  
21 incredible appointments first as Public Advisor, now as a  
22 Commissioner. It still feels surreal, but I'm going to do  
23 all I can to make you proud. And make sure that our state,  
24 my state, is as strong as it can be.

25           And I told people earlier that this is, you know,

1 me achieving my California dream. You know, born, raised,  
2 educated, trained in the law here in California. And I'm  
3 just really excited, I can use all of those skills, all of  
4 that education. All of my passion to put it forward here  
5 with all of you trying to get to our 100 percent clean  
6 energy future and make this world a better place starting  
7 with our state.

8           So, I don't want to get too sentimental here,  
9 because I'm starting to feel it. But I wanted to end with  
10 some words of encouragement from Latino leaders Cesar  
11 Chavez and Dolores Huerta, and also President Barack Obama  
12 who said them in English. "Si se puede," "Yes we can,"  
13 continue moving forward that way. So I appreciate it.  
14 Thank you for giving me that time.

15           CHAIR HOCHSCHILD: Wonderful, thank you.  
16 (Applause.) That was beautiful.

17           I also want to say first of all you need to know  
18 you deserve to be here. You are here, because you've  
19 earned it. And I believe you're probably the most prepared  
20 new Commissioner. The knowledge you have of the agency  
21 coming in is second to none, so we're all really excited to  
22 partner with you on work going forward.

23           COMMISSIONER GALLARDO: (Overlapping) Thank you,  
24 I appreciate it.

25           CHAIR HOCHSCHILD: With that I want to highlight

1 that at today's Commission meeting we will be seeking to  
2 approve close to \$40 million in new investments,  
3 contributing to California's economic recovery. And I  
4 would just welcome if there's any other announcements folks  
5 wanted to make, particularly on the agenda, otherwise we  
6 can take it up at Commissioner Updates. Okay.

7           We'll turn now to the Consent Calendar. We'll  
8 take up item 3b first and then item 3a and 3c through h  
9 after. For item 3b, the International Council on Clean  
10 Transportation, I believe there's a recusal on this item.

11           COMMISSIONER MONAHAN: Yes, that's me. So on  
12 item 2b (sic) I will recuse myself from any discussion,  
13 consideration, and vote of this proposed resolution  
14 approving Agreement 600-22-005 with the International  
15 Council on Clean Transportation for a one-year membership  
16 in the International Zero Emission Vehicle Alliance.

17           I currently serve as an advisor to the Board of  
18 the International Council on Clean Transportation. And in  
19 that role I do not make governance decisions on behalf of  
20 the Council. Additionally, I do not receive any  
21 compensation in any form, including reimbursements or per  
22 diem expenses. So there's no financial interest in which  
23 there would be a conflict of interest under the Political  
24 Reform Act, the Warren Alquist Act or Government Code 1090.  
25 However, in an abundance of caution, I will recuse myself

21

1 to avoid any perception of a conflict of interest or bias.

2 I am now going to step away from my seat. I'm  
3 going to just leave the video on and I'll return when the  
4 Public Advisor tells me to come back.

5 CHAIR HOCHSCHILD: Thank you, Commissioner.

6 Mona, do we have any public comment on Item 3b?

7 MS. BADIE: I don't see anyone in the room. If  
8 anyone is online, please raise your hand. If you are on  
9 phone, you will press \*9 to raise your hand. This is the  
10 comment period for Item 3b. I don't see any raised hands,  
11 and we don't have anyone who's signed up in the room.  
12 Chair, back to you.

13 CHAIR HOCHSCHILD: Okay, unless there's any  
14 Commissioner discussion, Commissioner Gallardo, would you  
15 like to make a motion for Item 3b?

16 COMMISSIONER GALLARDO: I move to approve item  
17 3b.

18 CHAIR HOCHSCHILD: Is there a second?

19 VICE CHAIR GUNDA: Second item 3b.

20 CHAIR HOCHSCHILD: Second by Vice Chair Gunda.

21 All in favor say aye.

22 Commissioner Gallardo.

23 COMMISSIONER GALLARDO: Aye.

24 CHAIR HOCHSCHILD: Vice Chair Gunda.

25 VICE CHAIR GUNDA: Aye.

1 CHAIR HOCHSCHILD: Commissioner McAllister.

2 COMMISSIONER MCALLISTER: Aye.

3 CHAIR HOCHSCHILD: And I vote aye, as well. Item  
4 3b passes 4-0.

5 We'll turn now -- if we can welcome Commissioner  
6 Monahan back to the room. We'll turn now to items 3a and  
7 3c through h. Do we have public comment on those items?

8 MS. BADIE: So right now, is the public comment  
9 period for 3c and -- 3a and 3c through h. If you are in  
10 the room, please visit the QR code table. And we have --  
11 and now turn my attention to the Zoom. We have one hand  
12 up, Scarlett Goodrich. I'm going to unmute your line.  
13 Please unmute on your end, spell your name and any  
14 affiliation, please make your comment.

15 MS. GOODRICH: Hi, there. My name is Charlotte  
16 Goodrich, spelled C-H-A-R-L-O-T-T-E G-O-O-D-R-I-C-H. I'm  
17 the Grant Manager for the CARTS grants at ChargePoint. And  
18 I just wanted to say that ChargePoint is very grateful to  
19 be the recipient of the CARTS grants. And we're really  
20 looking forward to working with CEC to install charging  
21 stations for on demand transportation services along high  
22 traffic areas, particularly those in disadvantaged and low-  
23 income communities. Thank you.

24 MS. BADIE: Thank you.

25 And that is the only comment for the rest of Item



1 c or Item 3, excuse me. Back to you, Chair.

2 CHAIR HOCHSCHILD: Okay. Commissioner Monahan,  
3 would you be willing to move items 3a and 3c through h?

4 COMMISSIONER MONAHAN: I move to approve items 3a  
5 and 3c through h.

6 CHAIR HOCHSCHILD: Vice Chair Gunda, would you be  
7 willing to second?

8 VICE CHAIR GUNDA: I second the motion.

9 CHAIR HOCHSCHILD: Okay. All in favor say aye.  
10 Commissioner Monahan.

11 COMMISSIONER MONAHAN: Aye.

12 CHAIR HOCHSCHILD: Vice Chair Gunda.

13 VICE CHAIR GUNDA: Aye.

14 CHAIR HOCHSCHILD: Commissioner McAllister.

15 COMMISSIONER MCALLISTER: Aye.

16 CHAIR HOCHSCHILD: Commissioner Gallardo.

17 COMMISSIONER GALLARDO: Aye.

18 CHAIR HOCHSCHILD: And I vote aye as well. Those  
19 items pass unanimously. We'll turn now to Item 4,  
20 Information Item - Update on Data Visualization and  
21 Exploration Tools. Welcome to Jason Harville.

22 MR. HARVILLE: Great, thank you all. All right,  
23 good morning Chair, Vice Chair, Commissioners, especially  
24 Commissioner Gallardo, congratulations. Good morning Chair  
25 and Commissioners. I am Jason Harville, our Director of

1 Energy Data and Analytics. I lead the Energy Data and  
2 Analytics Office, which is responsible for enterprise-level  
3 data infrastructure, management, and governance. I am here  
4 this morning to provide an update on our data modernization  
5 efforts. Specifically, on the implementation of new data  
6 visualization and exploration tools.

7           Implementing these tools will provide many  
8 benefits to Californian's. Those who want to explore and  
9 use our data can now do so through the tools in our  
10 website. They can also download data directly from these  
11 tools without needing to make data request to the  
12 Commission, and they can use the tools to filter and parse  
13 the data prior to downloading.

14           This gives the public fast, interactive, and  
15 detailed access to Energy Commission data without  
16 additional time or work from Energy Commission staff. Next  
17 slide.

18           When I last updated you in October, I showed you  
19 this slide on Tableau. To refresh your memories, Tableau  
20 is a tool for creating interactive data visualizations that  
21 can be hosted and used through a web browser. These  
22 visualizations allow users to explore data visually in many  
23 different ways. For example, the visualization you see to  
24 the right is from our light-duty zero emission vehicles  
25 dashboard. It shows statewide data on all vehicle types by

25

1 default, but a user can select specific counties, or filter  
2 the data down by vehicle type, or choose from a full number  
3 of other options to visualize whichever subset of the data  
4 they are interested in. And they can then download that  
5 subset of data for their own purposes, leading to the  
6 benefits I just described.

7 Tableau is the primary visualization tool we are  
8 utilizing in our data modernization efforts and is the  
9 focus of my update today. Next slide, please.

10 But technology alone isn't going to get us there.  
11 We also need a strategy for providing consistently high  
12 quality data products and effective data communication,  
13 which you see here.

14 At the core of our strategy is a consistent and  
15 accessible design that doesn't compromise data quality, or  
16 the quality of the data products. Website accessibility  
17 and effective data communication are often at odds.  
18 Sometimes it just isn't possible to make a visualization  
19 fully accessible without compromising the quality and  
20 clarity of that visualization. So to address this  
21 challenge we have created a standardized, fully accessible  
22 webpage format for all our visualizations to use, which you  
23 see on the right. These pages provide everything needed to  
24 understand the story we are telling with our data and to  
25 access the underlying data itself, without the

1 visualization data needed.

2           This makes the entire product accessible,  
3 (indiscernible). And provides a consistent and complete  
4 user experience, while also freeing our staff up to ensure  
5 that the visualizations themselves communicate our story as  
6 effectively as possible. So staff can meet the spirit of  
7 accessibility with individualization itself as much as  
8 possible, but also ensure that we are communicating our  
9 data effectively to the broader product.

10           To aid staff in this, we have created a style  
11 guide with visualization standards and best practices, and  
12 a process to guide our staff all the way from the  
13 conception of a new visualization project through  
14 publishing it on the website. And at the end of the day  
15 our goal is that Energy Commission data visualization  
16 should look and feel like an Energy Commission  
17 visualization. It should feel distinct and it should give  
18 the public a consistent and high-quality experience when  
19 they interact with our data. Next slide, please.

20           In October, I told you that we would soon be  
21 rolling out access to Tableau for the entire organization.  
22 In December, we accomplished that and we now have more than  
23 400 staff can now view, create, and collaborate in Tableau,  
24 and we can provide access to anyone else who needs it. So  
25 the whole organization has access to this (indiscernible)

27

1 now.

2           And to date, we already have 15 visualizations  
3 that are live on our website. Two more about to be  
4 published and a number of others in development.

5           Each visualization has its own page, like I just  
6 described. But we also have a new centralized webpage,  
7 which you can see on the right of the slide there. And it  
8 compiles links to all of our data exploration tools,  
9 organized by subject matter. So as we publish more tools,  
10 they will also be added here. And this compilation page is  
11 reachable from our home page directly from the main  
12 navigation bar. Next slide.

13           And we are certainly going to be adding more.  
14 The 15 we have now is the tip of the iceberg, and I  
15 anticipate that we have an awful lot of pent-up demand  
16 within the organization. Vice Chair Gunda set a goal for  
17 each Division to create 5 visualizations this year, and I  
18 expect us to meet and in some cases exceed that goal.

19           To support this work, we will be implementing  
20 formal staff training in Tableau. And also hiring an in-  
21 house visualization expert to support staff and support  
22 that development process that I mentioned earlier.

23           And lastly, I hope to see us make our first  
24 progress in reducing the amount of resources we spend on  
25 data requests. To give you a point of reference, Energy

1 Assessments Division alone fielded over 250 data requests -  
2 - just that division -- last year. I want to see that  
3 burden reduced this year, and as we develop more and more  
4 visualizations to see the burden of data requests  
5 throughout the entire organization reduced further in the  
6 years to come. Next slide, please.

7           And finally, I would like to give you a quick  
8 update you all on our recent data modernization workshop.  
9 When I spoke to you in October, we were planning to host  
10 this workshop in November. It ended up getting moved to  
11 January, and the public comments ended on just the 3rd of  
12 this month, so we're working through those public comments.  
13 But I can provide a high-level summary today.

14           The workshop focused on two panel discussions,  
15 discussing how the Energy Commission can provide the most  
16 value to the public by sharing data analysis. And the  
17 methods and technologies we could utilize in that effort.  
18 Approximately 150 members of the public attended, and the  
19 clearest theme that emerged from panel discussions and  
20 public comments is the importance of, and the need for,  
21 data to guide our decisions and understanding as we move to  
22 a clean energy future.

23           The Energy Commission is uniquely positioned to  
24 facilitate the flow of more and better data to the public,  
25 stakeholders, and our partners. I believe we have the

1 capability to deliver an enormous amount of value to the  
2 public in that role, and we are working hard to realize  
3 that vision. Tableau will be an important tool in those  
4 efforts, and I'm looking forward to updating you again on  
5 our progress in the near future. Thank you.

6 CHAIR HOCHSCHILD: Thank you, Jason.

7 Let's go to Commissioner comments or any  
8 questions, starting with Vice Chair Gunda.

9 VICE CHAIR GUNDA: Yeah, thank you, Chair. I  
10 just want to take a minute to capture a few of my thoughts  
11 and also mentioning specific background on this issue. I  
12 think I want to start with the point that Jason made during  
13 his presentation. The inception for at least EAD's  
14 perspective, data modernization and public assets, was  
15 really predicated on the number of resources we were  
16 spending on just responding to media requests.

17 So there was a work product that was done. Judy  
18 Carter, the Division's Executive Assistant, and I tried to  
19 go look at all the data requests we got. And we tried to  
20 look at compartmentalizing them into buckets under the  
21 leadership of Commissioner McAllister, when I was in the in  
22 the Division, to think about what kind of request do we  
23 get? And most of them are repeat requests. And oftentimes  
24 we didn't have, you know, quick edits to be made, to be  
25 putting that information back out. And it would take days

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1 for the staff to enter (indiscernible).

2           So it's an incredible value in terms of being  
3 able to play the central role of being the California's  
4 data repository as a state agency. So I think it's  
5 important purpose of modernizing the data to at least do  
6 three levels of things, right.

7           So one, quick kind of informational updates on  
8 media. So if media or anybody who's interested can go to a  
9 dashboard and get 95 percent of their information that they  
10 need, and it's only incremental for the staff, that would  
11 be a win. And I think that's what Jason has really  
12 encapsulated in his vision of how to use staff resources  
13 for more creative work, and not as much time on just doing  
14 the basic data cleaning every day.

15           So Jason, I just want to commend you and your  
16 team for the incredible work you've been doing. This has  
17 been a long, long road. I remember when you first took on  
18 this role, I think two-and-a-half years ago if I remember  
19 correctly, maybe longer. Oh, three years ago, sorry. And  
20 you made a presentation in this room about the vision,  
21 about the -- one of the best presentations I've ever  
22 watched in data. You know, how the staff resources at the  
23 CEC could be utilized for creative and more answering  
24 difficult queries that are not easily menu programmable in  
25 a dashboard, and then how we can use this setup. So I know

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1 given the state processes sometimes it takes a long time to  
2 get things rolling, but I'm just incredibly grateful and  
3 thankful to you.

4           And I would not do justice if I did not recognize  
5 Commissioner McAllister's leadership and vision on this.  
6 All the way back 10 years ago when I was working at UC  
7 Davis, every time he came to UC Davis to give a talk, he  
8 would talk about data and the importance of data. So  
9 Commissioner McAllister, this to me, I think we're in that  
10 hockey stick mode of the inflection in what we can do at  
11 CEC. And I think it's really 10, 15 years of culmination  
12 of your vision here. So thank you for both being a partner  
13 on this and having me work with you on these issues.

14           I also want to thank a lot of our public who have  
15 been weighing in, both on the planning (indiscernible)  
16 ideas. But just the data modernization, the kinds of  
17 comments we're getting, you know. I know, there was a  
18 public comment from Mr. Uhler earlier today. And I think,  
19 you know, people like him who show up on a regular basis to  
20 take the time to provide guidance on their own time is  
21 extremely helpful. And to the extent that we could have  
22 them really be collaborative with the staff is a useful  
23 purpose. I just want to commend everybody that has been a  
24 part of the story to move things forward at a 30,000 foot  
25 level.

1           There's a lot more work to be done. And Jason,  
2 you have my 100 percent confidence that you will deliver  
3 for not just the CEC, for the state. And thank you for  
4 highlighting the goal of at least five visualizations per  
5 division. I think the way -- the reason we set it up is we  
6 really want to open up the opportunity for the staff and  
7 say go. I mean, the kinds of visualizations that staff are  
8 coming with are just amazing. We just want to make it make  
9 it an opportunity for them to just play in the sandbox and  
10 create new things.

11           And finally, to Drew. Drew, he's not visible.  
12 But you know, anytime something doesn't work we go to Drew  
13 and say, "Drew, make it happen." And he's always there in  
14 his steadfast, kind, thoughtful manner of moving things  
15 forward in a collaborative fashion. So Drew, thank you for  
16 your incredible leadership working with Jason to make this  
17 happen.

18           So that's all I have. I'm looking forward to it,  
19 and we'll work with you.

20           CHAIR HOCHSCHILD: Great.

21           Commissioner McAllister?

22           COMMISSIONER MCALLISTER: Thank you so much, Vice  
23 Chair Gunda. And I agree, this partnership has really only  
24 just begun. I mean we're -- all of us are going to be just  
25 availing ourselves of amazing cutting edge modern

1 resources, modern day resources, that have really permeated  
2 much of our economy. But have really -- I think now we're  
3 figuring out how to get them into state agencies and sort  
4 of the state workflow, and it's just going to be incredibly  
5 powerful.

6           So I do -- maybe just a little bit of history,  
7 and this is for Drew maybe more than anybody. But about  
8 roughly, maybe nine or maybe even ten years ago there was a  
9 meeting with former Chair Weisenmiller, and we were sort of  
10 figuring out what we thought the art of the possible was on  
11 data. Because we just realized that we needed a  
12 transformation and that the opportunity was there. Really  
13 we had the authority and we wanted to use it and apply it  
14 in effective ways to really help the goal of the Commission  
15 and better the state. And that meeting got a little tense,  
16 because the ambition that we were laying out was really  
17 large.

18           And I think we kind of manifested that there was  
19 -- that we had faith in staff. And I think, Drew, you just  
20 really took that on. You know, heard the kind of the  
21 vision and really carried it forward. And, you know, all  
22 of what we're talking about today just rolls right off of  
23 your effectiveness, right straight from that. And  
24 including hiring Jason and then supporting Jason and the  
25 team. And just really dedicating the resources to this,

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1 because it was a big, big lift.

2           And visions take a little while to percolate.

3 And especially in a bureaucracy, we're just -- state  
4 bureaucracy -- people tend to think that they sort of  
5 minimize. There's sort of a tendency to sort of say oh  
6 gosh that seems hard and maybe we can find an easier way to  
7 do it. And there really was no easy way to do this. And  
8 so I'm looking at Jason here too. You know, we updated our  
9 data reg several times. We just took dozens of just  
10 stepwise, serial measures to move forward on this and make  
11 it happen.

12           And so to Vice Chair Gunda's point, now we  
13 actually have this resource that can flower. And I think  
14 the amount of creativity that we -- that's already being  
15 unleashed in staff is just immense, it's only going to  
16 grow. And so, it's super exciting. And Tableau is a  
17 wonderful little start.

18           And just kudos for you, Jason, to -- for having  
19 gotten all those puzzle pieces in place to get the majority  
20 of our staff the tools that they need to do great work and  
21 get around. You know, not work on the sort of drudgery of  
22 data organization and cleaning, but actually do the  
23 exciting part, which is the analysis and conceptualization  
24 and visualization of all the amazing data we have access  
25 to. So really an exciting, sort of -- it's more than a

1 moment, I think it's a process.

2           The nice thing about moving into the digital  
3 economy is that it only gets better. You know, everything  
4 that you do is a floor that others can build on. And so  
5 those algorithms, those methodologies, those visualizations  
6 are good to start with, and inspire a lot of collaboration  
7 and only get better. It's like a ratchet forward, and it  
8 really doesn't go back.

9           And so as we get more and more data for  
10 longitudinal analysis, as we figure out how to delve into  
11 some pretty complex areas, like how to sort of automate  
12 some of the load shaping that we want to do for grid  
13 management, for building decarb, for transportation I think  
14 there's just a ton of opportunity. And none of us can  
15 really even conceive of what staff is going to come up  
16 with, and it's just super exciting. So I'm really looking  
17 forward to that.

18           And this -- I guess I'll just -- a couple more  
19 points. You know, the Energy Commission is -- we're the  
20 state's energy policy and planning agency. And to some of  
21 the comments before, I think -- Commissioner Monahan, you  
22 know you said we tended to sort of focus on our head and  
23 sort of people who used to see the Energy Commission more  
24 as an ivory tower a little bit. And I think we're past  
25 that brand. I think our brand is much more engaged. And

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1 Commissioner Gallardo is going to help us get even better  
2 there.

3           But I think this -- our analytical chops as an  
4 agency, are going to support all of these broader  
5 transitions and transformations that we're trying to do  
6 with actual people in California, to benefit Californians.  
7 And I think having the task right in front of them and the  
8 tools accessible to do it is going to help staff figure out  
9 how to do that much, much more effectively. So it really  
10 is just the culmination I think potentially, of the  
11 original vision of the Warren Ahlquist Act. To have an  
12 agency that helps guide policy in a very strategic and  
13 well-informed way. That we've always done well at that.  
14 But I think now this will just take it to a whole other  
15 level, so really looking forward to collaborating.

16           I have to acknowledge also just the utilities. I  
17 know you've worked hard, Jason, with all of the major  
18 utilities across the state to create the pipeline that  
19 seamlessly gathers all this data. We're collecting it  
20 quarterly. That'll probably evolve over time, as our needs  
21 evolve. And as the possibilities unfold, really in front  
22 of us. But I think that's super exciting, and I want to  
23 just acknowledge that.

24           The final thing is that part -- the first big  
25 step here is get our own staff the tools they need. And so

1 that centers around EAD, because that's kind of where our  
2 analytical home is in large part. But every division is  
3 going to be able to really get a lot of juice out of the  
4 squeeze here I think when they bring it -- get up to speed  
5 and increasingly become more and more fluent in sort of  
6 analytical techniques. And I know we need to get some  
7 training in front of them as needed to help evolve in that  
8 direction as well.

9           The next step is to form with the Chief Counsel's  
10 able assistance, the environment in which we can bring on  
11 contractors to access -- strategically access pieces of the  
12 data lake to be able to do analysis on a contracting basis.  
13 Both from the Energy Commission and also from exterior,  
14 sort of in a public facing way to be able to protect the  
15 data appropriately. But also have say local governments  
16 and others have access to kind of fairly sophisticated  
17 analysis that we might want not want to do in-house. We  
18 might want to have them sort of farm it out to somebody who  
19 has been fully vetted and under an NDA, right.

20           So all this is kind of the nuts and bolts of this  
21 infrastructure that we're building. And we have an  
22 incredibly solid foundation. And I think with each new  
23 level we're just going to see much, much broader horizons.  
24 And I think it's just incredibly exciting.

25           I've to thank Erik Lyon, Hilary Poore as well,

1 for leading -- being sort of visionaries in the staff level  
2 for this. Mitch Prevost, as well at Jason's office. And  
3 Jane Lee and Michael Moreyda from ITSP. So really they've  
4 helped enable all of this development that Jason's talked  
5 about.

6           So anyway, I've gone on too long. But you can  
7 tell I'm super excited about this. And I know Vice Chair  
8 Gunda is as well. You know, Rob Oglesby used to say -  
9 former executive director -- used to say that just for  
10 doing normal stuff you really deserve -- in a bureaucracy  
11 and state service -- you kind of deserve extra credit,  
12 right.

13           And this is not just normal stuff, this is  
14 actually this deserve extra double super plus credit.  
15 Because this is this is a real innovation at a state agency  
16 that is going to really change lives in a very concrete  
17 way. And so I'm just really proud of the whole team. You  
18 know, Jason looking at you here on the screen. But really  
19 across the Commission, the sort of embracing of this  
20 effort. And I kind of think, as the light bulbs went off  
21 and people sort of realized, wow I think it's really going  
22 to actually help us to get stuff done, people would just  
23 run with it. Christine Collopy, many, many others, have  
24 just really helped enable this evolution, this move  
25 forward, so thanks to all of you.



1           You know who you are, and looking forward to  
2 really getting a lot out of these resources and moving  
3 forward, just stimulating lots of creativity. So that's  
4 it.

5           CHAIR HOCHSCHILD: You had an additional comment  
6 you wanted to make?

7           VICE CHAIR GUNDA: Yeah, thanks, Chair.

8           So just going with this, Jason, given how  
9 important and central the data visualization portion of our  
10 work is going to be, especially through the transition,  
11 right. So most of the questions we get today are kind of  
12 from policymakers and the public understanding how best are  
13 we moving forward? Like trends and all sorts of stuff,  
14 which dashboards can provide. So I would like to propose  
15 that we highlight whatever -- it's a competition. I know  
16 you want to do it as a way of voting. Let's just try to  
17 celebrate the best dashboard every year that's created in  
18 the Commission. So I would like to ask Drew and you to  
19 work on how do we, you know, provide great visibility. So  
20 some of the best dashboards that we are creating in the  
21 Commission.

22           And also as a part of that let's -- I would put  
23 it to you again what the best forum for this would be.  
24 It's not necessarily a workshop, but maybe you want to  
25 convene a working group that's open to public. Where

1 you're meeting monthly, quarterly, whatever it is, a good  
2 cadence is, to just solicit ideas. And be real  
3 collaborators in this work rather than we're getting  
4 information just in a public comment, which is not  
5 necessarily a collaborative and bidirectional conversation  
6 in a public setting.

7           So I would encourage you to figure out a way to  
8 develop those venues for those who are really inspired to  
9 be a part of this and help the state move forward. Thank  
10 you.

11           CHAIR HOCHSCHILD: Great idea.

12           Any other -- Commissioner Monahan.

13           COMMISSIONER MONAHAN: I'm going to be super  
14 brief. But you know, as the biggest fan of the ZEV  
15 Dashboard that is -- and I was thinking when you said,  
16 Jason, oh we get all these requests from the public. And  
17 actually I'm now not going to -- well, sometimes I still go  
18 to the team. But mostly I go to the ZEV Dashboard. I'm on  
19 there multiple times a month doing queries, and it's just  
20 amazing. So I just want to say like anything we can do to  
21 get more information out there like the ZEV Dashboard,  
22 let's do it.

23           And I will also, just one last thing about the  
24 ZEV Dashboard, I think we get more requests from the  
25 Governor's Office too. Like when is that data -- when's it

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1 coming? So, it's not just to us. It's not just the  
2 public. But it's actually the Governor.

3 CHAIR HOCHSCHILD: (Indiscernible.)

4 COMMISSIONER GALLARDO: Quickly also, Jason,  
5 excellent job with your presentation, really appreciated  
6 that. And I'm also really enthusiastic about making more  
7 data accessible to the public.

8 During our IEPR experiences even this past year,  
9 we heard a lot from the people wanting to have more data.  
10 So they do want that balance. Not so much data that it  
11 overwhelms them and they can't do anything with it, but  
12 just you know, enough so that they know what's happening.  
13 So I think this is going to be a big game changer for  
14 folks. And also just hearing that there were over 100  
15 people attending the workshop shows how hungry people are  
16 for it.

17 So I know it's been said, but I just also want to  
18 emphasize my enthusiasm for the data and what we can do  
19 with it. And we've heard that from folks in the Salton Sea  
20 region on Lithium Valley. And I don't know what we can do  
21 there, but Jason, I look forward to working with you to see  
22 if there's more we can do on data to give people for  
23 Lithium Valley purposes as well.

24 CHAIR HOCHSCHILD: Yeah, I echo all those  
25 comments. And Jason, again congratulations on the

1 progress.

2 I do want to particularly emphasize I think the  
3 ZEV Dashboard really set the gold standard and I use that  
4 all the time. It's a wonderful tool. And we think about  
5 all the additional new goals we have now around electric  
6 heat pumps, around climate-friendly homes, you know, all  
7 the rest of it. That we're really in a period of what  
8 we're calling the great implementation. And maybe I think  
9 the goal specifically from my perspective with these  
10 visualizations, is to always aim for a visual that's so  
11 good it could just be cut and pasted into a national  
12 newspaper, "New York Times" or "Washington Post" news story  
13 on what's happening with clean energy in California. We  
14 want to make something that really is accessible and  
15 understandable to an audience.

16 And actually I would say like the visuals that  
17 you see in these leading news organizations have gotten a  
18 lot better. And I think where there's some great models  
19 there for us to look at, you know? Yeah, yeah. And so I  
20 think that's the goal. Because we have a very bifurcated  
21 energy governance in California with the PUC and us in the  
22 CAISO, and occasionally CARB on some issues. And the story  
23 we're trying to tell is just what's happening in the market  
24 and our clean energy progress in the state in a way that  
25 inspires. And actually can get other states and other

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1 countries excited to go big on our policies. Because we'll  
2 all go further, and farther, and faster together if we have  
3 more buy in.

4 I think the visuals play a big role in persuading  
5 peoples' minds, so this is a very high value endeavor. I  
6 don't view this is some sidebar little pet project. This  
7 is really one of the fundamental muscles of the Energy  
8 Commission that we've built and made good use of. And so  
9 keep going Jason and team, Erik, and everyone else. We can  
10 do some great things with this.

11 Commissioner McAllister, you had an additional  
12 point?

13 COMMISSIONER MCALLISTER: Yeah, also it occurs to  
14 me when we speak about visualizations often we mean some  
15 kind of linkage into GIS and mapping and all that kind of  
16 stuff. And I think in that respect the conversation has a  
17 bit of Karen Douglas's DNA. You know, she webbed  
18 (phonetic) the DRECP, and that was a quite visually  
19 intensive, very data intensive, mapping exercise. And  
20 that, you know, inspired some of this, actually. And she  
21 was really helpful, helping to conceptualize this along the  
22 way.

23 And I think to Commissioner Gallardo's point, the  
24 lithium Salton Sea area, Lithium Valley, just there are  
25 some -- lots of geographical-based analyses that are going

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1 to be really key for the equity perspective. And I think  
2 we need to find ways to build those in.

3 And then finally the dynamic across the agencies  
4 is changing already. The PUC has realized that we have  
5 this resource. That it's there for use across the  
6 agencies, and it asked us to kind of be the clearing house  
7 for some of the meter data that we're collecting. And sort  
8 of avoiding some of the transaction costs that it  
9 historically has taken to bring some -- bring that data  
10 together, and sort of rinse and repeat with the next  
11 project. And so this gets through a lot of those  
12 informational barriers.

13 And so I think just for many, many reasons this  
14 standardization is just going to be super helpful. And  
15 Jason, again thanks for putting together this process and  
16 really arguing for it. And laying out the process that  
17 we've followed and gotten to where we are. Because I think  
18 it really wouldn't have happened so well, in such an  
19 excellent form, without your leadership and vision here.  
20 So thank you again.

21 CHAIR HOCHSCHILD: Okay, any further comments?  
22 (No audible response.) Okay. Thank you, Jason.

23 We'll turn now to Item 5 Solar Energy Generating  
24 System Petition to Decommission.

25 (Audio cuts out during opening of agenda Item 5

1 presentation.)

2 COURT REPORTER: Sorry, the Court Reporter can't  
3 hear the speaker.

4 MR. HEISER: Hello? All right.

5 COURT REPORTER: There we go.

6 MR. HEISER: Available by phone representing  
7 Project Owner Terra-Gen, Kevin Butler, Plant Manager, and  
8 Amy Fuller, as an Agent for LUZ Solar Partners.

9 We are here today to request your approval of a  
10 decommissioning and licensed termination for the Solar  
11 Energy Generating Systems IX project. This request would  
12 allow the final SEGS Unit IX to begin decommissioning  
13 activities and then terminating their CEC license. Next  
14 slide, please.

15 Altogether, there were nine independent power  
16 producer parabolic solar trough plants constructed at the  
17 beginning of California's renewable energy movement in the  
18 late 1980s. Built in the Mojave Desert, these nine  
19 independent plants established an excellent track record  
20 for this solar technology. At its peak these plants had a  
21 combined capacity of 354 megawatts and powered nearly  
22 250,000 homes and displaced 3,800 tons of pollution per  
23 year that would have been produced if electricity had been  
24 provided by fossil fuels.

25 Thirty-three years later, the SEGS IX facility

1 continues to operate providing 80 megawatts to the electric  
2 grid. And it is the last of the 9 units, this summer will  
3 be the last summer it will operate. The current owner,  
4 Terra-Gen, would like to develop the site and other  
5 previous decommissioned SEGS sites with a renewable energy  
6 projects generating more than a 150 megawatts of clean  
7 energy. Including 4 gigawatt hours of battery storage  
8 capacity, assisting both the county of San Bernardino, and  
9 the state in complying with the Renewables Portfolio  
10 Standard under Senate Bill 350, which requires 50 percent  
11 of all electricity sold in California shall be generated  
12 from renewable energy sources by December 31, 2030. Next  
13 slide, please.

14           Located in San Bernardino County, SEGS IX was  
15 approved by the CEC in February of 1990 as part of a joint  
16 license with SEGS 10, known as the SEGS IX-X Harper Dry  
17 Lake Solar Thermal Project. By October 1990, SEGS IX was  
18 fully operational providing electricity under a power  
19 purchase agreement with Southern California Edison, which  
20 remains in place to this day.

21           After safe layup, decommissioning, and demolition  
22 activities have been completed and the facility's  
23 certification terminated, the County of San Bernardino will  
24 assume jurisdiction over the SEGS IX site. Also, a  
25 proposed battery energy storage system approved by the CEC



1 for use by the SEGS VIII and IX facilities was never  
2 constructed. And its approval would also be terminated  
3 with the termination of the SEGS IX certification. Next  
4 slide, please.

5 With Terra-Gen's required filing of a final  
6 decommissioning and closure plan, the CEC staff began a  
7 comprehensive review process analyzing whether the proposed  
8 decommissioning plan would comply with applicable laws; the  
9 plan avoids significant effects on the environment; and a  
10 modification could be made that upon completion of  
11 decommissioning, the facility's certification can be  
12 terminated.

13 Staff is recommending the modification and  
14 addition of new Conditions of Certification, as outlined in  
15 staff's analysis, to ensure the project impacts would be  
16 less than significant.

17 Finally, staff did receive one comment letter  
18 from the Project Owner requesting additional explanatory  
19 language in the biological resources section of the  
20 analysis. Since the proposed edits do not change the  
21 conclusions in the analysis, impact the decommissioning  
22 process, or change any of the Conditions of Certification,  
23 staff concluded that revisions were not necessary to the  
24 final docketed analysis. Next slide, please.

25 Staff recommends your approval of the order

1 granting the petition to decommission SEGS IX and terminate  
2 its license, including the addition of new and modification  
3 Conditions of Certification in the Decision, as amended.

4 Thank you. Any questions, staff is available.

5 CHAIR HOCHSCHILD: Thank you.

6 Let's take public comment first, and then --

7 MS. BADIE: Thank you. This is Mona Badie, the  
8 Public Advisor. The Commission now welcomes public comment  
9 on Item 5.

10 If you are in the room, you can notify us you'd  
11 like to make a comment by visiting the Public Advisor desk  
12 on the side and using the QR code. If you are on Zoom, we  
13 ask that you use the "raise hand" feature to notify us, and  
14 if you're joining by phone press \*9 to raise your hand.

15 Okay, I'm not seeing anyone has signed up to make  
16 comments in the room, and I'm now turning to Zoom. We have  
17 one hand raise, Amanda Johnson. Amanda, I'm going to open  
18 your line. Please unmute on your end, spell your name for  
19 the court reporter, and mention any affiliation.

20 MS. JOHNSON: Hi, my name is Amanda Johnson and  
21 that is spelled A-M-A-N-D-A J-O-H-N-S-O-N. I am with LSA  
22 Associate and I am serving as the Environmental Consultant  
23 to the Project Owner. And I just wanted to take this  
24 opportunity to thank the Commission for their review and  
25 processing of the decommissioning plan and request to

1 terminate the license. We especially wanted to thank our  
2 CPM, John Heiser, as well as Mary Diaz, Elizabeth Huber and  
3 Jared Babula, for their assistance and guidance throughout  
4 the process. Thank you so much.

5 MS. BADIE: Thank you.

6 That was the only comment that we had for this  
7 item. Back to you, Chair.

8 CHAIR HOCHSCHILD: Okay. I had a few questions,  
9 I know the Vice Chair did as well. But Commissioner  
10 Gallardo, this is her first siting case, any comments you  
11 wanted to make?

12 COMMISSIONER GALLARDO: It's silly, I haven't had  
13 a chance to dive deep into this. It's just I know the  
14 staff works really hard, and you know, just admire them for  
15 all they're working on here. So appreciated the  
16 presentation by John Heiser. And yeah, I'll turn it over  
17 to you for comment.

18 CHAIR HOCHSCHILD: Go ahead, Vice Chair.

19 VICE CHAIR GUNDA: So, John, just a couple of  
20 questions. First of all thank you for the presentation.  
21 So the overall -- the repowering opportunity for the site  
22 there, could you explain what the developer's plans are.  
23 And also the timing on the SEGS decommissioning? I know  
24 it's going to be running this year right, this summer.

25 MR. HEISER: Correct. The decommissioning moving

1 forward with all the other SEGS sites, they are planning on  
2 converting it to solar PV development with the county, with  
3 battery energy storage systems site through the  
4 jurisdiction of San Bernadino County. SEGS IX is going to  
5 be operating this summer with the beginning of their  
6 decommissioning probably about the fourth quarter of this  
7 year. They're trying to wrap up by midyear 2024.

8 VICE CHAIR GUNDA: So in terms of the total  
9 project generation capacity today, to what is envisioned  
10 for the future. Is it going to be one to one, more or  
11 less?

12 UNKNOWN SPEAKER: (Indiscernible.)

13 MR. HEISER: Yes, thank you.

14 (Audio cuts out briefly.)

15 MS. HUBER: Thanks. So, I'm Elizabeth Huber.  
16 I'm the Director of the Siting, Transmission, Environmental  
17 and Protection Division. And to answer your question, one,  
18 Kevin and Amy are on the line and they can get more  
19 specific. But our understanding is as you -- as the dais  
20 is aware we have already approved decommissioning plans on  
21 SEGS III through VII and VIII. And we removed a boundary  
22 change on SEGS X. So they've begun construction on this PV  
23 -- solar PV and battery storage project. So by closing  
24 this down after summer 2023, they'll have the availability  
25 to complete that project. And the goal is to have, I

1 think, upwards of 150 megawatts of solar PV. And then  
2 storage of about 75 megawatts of battery storage available  
3 by summer of 2024.

4 VICE CHAIR GUNDA: Great. So just in terms of --  
5 Elizabeth, first of all thank you for your incredible work  
6 on the reliability. Just kind of thinking through the  
7 reliability lens and the difficulty of completing the  
8 interconnection studies in time, and the deliverability  
9 studies in time. Just kind of thinking through maximizing  
10 the deliverability that the site might have. And also the  
11 intersection with the DEBA funding, if there's opportunity  
12 for any additional clean resources that we could put there.  
13 Just want us to collaborate on that one and just kind of  
14 making sure you advise the Commission and the developer on  
15 making it as seamless as possible in terms of good  
16 resiliency. So that's all. Thank you.

17 MS. HUBER: No, absolutely. And we've had those  
18 discussions, preliminary discussions, with the Project  
19 Owner. And the good news of this transition is that there  
20 are transmission and substation infrastructure is already  
21 in place. So, they'll be able to utilize some of the  
22 existing equipment and buildings and facilities there as  
23 they transition over. Thank you.

24 CHAIR HOCHSCHILD: Just a follow up question. So  
25 all the SEGS projects together, my recollection is about

1 350 megawatts, all in.

2 MS. HUBER: Correct.

3 CHAIR HOCHSCHILD: And the planned replacement  
4 with PV will be what's the total capacity?

5 MS. HUBER: Oh, that's a great question. So  
6 there's three different projects with three different  
7 project owners. So I can follow up with you on the other  
8 projects that are on SEGS III through VII. I'm only aware  
9 of VIII, IX and X for decompensation.

10 CHAIR HOCHSCHILD: Okay, who would be great to  
11 get an answer. I mean, I just want to observe this is part  
12 of what happens in the maturation of clean energy industry  
13 is there is this precise transition. So at the time where  
14 these projects were built, you know, PV and solar thermal  
15 were roughly comparable in cost. And so we've saw big  
16 projects not just with parabolic trough, but also with the  
17 tower technology like Ivanpah. And then what's happened  
18 since is PV costs have just continued to go down,  
19 efficiency has gone up.

20 And this is a natural evolution of the energy  
21 industry. And it is to the benefit of ratepayers, because  
22 we're now deploying the technologies that are lowest cost  
23 and highest efficiency. And one of the interesting  
24 innovations that's happened is actually improving around  
25 tracker, PV tracker technology. Where they're doing very

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1 sophisticated modeling. And also the roads, they used to  
2 be all ganged, you know, so it's one motor. And now they  
3 do it on hilly terrain and they have separate motors. So  
4 it's like they are just finding ways to optimize. They do  
5 backtracking so that at the end of the day the panels  
6 actually go flat, so that they're not causing shading from  
7 one array to the next. I mean, this is just like squeezing  
8 out every little incremental amount.

9           So, this is actually I just wanted to observe  
10 this milestone here. Because this is kind of -- the SEGS  
11 project has a very prominent place in the history of  
12 California and renewables are right up there with Altamont  
13 Pass. And one of the landmark projects that really showed  
14 the country how to do large scale renewables. And this is  
15 kind of another very significant moment as we're seeing  
16 this transition.

17           I would love to follow up on the total cumulus  
18 capacity would be great.

19           And Elizabeth, I just want to say again publicly  
20 what I said to you privately. You are doing an amazing  
21 job. I just really appreciate the diligence, the energy,  
22 the focus you've brought to the Siting Division. And at  
23 just the right time, because we have so much to build in  
24 particular with opt-in permitting. So I just want to  
25 really thank you for your professionalism, and that of your

1 team, Jared and everyone else. It's been great to see, and  
2 congrats on all the work.

3 MS. HUBER: Thank you.

4 CHAIR HOCHSCHILD: Unless there are any other  
5 comments from my colleagues I'd welcome a motion on Item 5  
6 from Commissioner Gallardo.

7 COMMISSIONER GALLARDO: I move to approve Item 5.

8 CHAIR HOCHSCHILD: Is there a second?  
9 Commissioner Monahan.

10 COMMISSIONER MONAHAN: I second.

11 CHAIR HOCHSCHILD: All in favor say aye.  
12 Commissioner Gallardo.

13 COMMISSIONER GALLARDO: Aye.

14 CHAIR HOCHSCHILD: Commissioner Monahan.

15 COMMISSIONER MONAHAN: Aye.

16 CHAIR HOCHSCHILD: Vice Chair Gunda.

17 VICE CHAIR GUNDA: Aye.

18 CHAIR HOCHSCHILD: Commissioner McAllister.

19 COMMISSIONER MCALLISTER: Aye.

20 CHAIR HOCHSCHILD: And I vote aye as well. Item  
21 5 passes unanimously.

22 We'll turn now to Item 6, Zero Emission  
23 Transportation Manufacturing.

24 MS. MAGANA: Good morning, Chair, Vice-Chair and  
25 Commissioners. My name is Pilar Magaña with the Fuels and



1 Transportation Division. Staff is seeking approval for two  
2 projects that were proposed for funding under Grant Funding  
3 Opportunity GFO-21-605 known as the Zero-Emission  
4 Transportation Manufacturing solicitation.

5 UNKNOWN SPEAKER: I just want to make sure that  
6 the public -- that the court reporter, the reporter can  
7 hear. Is the mic on?

8 COURT REPORTER: Yes, speaker is audible.

9 UNKNOWN SPEAKER: Oh okay, great. Perfect, thank  
10 you.

11 MS. MAGANA: Okay, next slide, please.

12 Before presenting these two projects, I wanted to  
13 provide a brief overview of the purpose of the  
14 solicitation, which sought proposals to increase in-state  
15 manufacturing of Zero Emission Vehicles or ZEVs, ZEV  
16 components and batteries, and ZEV infrastructure, which  
17 will contribute to California's zero-emission  
18 transportation goals.

19 These proposed projects will also attract new and  
20 expand existing ZEV related manufacturing in California,  
21 while increasing the number and quality of manufacturing  
22 jobs in California in the ZEV market

23 They will also bring positive economic impacts to  
24 the state by attracting private investments in  
25 manufacturing capacity.

1           As of January 2023, the Revised Notice of  
2 Proposed Awards, 13 projects are recommended for funding  
3 under this solicitation for a total of \$199.4 million.

4           These projects are being funded by General Funds,  
5 the California Budget Act of 2021, the California Budget  
6 Act of 2022, and the Clean Transportation Program. Four of  
7 these projects were approved at last month's Business  
8 Meeting. And today, I will present on two of the projects  
9 under this solicitation totaling \$30.9 million, and  
10 additional awards will be proposed at future business  
11 meetings.

12           Next slide, please.

13           The two projects I am presenting today will  
14 contribute to California's ongoing efforts to accelerate  
15 zero emission vehicle adoption in the transportation  
16 sector.

17           Bringing economic benefits and job creation to  
18 California, Aptera will onshore manufacturing to California  
19 from abroad. Once fully operational, this project will  
20 manufacture thousands of ZEVs that will displace 100,000  
21 metric tons of GHG emissions during the project term while  
22 creating approximately 444 high-quality manufacturing jobs  
23 in Vista and Carlsbad.

24           Symbio will stimulate the adoption of fuel cell  
25 electric vehicles in California by increasing fuel cell

1 electric vehicle availability. Additionally, Symbio's  
2 leasing and purchasing options will serve as an opportunity  
3 for local fleets and truck drivers to experience fuel cell  
4 electric vehicles with ongoing support.

5 Furthermore, Symbio will be establishing its  
6 hydrogen fuel cell workforce training program in  
7 collaboration with California Universities including  
8 California State University LA, UC Riverside and Cerritos  
9 College, increasing job and training opportunities in the  
10 state for years to come. Next slide, please.

11 The first proposed agreement is with Aptera Motor  
12 Corporation. Aptera is proposing to onshore manufacturing  
13 and assembly of their 3-wheel, two-seater solar electric  
14 vehicle and vehicle components to California. This unique  
15 passenger battery electric vehicle is powered both from  
16 plug-in charging and from its built-in solar panel. The  
17 vehicle is currently on pre-order and is expected to be  
18 available to consumers in mid-2023.

19 This agreement will enable Aptera, with support  
20 from the CEC, to procure the advanced manufacturing  
21 equipment and resources necessary to scale up ZEV  
22 manufacturing to 20,000 vehicles annually by 2025 when at  
23 full production capacity. Manufacturing operations will be  
24 located in Vista and Carlsbad, California.

25 The proposed award for this project is \$21.9

1 million with match funds of \$ 26.4 million. Next slide,  
2 please.

3           The second agreement is with Symbio North America  
4 Corporation to establish one new manufacturing facility in  
5 Temecula and expand operations at their existing facility  
6 in Poway.

7           Symbio will be manufacturing hydrogen fuel cell  
8 power systems and assembling fuel cell heavy-duty trucks  
9 with a combined production capacity of 250 FCEV and 250 to  
10 300 heavy-duty fuel cell power systems at their facilities.

11           The proposed award for this project is  
12 approximately \$9 million with match funds of \$10.9 million.  
13 Next slide, please.

14           Staff is seeking your approval for these two  
15 agreements as well as adoption of staff findings that each  
16 of these projects are exempt from CEQA.

17           We have Pablo Ucar from Aptera in attendance via  
18 Zoom and Rob Del Core from Symbio attending in person who  
19 are happy to answer any questions.

20           That is the end of my presentation, and I am  
21 happy to answer any questions you may have. Thank you.

22           CHAIR HOCHSCHILD: Thank you so much, Pilar.  
23 Let's go to public comment.

24           MS. BADIE: Hello, this is Mona Badie, the Public  
25 Advisor. The Commission now welcomes public comment on

1 Item 6. If you are in the room, you can visit the Public  
2 Advisor's table or approach the podium if you wish to make  
3 a comment. And on Zoom, please use the "raise hand"  
4 feature to notify us you'd like to make a comment. If  
5 you're joining by phone, press \*9 to raise your hand. And  
6 I'm not seeing anyone in the room, so I'm going to move to  
7 Zoom. There is one.

8 Mr. Ucar, I've seen your hand raised and lowered.  
9 If you wish to make a comment, please raise your hand again  
10 and I will open your line, okay. Mr. Ucar, I'm going to  
11 open your line, please unmute on your end, spell your name  
12 for the record, and state any affiliation, and then you can  
13 begin your comment. Thank you.

14 MR. UCAR: Hello. Good morning. Can you hear  
15 me?

16 MS. BADIE: Yes.

17 MR. UCAR: Oh, good. So good morning. My name  
18 is Pablo Ucar. I'm the Vice President of Supply Chain and  
19 Manufacturing of Aptera Motors, and also the Project  
20 Manager for this project.

21 I want to start by saying thank you to the Energy  
22 Commission for your support and the vision in this project.  
23 This will help us tremendously to scale up in the future  
24 solar mobility by building what we call the next generation  
25 of vehicles here in California. So again, thank you very

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1 much for your support.

2 MS. BADIE: Thank you.

3 MR. UCAR: And I welcome any questions you might  
4 have for me today.

5 MS. BADIE: Thank you for your comment.

6 I think there's one more comment in the room, and  
7 then I have a comment to read. Thank you.

8 MR. DEL CORE: Terrific. Good morning. Can you  
9 hear me okay? Good morning. My name is Rob Del Core, I'm  
10 the General Manager of Symbio North America.

11 First, I'd like to take this opportunity to say  
12 thank you, Commissioners and thank you for -- thank you,  
13 Energy Commission. We are -- Symbio is committed to  
14 California and USA as well too. And Symbio is well  
15 supported by our shareholders, Michelin and Faurecia who  
16 are very committed to California and the US. And also to  
17 bring fuel cell technology here as well as the know how,  
18 and to develop the workforce training in California and US.

19 So thank you again. And we look forward to  
20 growing this this market together, together with the  
21 California government.

22 MS. BADIE: Thank you. And I have received, and  
23 this is the Public Advisor, I've received one comment in  
24 writing with a request for it to be read into the record.  
25 This comment is from Steve Uhler for Item 6a.

1           The comment reads, "The Aptera, a three-wheel,  
2 two-passenger on-road vehicle could be in the running of my  
3 first all-electric vehicle. I'm hoping the vehicle will  
4 also have the off-road capabilities advertised in how they  
5 take off to power all my electric life."

6           And that's it for public comment. Back to you,  
7 Chair.

8           CHAIR HOCHSCHILD: Okay, thank you. I know I  
9 have questions for both companies. Let's begin though with  
10 Commissioner discussion with Commissioner Monahan.

11           COMMISSIONER MONAHAN: Well, this is a series of  
12 grants that we're making on manufacturing. I think  
13 everybody knows, but I'd love to restate it, we have some  
14 55 zero emission vehicle-related manufacturers in the State  
15 of California. We're tracking them on the ZEV Dashboard.  
16 And we also have 70,000 jobs in the ZEV ecosystem; 13,000  
17 are planned or existing just for manufacturing. And I  
18 think when people think of California, you don't think of  
19 manufacturing. You don't think of like that we are the  
20 number one source of jobs in the zero emission vehicle  
21 manufacturing and ecosystem of ZEV related jobs. So we  
22 want to stay number one.

23           And these manufacturing grants, total of \$250  
24 million altogether over two years, are one of our sort of  
25 flagship offerings. I think it's not the only one we're

1 offering, but as a state it's definitely not the only one  
2 we're offering, but one of -- one important one.

3           And I just want to thank Pilar, but I also want  
4 to thank Jonathan Bobadilla who has kind of managing all of  
5 them; our Chief Counsel, Linda Barrera who has gotten  
6 involved; Drew who has gotten involved. This has been an  
7 all-hands-on-deck grant program, and just want to thank  
8 everybody for their support and engagement on this.

9           I love Mr. Uhler's comments about Aptera. I too  
10 really want to test drive it. I feel like it looks it  
11 looks very cool. It's not yet on the road, but it's  
12 something we're looking forward to seeing.

13           I would also say, you know, we're taking -- this  
14 was a competitive process, so the team was very careful  
15 about making sure that this was competitive. And we're  
16 encouraging innovation, so the Aptera vehicle is an  
17 innovative vehicle. You've never seen one on the streets  
18 before.

19           So we're taking calculated risks in terms of  
20 really wanting to support innovation in the ZEV ecosystem.  
21 And recognizing that electrification offers this  
22 opportunity to be really innovative. And for companies  
23 instead of participating as an OEM in this production of  
24 internal combustion vehicles, there's a lot more innovation  
25 and speed that couldn't come to market in the ZEV space.



1           So really excited also to be funding a fuel cell  
2 vehicle in the medium and heavy -duty space, which is going  
3 to be really, I think, critical for California reaching its  
4 goals on zeroing out toxic diesel pollution. So excited to  
5 support these two grants, and looking forward to your  
6 questions and comments.

7           CHAIR HOCHSCHILD: Great. Other Commissioners?

8           Okay, so well first of all congratulations,  
9 Commissioner Monahan, for your amazing leadership and that  
10 of your team. And I would point out, electric scooters and  
11 one-wheeled electric devices, and all these -- these are  
12 all new as of last year. So it's appropriate to take some  
13 forward thinking posture here.

14           I had questions for each of the companies if  
15 that's okay, starting with Aptera. That looks like a  
16 Jetsons kind of device. Is that something that is capable  
17 of going freeway speeds? Or is that like for really on  
18 road?

19           MS. BADIE: Jonathan, I think you're on the line.  
20 I think he would (indiscernible).

21           MR. UCAR: Hi, this is Pablo, can you hear me?

22           CHAIR HOCHSCHILD: Yes.

23           MR. UCAR: Okay, so yes. This vehicle actually  
24 can go on the highway, and the top speed in this vehicle is  
25 limited to 110 miles an hour. So it drives like a real

1 vehicle. It's not just a three wheeler. The reason it's a  
2 three wheeler is because we want to be the most efficient  
3 vehicle in the world, three wheels are more efficient and  
4 four wheels. So it's a two passenger vehicle, it performs  
5 and behaves like a regular car on the highway.

6 CHAIR HOCHSCHILD: Great, and what's the range?

7 MR. UCAR: The range of the vehicle, we offer  
8 four different packages: 250 miles range, 600 miles range,  
9 1,000 mile range, and we have also the 400-mile range  
10 coming up. So we're going to start with a 400 probably  
11 initially, because it fulfills that middle gap. But the  
12 range is up to 1,000 with the next generation of cells.

13 And what we get out of solar -- excuse me, out of  
14 solar power in California is about 40 miles of free energy  
15 every single day. The vehicle right now, so you know, is  
16 in Europe. It was presented in Switzerland. And everybody  
17 knows the energy crisis in Europe. So this technology was  
18 very well recognized as something that needs to be in  
19 inserted in other vehicles, other platforms in the world.

20 CHAIR HOCHSCHILD: Great. Okay, that's really  
21 helpful. Thank you.

22 Question for Symbio. Just I'm curious, you know,  
23 when you were looking at hydrogen fuel cell versus electric  
24 how do you compare and contrast since obviously Tesla's  
25 doing an all-electric semi. And so the pros and cons when

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1 you were looking at different options?

2 MR. DEL CORE: Well, that's a great question.

3 And, of course, we're looking at applications where  
4 hydrogen fuel cell can really dominate in terms of the  
5 benefits for things like fast fueling long range, and of  
6 course payload capacity as well.

7 As a matter of a fact, we're already the  
8 recipients of another California Energy Commission grant to  
9 demonstrate a class 8 truck. This truck project is  
10 currently underway. This truck will actually operate in a  
11 route that's very demanding, going from Southern California  
12 to Northern California, through the grapevine, with more of  
13 a regional haul routes where you'll see higher average  
14 speeds. You'll sustain grades ascending and descending as  
15 the truck goes through the grapevine. And this is one of  
16 the considerations where the range and that kind of duty  
17 cycle are quite demanding. It'll be quite challenging for  
18 other technologies such as battery, for example.

19 But when we're looking at the needs of the  
20 customer, which is also not only the OEM -- we are Tier 1,  
21 so not only the OEM, the fleet customer -- we're looking  
22 for where it can help their operations in terms of payload  
23 capacity being able to carry as much payload as possible,  
24 which is part of their business. That allows us to offer a  
25 lighter configuration of drive train using our fuel cell

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1 technology. And, of course, the fast fueling that comes  
2 with the hydrogen on board.

3 And then the ability to be able to do that route  
4 over 400 miles of range on a single field. And we are  
5 doing that particular project with existing infrastructure.  
6 So that's already in place. We're not building any new  
7 infrastructure, which is a great way to leverage the work  
8 that has already been done by the Energy Commission on the  
9 energy that we see going forward.

10 CHAIR HOCHSCHILD: Yeah, great.

11 (Indiscernible) Vice Chair Gunda?

12 VICE CHAIR GUNDA: Just building off of the  
13 Chair's question, we have been having conversations on the  
14 fuel cell technology, especially in the MDHD space. What  
15 part of the grid, the future of the grid, the need for  
16 improving the grid for electrification is going into the  
17 value proposition for how you structure your future  
18 company? I think it'll be helpful just to get think at a  
19 policy level.

20 MR. DEL CORE: Well, that's great too. And when  
21 we approach the market we are looking at things  
22 holistically. So our core business is around the fuel cell  
23 technology. But what matters, of course, is everything in  
24 the ecosystem that becomes part of it. So everything that  
25 the state is doing as well as industry in terms of supply

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1 chain, so both on the demand side and on the supply side as  
2 well. So hydrogen offers a great capacity to be able to  
3 link transportation with the energy sector, the grid sector  
4 as well, too. So when we're looking at coupling renewables  
5 with generating hydrogen from green sources, this is one  
6 way to really help with the deployment of the technology.  
7 Because from our company point of view we represent the  
8 demand side of the equation. But we see the need of having  
9 hydrogen come in abundance sources, and also from green  
10 sources as well too.

11           So with green generation of hydrogen, ideally  
12 electrolysis would be a great way to do it. That can be  
13 used to stabilize the grid, to play a role in things like  
14 frequency regulation and load balancing. At the same time  
15 generating renewable green hydrogen from sources that the  
16 vehicles that we're powering can take as an offtake. So we  
17 look at it holistically. It's a highly coupled view of the  
18 problem, so we represent that the commuted offtake that  
19 will help discussions in planning and execution and supply  
20 of hydrogen to create that volume, to give the confidence  
21 to get the prices down to the dollars per kilo needed to  
22 make the total cost of ownerships work, which is where  
23 we're headed.

24           VICE CHAIR GUNDA: Thank you, so much.

25           And Commissioner Monahan, just a big

1 congratulations to you. Every time we put out these  
2 contracts, our grants (indiscernible) to me, my brain  
3 doesn't work in this space. And just the thoughtfulness  
4 you bring to like really moving the state forward in such a  
5 bold fashion, it's just mind boggling to me. Like the  
6 amount of money we're putting out, and trying to create  
7 industry and moving forward and transforming it. So just a  
8 big congratulations to you. And thank you for your  
9 leadership.

10 I had one question maybe you could just -- given  
11 as we move forward with the market, so much of this  
12 intersects with the grid planning and the modeling that we  
13 do for the planning and such. How do you envision the  
14 future market conditions, and then being ready to it? You  
15 know, like you're going to lead the IEPR this year, and  
16 then a lot of the focus is going to be how do we  
17 interconnect. But it would be really helpful to hear your  
18 vision on how you think we could both activate the market,  
19 but also create the conditions for the market to be really  
20 well established. And how do we model and plan? I'd love  
21 to hear your thoughts on it.

22 COMMISSIONER MONAHAN: That's a really big  
23 question. Let me just start by actually pivoting on the  
24 thank you. I want to say actually, the Chair has been a  
25 real visionary leader on this, you, Vice Chair Gunda, In

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1 terms of that intersection with the grid. I do feel like  
2 all of a sudden we're coming together as one.

3           And I want to say the team that's working on this  
4 is crack. Hannon Russel, the branch managers, the staff,  
5 this has been inspirational just to see as in my short  
6 time, you know, we've gone from 100 million budget to --  
7 like, we had the \$2.9 billion investment plant. This has  
8 been just such a big ramp up. And the team has really been  
9 working super hard on this. And so it's just a team  
10 effort. We're all in this. There's no one person that can  
11 do it all. And our job is really to empower competent  
12 staff to go out and change the world. So just that.

13           And then on the grid side, I would say we're in a  
14 state of deep learning. We're going to be bringing a  
15 solicitation called REDWDS that's going to look at how we  
16 can provide benefits to the grid through electric  
17 transportation. We're also going to bring a new Z2 school  
18 bus solicitation forward.

19           And you know, what we're trying to do right now  
20 is really figure out how much can we count on EVs to  
21 deliver energy back to the grid? How much can we count on  
22 EVs to be charged at the right time of day? How much can  
23 we count on EVs to provide energy to homes, so they could  
24 be more resilient but also they could also help support the  
25 grid.

1 I mean, these are all its early days. And I  
2 actually think this is another all-hands on deck. We don't  
3 know all the answers, but we are positioned to learn  
4 incredible amounts over the next several years with our  
5 investments. And we have to do a better job, because they  
6 have to be grid assets in some way.

7 And so this is going to take all agencies again  
8 working together to figure out how to unlock the potential  
9 and capitalize on EVs to be a boon for the grid.

10 VICE CHAIR GUNDA: Great, thank you. I mean I  
11 think for me again I just want to reiterate I think your  
12 vision for the IEPR this year, I think is amazing. I look  
13 forward to working with you. And you're just setting the  
14 stage for the great implementation, as the Chair says. And  
15 yeah I mean I love the vision of what you're thinking for  
16 the IEPR and look forward to coordinating.

17 CHAIR HOCHSCHILD: Yeah, I also want to join just  
18 commending you for incredible leadership, and Hannah Rasul  
19 and the whole team. This is super exciting.

20 And just to share one idea with these companies,  
21 I just -- which I just shared with Commissioner Monahan.  
22 Prior to COVID we had started to do a tour of clean vehicle  
23 manufacturing around California, trucks, passenger  
24 vehicles, and so on. And then that got called off because  
25 of COVID. And then we got super, super busy, because of

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1 all this huge infusion of budget.

2 One thing -- and we were doing this with our  
3 sister agencies with PUC and CAISO and others and CARB.  
4 And so one thing I just had started doing, which we've done  
5 for a couple other projects that are virtual tours, where  
6 just you could take an iPad around the factory, and it's a  
7 chance just for Commissioners ask questions. And so we may  
8 follow up with you on arranging a virtual tour for  
9 Commissioners to have a chance to see these facilities.

10 Before we leave I did have one question for each  
11 company, which is around what federal tax credits are you  
12 able to avail yourselves of? I know in the battery sector,  
13 in state manufacturing is getting like the 45 Q credits.  
14 Are you, both Aptera and Symbio, able to take advantage of  
15 federal tax credits for these projects? Maybe starting  
16 with Aptera.

17 MR. UCAR: Yes, this is Pablo. Jay, he is on the  
18 line. He can probably answer that question right now.  
19 Jay, are you online?

20 MS. BADIE: Sorry, I'm going to find Jay.

21 MR. UCAR: Sorry.

22 MS. BADIE: Okay, Jay, your line is open. Please  
23 spell your name for the record. Thank you.

24 MR. FRIEDLAND: Sure. Hi, this is Jay Friedland.  
25 It's F-R-I-E-D-L-A-N-D. And I'm a Project Advisor and

1 very, very proud to be working with Aptera this project.

2 CHAIR HOCHSCHILD: Jay, can I ask you to just try  
3 and speak up a little bit? That'd be great, thank you.

4 MR. FRIEDLAND: Sure. Is that better?

5 CHAIR HOCHSCHILD: Sure, yes.

6 MR. FRIEDLAND: Okay. Yeah, so as far as federal  
7 tax credits go it's actually been very difficult for non-  
8 four wheel vehicles to get federal tax credits. There was  
9 a federal tax credit of 10 percent in place. It expired,  
10 actually was kind of eliminated as part of the revision to  
11 the current four-wheel light-duty vehicle credits that are  
12 in place now with all the new requirements. But there's a  
13 coalition of vendors that are OEMs that are basically  
14 working to try and get it reinstated. And it sorts of both  
15 two-wheeled vehicles like zero motorcycles and Harley  
16 Davidson, and then folks like Aptera who have three-wheeled  
17 vehicles. And we think that in the long run, that there's  
18 a significant public policy opportunity to get that.

19 Beyond that though there are potential additional  
20 tax credits via Sections 45 and 48, in terms of supporting  
21 manufacturing, as well as things like the advanced vehicle  
22 technology manufacturing loans.

23 So there are other programs that are available.  
24 And we're exploring all of those to sort of continue to  
25 further expand capacity and availability.

1 CHAIR HOCHSCHILD: Okay, that's helpful.

2 Symbio?

3 MR. DEL CORE: Yes, as part of some ongoing work  
4 right now we are exploring all of the incentives that are  
5 available to the tax level. We're looking at of course IRA  
6 and certainly at the state level as well, too and in  
7 gathering which ones make sense, especially as we are  
8 growing our presence here as well too.

9 COURT REPORTER: This is the court reporter. Who  
10 is speaking right now?

11 MR. DEL CORE: Sorry, this is Rob Del Core with  
12 Symbio.

13 So just as I was saying, this is actually an  
14 ongoing project to actually catalog and position ourselves  
15 to explore this. And we've had some conversations here, of  
16 course, with the state to understand what's available at  
17 the state level to the complement perhaps where the where  
18 the synergies and where the incentives could work together.  
19 So thank you for raising that. It's an ongoing effort on  
20 ours.

21 CHAIR HOCHSCHILD: Yeah, absolutely. Definitely  
22 support you be able to avail yourselves of those.

23 COMMISSIONER GALLARDO: Chair, can I?

24 CHAIR HOCHSCHILD: Yes, Commissioner Gallardo,  
25 please.

1           COMMISSIONER GALLARDO: Yes, I wanted to make a  
2 comment on the community impact here we're having as well  
3 with the work of Commissioner Monahan, the staff, and these  
4 companies. For example, I was just in Mexico and every  
5 time I rolled down the window when I was in the vehicle, I  
6 felt like it was taking a year off my life, because of the  
7 toxic fumes there. And so I feel like this type of  
8 technology and innovations are also improving our health.  
9 And I would love to see, you know, that quantified how many  
10 less cases of asthma for kids or -- are there, because of  
11 the work that we're doing here?

12           And also the livelihood. How with the jobs in  
13 this case in Southern California, that we're creating I  
14 think it's an improvement in people's livelihoods and just  
15 don't want to take that for granted. That's an incredible  
16 impact also that these companies are making, so really  
17 appreciate that value that you're bringing as well.

18           CHAIR HOCHSCHILD: Yes, absolutely. Unless there  
19 are further comments I'd welcome a motion on Item 6 from  
20 Commissioner Monahan.

21           COMMISSIONER MONAHAN: I move to approve Item 6.

22           CHAIR HOCHSCHILD: Commissioner Gallardo, would  
23 you be willing to second?

24           COMMISSIONER GALLARDO: I second.

25           CHAIR HOCHSCHILD: All in favor say aye.

1 Commissioner Monahan.

2 COMMISSIONER MONAHAN: Aye.

3 CHAIR HOCHSCHILD: Commissioner Gallardo.

4 COMMISSIONER GALLARDO: Aye.

5 CHAIR HOCHSCHILD: Vice Chair Gunda.

6 VICE CHAIR GUNDA: Aye.

7 CHAIR HOCHSCHILD: Commissioner McAllister.

8 COMMISSIONER MCALLISTER: Aye.

9 CHAIR HOCHSCHILD: And I vote aye as well.

10 We'll turn now to Item 7, minutes of the January  
11 25th meeting. Commissioner Gallardo, I believe you're  
12 going to abstain on these having --

13 COMMISSIONER GALLARDO: That's correct.

14 CHAIR HOCHSCHILD: -- not participated as a  
15 Commissioner. Is there any public comment on Item 7?

16 MS. BADIE: Thank you. This is Mona Badie, the  
17 Public Advisor. The Commission now welcomes public comment  
18 on Item 7, the minutes. If you are in the room you can  
19 approach the podium or visit the Public Advisor table to  
20 make a comment. And if you are online we are asking you to  
21 raise your hand. If you're on the phone, please press \*9  
22 to raise your hand.

23 I am not seeing anyone in the room or online, but  
24 I do have one comment that was submitted by Mr. Steve Uhler  
25 for me to read. And the comment reads, "At the time of my

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1 writing this comment, the minutes were not available for  
2 comment. Please ensure the minutes are based on the agenda  
3 filed in the docket unit prior to the proceeding start.  
4 Please ensure that only 20 CCR subsection 1104(d) was used  
5 to remove matters from the consent calendar to be  
6 considered as a separate item. If other means were used to  
7 remove a matter from the consent calendar, as if it was an  
8 item to be considered as a separate additional item, then  
9 the public should be given time to comment on each matter  
10 on the consent calendar as if it is a separate item on the  
11 agenda.”

12 And that concludes the public comment. Back to  
13 you, Chair.

14 CHAIR HOCHSCHILD: Okay. Unless there’s  
15 Commissioner discussion, Commissioner Gallardo, would you  
16 be willing to move Item 7?

17 COMMISSIONER GALLARDO: I move Item 7 for  
18 approval.

19 CHAIR HOCHSCHILD: Commissioner McAllister, would  
20 you be willing to second that?

21 COMMISSIONER MCALLISTER: Second.

22 CHAIR HOCHSCHILD: All in favor --

23 MS. BARRERA: Excuse me, if I may? For the  
24 minutes --

25 COMMISSIONER GALLARDO: Oh, I’m sorry.

1 CHAIR HOCHSCHILD: Oh, I'm sorry. I'm sorry,  
2 she's abstaining. Thank you.

3 MS. BARRERA: That's right.

4 CHAIR HOCHSCHILD: Thank you, Linda. Okay.

5 COMMISSIONER MCALLISTER: I'll move Item 7.

6 CHAIR HOCHSCHILD: Commissioner McAllister, would  
7 you be willing to move Item 7?

8 COMMISSIONER MCALLISTER: Yes, move Item 7.

9 CHAIR HOCHSCHILD: And Commissioner Monahan,  
10 would you be willing to second?

11 COMMISSIONER MONAHAN: I second.

12 CHAIR HOCHSCHILD: All in favor say aye.  
13 Commissioner McAllister.

14 COMMISSIONER MCALLISTER: Aye.

15 CHAIR HOCHSCHILD: Vice Chair Gunda.

16 VICE CHAIR GUNDA: Aye.

17 CHAIR HOCHSCHILD: Commissioner Monahan.

18 COMMISSIONER MONAHAN: Aye.

19 CHAIR HOCHSCHILD: And I vote aye, as well. That  
20 passes 4-0 with Commissioner Gallardo abstaining. Thank  
21 you, Linda.

22 We will turn out to Item 8, Lead Commissioner  
23 reports. Commissioner McAllister.

24 COMMISSIONER MCALLISTER: Well, sure. Let's see,  
25 so first I want to just lead off by saying you all know my

1 Executive Assistant, Laura Castaneda. She -- we just had a  
2 report that at 04:30 this morning she had a healthy baby  
3 girl.

4 COMMISSIONER MONAHAN: Oh, bravo.

5 COMMISSIONER MCALLISTER: So that is -- we don't  
6 have a name yet. Maybe she has a name, but I have not been  
7 told that name, so I can't transmit it. But mother and  
8 daughter are doing well. And everything is good. And of  
9 course, the baby is said to be extremely beautiful. So  
10 not a surprise, so but just congrats to Laura. And she's  
11 going to have some time to bond and to be with family. So  
12 congrats to her.

13 Let's see, just a few items of note. I spent  
14 last week at the NASEO, the National Association of State  
15 Energy Officials Meeting, the annual Energy Policy Outlook  
16 Conference in D.C., which is now full steam ahead now after  
17 a couple of years -- well two years off, and I think that  
18 one sort of half theme last year. And just really great  
19 meeting. And obviously just bringing all the states  
20 together, lots of meeting of minds thinking similar  
21 thoughts and sort of distilling out best practices for how  
22 we go forward with many of the IRA and IIJA efforts.

23 And lots of interaction with USDOE, who was there  
24 in person, in force, and which was great, all the way up to  
25 the Chief of Staff. The Secretary was not able to come,

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1 but her Chief of Staff was there. And just lots of  
2 feedback that the states are providing both individually,  
3 and I think very forcefully through NASEO itself up to the  
4 committee staff and electeds and leadership a DOE about how  
5 -- what their guidance for expenditures of the IRA,  
6 particularly money, should look like. And so not exactly  
7 sure how you know whether that'll sort of land and all of  
8 its points. But certainly, there's a robust dialogue.

9           And the Department of Energy has a huge remit on  
10 this stuff. You know, many tens of billions of dollars,  
11 hundreds of billions actually that they're trying to push  
12 out the door and various in something like 72 new programs  
13 that are all total added up into that bill. And we're  
14 getting some number of billions from the feds on a number  
15 of fronts, including building decarbonization.

16           And, you know, staff has submitted applications  
17 recently for the GRIP, the grid resilience opportunity.  
18 And also the RFIs, (phonetic) the compliance improvement  
19 opportunity. And lots more coming up, lots of RFIs and  
20 guidance and just a roiling, massive activity around the  
21 IRA in particular. And just Jen Martin-Gallardo and the  
22 whole team is keeping track of that across all the  
23 divisions, and rolling up their sleeves, and then  
24 developing those proposals for the competitive  
25 opportunities.

1           Really, lots of effort, and I think it's going to  
2 pay off, just given our leadership position. And we hear  
3 that over and over from DOE that they want to -- and from  
4 the White House CEQ, that they really want to collaborate  
5 closely with California to move the needle and innovate.

6           Also on Building Performance Standards, the White  
7 House is very jazzed to work with us on that as that  
8 conversation moves forward in the legislative session this  
9 year.

10           On the State Energy Program Funds, just there are  
11 some inefficiencies in getting us our money, but we're  
12 working through that with DOE. So hopefully that'll happen  
13 in the coming weeks.

14           So I guess, just a couple other items of note.  
15 With Efficiency staff we've been -- and my office -- we've  
16 been trying to visit leading manufacturers and industry  
17 allies on the equitable building decarb front, just  
18 building decarbonization in general. Recently last week,  
19 week before last, we visited Rheem who has a small  
20 manufacturing facility down in Oxnard. They flew out their  
21 corporate brass, and just are really jazzed to work with us  
22 to get the supply chain greased up. And get a lot of heat  
23 pumps out there. And we are obviously wanting to partner  
24 with them.

25           CHAIR HOCHSCHILD: How big of a facility is that?

1           COMMISSIONER MCALLISTER: It's a relatively small  
2 facility. It's actually mostly focused on gas combustion  
3 devices. And so they were a little bit apologetic about  
4 that, but that's the reality. But they did have a lot of  
5 equipment there, sort of in their showcase. And they  
6 actually have some really innovative heat exchanger  
7 technology that they've developed. And some really  
8 interesting stuff that'll, I think provide efficient  
9 electric equipment as well, over time.

10           And they've actually -- you know, a few years ago  
11 I visited their headquarters in Atlanta. And we asked  
12 them, hey could you really get on building a 120 volt water  
13 heater at that time. And they have one now. It's in  
14 production. And so that's going to be I think a big  
15 benefit for existing building retrofits to avoid a lot of  
16 wiring and panel upgrades and things like that. So the  
17 manufacturers are listening to us.

18           And then late last year actually -- I think we  
19 skipped the Commissioner Reports last meeting, but I did --  
20 we also had a group go out to visit LG's Education Center,  
21 which is over in Napa. And so they've got a whole  
22 commercial kitchen over there in Napa. And induction, all  
23 about induction, and electric technologies, heat pumps all  
24 around. Obviously, LG makes a lot of different appliances  
25 that are relevant for our building decarb efforts. And so

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1 it's really great to see that engagement.

2 Also the big box, you know, the Lowes and Home  
3 Depots and others are reaching out to say hey, how can we  
4 partner to make these programs work? So there's a lot of  
5 engagement with all of our trade allies and the supply  
6 chain actors across the state, which is fantastic.

7 And lastly, I just want to call out to our staff  
8 on existing building decarb. You know, Deana, Mike, and  
9 all the staffs across both of the REDI Division and the  
10 Efficiency Division are really just working at breakneck  
11 pace on a lot of detailed efforts to design, get guidelines  
12 going, really map out the process to first utilize our  
13 state budget allocation on existing building decarb. And  
14 figure out how to design and stand up those programs  
15 really, for the long haul. I think we have to assume that  
16 like transportation, buildings will require and will get  
17 sustained investment going forward. We're sort of making  
18 the downpayment here in the next year or two, but really we  
19 need long-term investment and I think that'll become clear.

20 But also part of the DOE conversation is we want  
21 them to give us the flexibility to weave in the federal  
22 monies into those same programs in a seamless way. Which  
23 doesn't just happen, that really has to be advocated for to  
24 get DOE to understand that that's really in their own best  
25 interest to make these programs effective.

1           So anyway lots going on, but I just wanted to  
2 call out the staff at the two divisions working on  
3 equitable building decarb. To just acknowledge all the  
4 great effort, and just vision, and lots of good  
5 brainstorming, great new staff and existing staff, that's  
6 working well together.

7           So with that I'll wrap my comments. Thanks.

8           CHAIR HOCHSCHILD: Thank you. I would second  
9 those comments with respect to the staff working incredibly  
10 hard. Thank you.

11           Vice Chair Gunda.

12           VICE CHAIR GUNDA: Yeah, thank you Chair. I'm  
13 going to go through just the three buckets of issues. And  
14 I want to make sure the rest of the Commissioners in the  
15 dais are tracking these.

16           So just on the reliability, we restarted our  
17 weekly principals' meetings. I mean, this is across CPUC,  
18 CAISO CEC, we meet once a week to just track ongoing the  
19 summer outlook and what we're doing and making sure we're  
20 resolving issues.

21           A few important pieces: there are three reports  
22 that dropped in the last week that are important for you to  
23 take note. So the Joint Agency Reliability Report. This  
24 was a requirement through SB-846 and 205, kind of setting  
25 the stage of the next 10 years. How everything's looking,

1 and providing some updates on the buildouts the barriers,  
2 all sorts of issues. It's a little bit of a longer  
3 timeframe, but also looking back on what happened last year  
4 and the lessons learned.

5           So it is a pretty big report. It's, I think it's  
6 closing on 100 pages, but I think it will be -- I would  
7 encourage staff briefing you on that. And making sure that  
8 you have visibility on that.

9           The other big piece is the CERIP report, or the  
10 Clean Energy Reliability Investment Plan. That's the  
11 report for public comment right now. It will be finalized  
12 on, and hopefully posted by February 24th, to be then  
13 considered for the second business meeting on the 28th.  
14 This is the billion dollar investment proposal from the CEC  
15 on how we might want to spend that to accelerate the clean  
16 energy reliability.

17           And the last one is the -- it posted yesterday.  
18 It's the Diablo Canyon power plant prudence report.  
19 (phonetic) There was a staff report that was published.  
20 And you know, just arguing for staffs' recommendation on  
21 keeping the extension process going on, based on not the  
22 procurement, how much we procured, I think we have plenty  
23 of procurement authorized in California. It really comes  
24 to can we build it? How fast can we build it? And given  
25 that we have a number of resources retiring in the midterm

1 it really puts pressure between '23-'24 and '28 timeframe.

2           And there's a lot of effort to create  
3 alternatives to Diablo as requested in the 846, but for  
4 them to take off it's going to take some time. So that's  
5 the synopsis of that. If you haven't gotten a briefing on  
6 that I really would encourage you, because that would be a  
7 big vote. And I would expect a lot of public comment and  
8 thinking through that.

9           Given how big these are I just want to recognize  
10 a few staff. David Erne, Kristen Widdifield, Liz Gill from  
11 our office, Ben Sinclor (phonetic) and Drew from the  
12 Executive Office on just shepherding the movement of these  
13 reports. I mean, just there was like three broad reports  
14 in less than two months. And the team has done phenomenal  
15 work in making them land so.

16           And also on the other front is the funding for  
17 DEBA and DSGS. We are contemplating some innovative ideas  
18 for 2023. Specifically, Commissioner Monahan for you we  
19 are thinking about a challenge grant for 2023 timeframe.  
20 It could be a pretty good opportunity for VGI, VTG, you  
21 know, so it -- we should consider discussing in a bigger  
22 family way how to potentially have industry think about and  
23 encourage industry to submit some ideas.

24           The second big theme is the load shift goal. The  
25 next one that's coming online is in the June deadline of

1 setting up a load shift goal for the State of California.  
2 So Erik Lyon in our office is taking point on crafting  
3 that, but it's pretty big deal. It's a humongous deal. I  
4 think it intersects the Load Management Standards and  
5 really has an opportunity to leverage that on the demand  
6 modifying side. And then really, how do we see the supply  
7 side and the emergency side. Kind of how do you put that  
8 together into one big bucket.

9           And given the enormous amount of transportation  
10 electrification, building electrification, and industrial  
11 electrification how do we imagine future rate programs that  
12 can really infuse load flexibility? And I think CalFUSE is  
13 an incredible opportunity from PUC. And how do we leverage  
14 that (indiscernible)? And I know you've been working very  
15 carefully with that, Commissioner McAllister.

16           So I just wanted to land with you. You know, I  
17 requested Erik, to meet with all of you on a very regular  
18 basis to make sure that you really are in sync with the  
19 framing of it. Because it's -- we need to get PUC kind of  
20 buy into that broader framework, but also CAISO, CARB,  
21 everybody intersects on that. And then how do we best do  
22 that? And -- go ahead.

23           COMMISSIONER MCALLISTER: Can I ask a quick  
24 question?

25           VICE CHAIR GUNDA: Yeah.



1                   COMMISSIONER MCALLISTER: So yeah, I agree.  
2 There's a ton of interesting stuff, as you know, going on  
3 at the PUC. They tend to be I think a little more siloed  
4 than as just by the nature of their quasi-judicial  
5 activities. Would you have any sort of ideas about how we  
6 make that effort relevant for their sort of rethink of  
7 their ratemaking. Which, you know, Commissioner -- with  
8 President Reynolds and Commissioner Houck and others, I  
9 think all across the PUC are interested in that. And  
10 working to frame that kind of as we speak. So any thoughts  
11 or coordination with them so far?

12                   VICE CHAIR GUNDA: Yeah, absolutely. I think  
13 that's an excellent question. And I think there are two  
14 elements that we're thinking. One is to stand up some sort  
15 of a working group, to really raise what's in our control,  
16 what's in PUC's control and how can we support that? So  
17 that's one element. And two, we are considering  
18 potentially an en banc for load flexibility. So kind of  
19 like really raise to a 30,000 foot level, what are the  
20 ideas that we want to put on the table?

21                   And I think I, Commissioner McAllister, standing  
22 with your kind of mentorship for me, I really do want to  
23 stay in that lane of CEC has a wonderful opportunity to be  
24 that ideation. You know, how do we put ideas on the table  
25 for consideration by the PUC?

1                   COMMISSIONER MCALLISTER: Great, totally on  
2 board. And, you know, we also are making a lot of progress  
3 lately on the Flexible Demand Appliance Standards. And so  
4 that's going to produce some interesting conversations that  
5 some of which may be transferable. Like sort of the  
6 technology, the nuts and bolts of how communications and  
7 automation actually happens in the real world I think.

8                   And then on the vehicles front there's a robust  
9 and different conversation happening that I'm less in tune  
10 with, but kind of just aware. So those -- the finding  
11 pragmatic paths actually, you know, get hardware out there  
12 that's going to actually work I think is -- you know, we  
13 should all keep that in mind. And I think we're in a great  
14 leadership position potentially there.

15                  VICE CHAIR GUNDA: So one piece I just kind of  
16 pointed, opportunity here, given the money we have from  
17 DEBA and DSGS, right? So it really is a unique moment for  
18 us to say, here's the 2045, 2035 vision of what demand  
19 flexibility or future of demand could look like, right?  
20 Through your kind of leadership, we have the LMS plus  
21 CalFUSE or whatever that might become, a redesign, to  
22 really modify the demand modifier, right? How do we  
23 maximize that? Yeah, how do we maximize that?

24                  And then once we maximize that -- and I think I  
25 saw Ken earlier in the audience -- Ken is like, really

1 continues to advocate for efficiency. You know, just like  
2 between efficiency and, and rate design and automation and  
3 standards, how do we really maximize the demand flexibility  
4 side on the demand side.

5           And then if you look at the current outyears  
6 projections, we're talking about potentially 10,000  
7 megawatts of shortfall, right? In needle peaks, right?  
8 Even if we really did plan for our standard. So if that  
9 could be cut out, you know, by half through rate design and  
10 demand flexibility and efficiency, then that 5,000  
11 megawatts could still come from demand side, but on the  
12 supply side, right? Through either RA or emergency  
13 programs. I think that's the vision on how do we  
14 integrate?

15           So then how do you stitch between these two  
16 places, where we are today and our vision? How can we use  
17 the DEBA money for gadgets? And how do we use the DSGS  
18 money for potentially dealing with, you know, some of the  
19 demand charges, for example, that curtails the innovation  
20 and allow for some pilot programs. That's kind of where we  
21 are.

22           CHAIR HOCHSCHILD: Yes, great. And I mean the  
23 CAISO is sort of listening like never before, I think, to  
24 these aggregated -- wanting these aggregated demand side  
25 solutions, but they have to be real. And so we've just got

1 to make that happen.

2 VICE CHAIR GUNDA: So I want to just hit my third  
3 party quickly.

4 CHAIR HOCHSCHILD: Great, thanks.

5 VICE CHAIR GUNDA: Thank you. So we have been  
6 through the SB 100 process, so we have an SB 100 report,  
7 and we used to have an SB 100 implementation principles  
8 meetings, but now we are combined given the new  
9 arrangements.

10 So within that context, we had been working on  
11 the resource and transmission planning MOU with CAISO, CPUC  
12 and CEC. In the past CAISO and CPUC had were a part of a  
13 MOU in 2013. And CEC was not really -- our products were  
14 not really a part of the overall MOU. Thanks to leadership  
15 of Neil Miller from CAISO and Elliott, you know, his for  
16 his vision.

17 Staff have worked on the re-crafting and signing  
18 that MOU. And so now the SB 100 elements could really  
19 become a part of the policy scenarios for transmission  
20 planning. So it's a pretty huge deal. Especially given  
21 how slowly we all move, and it's a pretty big deal.

22 I want to really thank the Chair for his  
23 leadership and, you know, Commissioner Douglas and  
24 Commissioner Vaccaro in their previous roles on making that  
25 happen. Again, a big thanks to Liz on the team, Heidi

91

1 Javanbakht, Erica Brand, Eli Harland, Enda Maguere.  
2 (phonetic) And also from PUC Sean Simon, Nathan Varsitch  
3 and Caroline Mislanka. (phonetic) I mean they -- it's like  
4 all hands on crafting the MOU. So a big deal.

5 CHAIR HOCHSCHILD: Well, congratulations, and  
6 thank you for all the work on the many reports you guys  
7 have been blitzing. So well done.

8 Commissioner Monahan.

9 COMMISSIONER MONAHAN: I feel like I'm still  
10 trying to absorb what Vice Chair Gunda just said.

11 Well, I want to say I'm really looking forward  
12 actually to working with you, Vice Chair, on the IEPR. And  
13 I think it's -- this opportunity -- actually I don't want  
14 to call it the IEPR anymore, because it's a terrible  
15 acronym. And just call it policy report or energy policy  
16 report, but I'm hoping we can move away from these acronyms  
17 that don't say anything.

18 And I do feel like this is this moment where we  
19 have all the agencies aligned that we need to move more  
20 swiftly to deploy clean energy resources on the grid. And  
21 we need to make sure that we're attentive to rate payer  
22 impacts, very laser focused on that. So I'm just really  
23 excited to think about innovative ways that we can get  
24 information beyond our workshop process. And I'm going to  
25 be like looking to all of you, to encourage everybody to

1 put like ideas into the hopper that we can then evaluate,  
2 whether they be through IEPR workshops or other mechanisms,  
3 to be more just creative and nimble and swift in  
4 identifying potential solutions.

5 Move away from sort of the -- I don't want to say  
6 -- we want to be transparent in public, but we also don't  
7 want to create unnecessary bureaucracy. And so just trying  
8 to figure out ways to make our workshops more dynamic and  
9 faster paced and bring in other agencies as we do it. So  
10 and I look forward to working with the Chair actually on  
11 the articulation, sort of the more executive summary piece  
12 of this communications work.

13 So today Federal NEVI got announced, which is the  
14 National Electric Vehicle Infrastructure monies. And lots  
15 of different cool announcements on the business side of the  
16 equation, different partnerships with EVgo and General  
17 Motors and Electrify America, and Tesla opening up some of  
18 their network to the public as well. So there's just a lot  
19 of exciting collaboration that we hope to continue with the  
20 federal government and within the state as well.

21 But I'm meeting regularly now with the head of  
22 the Joint Office to talk about data. And how can we work  
23 with each other, and how do we collect good data on where  
24 chargers are and whether they're working and how they're  
25 working. So I'm excited that we have a partner in the Feds

1 that wants to work with California.

2 A big priority for me, and the Chair, and Fuels  
3 and Transportation Division is getting monies for the Clean  
4 Transportation Program reauthorized. So that was in the  
5 budget. There's two policy bills out there. There's just  
6 a huge body of work around making sure that we have a  
7 consistent source of funding. So this is go time. The  
8 program expires at the end of 2023. If we don't do it now,  
9 it won't happen.

10 We did have a Clean Transportation Program  
11 Retreat with all the branch managers at my house. It was a  
12 lot of fun, and Drew was there and others. That really  
13 helped I think, to solidify an agenda for this year, and a  
14 work plan that I think we all feel good and excited about.

15 I did a trip to the Salton Sea with the Chair and  
16 Commissioner Gallardo, but I'm thinking that they're going  
17 to talk about that so I won't go there. There's been a lot  
18 of just talking events: Bloomberg New Energy Finance, EV  
19 Charging Infrastructure West, long duration energy storage  
20 event that was organized by a Japanese government agency  
21 that specializes in R&D in prep for the trade mission. But  
22 I'll be accompanying the Chair, and sadly not our new  
23 Commissioner, but with our CCL Linda Barrera.

24 And I think that's it for the big stuff.

25 CHAIR HOCHSHCILD: Commissioner Gallardo.

1 COMMISSIONER MONAHAN: Mine will be --

2 CHAIR HOCHSCHILD: In your three hours of being a  
3 Commissioner. (Laughs.)

4 COMMISSIONER MONAHAN: Exactly, it'll be very  
5 brief.

6 Well first, Commissioner Monahan, I'm really  
7 excited to hear you talk about the Integrated Energy Policy  
8 Report. A lot of potential changes there and I think that  
9 will be helpful.

10 I had a wonderful experience working with Vice  
11 Chair Gunda on the 2022 Integrated Energy Policy Report,  
12 and all the other staff, and it's a tremendous experience.  
13 And we did find that the engagement we did at the local  
14 level, you know, with the communities, even going into the  
15 homes of residents and whatnot, was really valuable. So  
16 I'm hoping that that'll continue to be part of this  
17 process.

18 So I am really eager to just get prepared. And  
19 to be Commissioner. I haven't had a chance to meet with  
20 staff yet, and I will get those briefings and just, you  
21 know, get ready for this big job I have ahead of me.

22 I am looking forward to an activity that I'm  
23 having that's basically -- I think it might be my first  
24 activity aside from this business meeting as Commissioner,  
25 at the USC Schwarzenegger Institute. We're going to be



1 talking about Lithium Valley. They're very excited about  
2 the infrastructure and the potential for what we can do in  
3 that region. So there'll be a lot of leaders there,  
4 including former Governor Schwarzenegger, and I'll be there  
5 with Chair Hochschild. So I'm really excited about that  
6 opportunity, and then all the other areas that I'll be  
7 leading here.

8           So I just wanted to mention that. And I'll turn  
9 it over to you, Chair.

10           CHAIR HOCHSCHILD: Great. Well, let's see. I  
11 wanted to begin by just welcoming a new member of my team  
12 who's not here in person, but will join us next time, is  
13 Nancy Ander who is fantastic. She is a longtime veteran of  
14 the energy world, was at the CEC for 17 years, worked very  
15 closely with Laurie ten Hope, stood up the PEER Program,  
16 worked with a number of us: Commissioner McAllister, Vice  
17 Chair Gunda, knows codes that worked at Edison for a long  
18 time. She's going to be joining as a retired annuitant. I  
19 just wanted to really highlight the benefits of that  
20 program.

21           I think -- and DGS -- thank you, Commissioner.  
22 She was the number two at DGS. So the building we're in  
23 now is in a contract for 100 percent clean energy, because  
24 of the work that she did. And across the whole fleet  
25 including the new the new headquarters.

1           So I do want to just highlight that program,  
2 which I think is wonderful. And it lets people with great  
3 talent, and expertise, come back in a part-time capacity  
4 and contribute. And I think it's a really smart design, so  
5 whoever envisioned the retired annuitant program, I would  
6 like to extend my thanks.

7           And she'll be focusing initially just to support  
8 some efforts Commissioner McAllister and I are engaging on  
9 to better support compliance with the Code that the Energy  
10 Commission staff worked so hard to create on Title 24. But  
11 there'll be some other projects as well.

12           I did want to share with my colleagues, I hope to  
13 finalize the new BK Assignments list, ideally even today.  
14 We're going to just make a few tweaks to the last version  
15 of that and get that out and circulated.

16           I had a great meeting yesterday with Liz Klein,  
17 who's the new Director of the Bureau of Ocean Energy  
18 Management, BOEM. One thing they were very eager to do is  
19 to try to get the second lease sale for offshore wind  
20 completed before the end of President Biden's first term.  
21 So she's newly in this role although very, very seasoned,  
22 and I think is going to be a great partner. We had a  
23 really constructive meeting with her.

24           We also are going to be hosting here in  
25 Sacramento, Spikes symposium, which will be in the CNRA

1 auditorium, focused on offshore wind the day before there's  
2 a big offshore wind industry conference. So a lot of the  
3 key stakeholders will be in town. That's in early May, and  
4 I welcome everyone to join that. Our symposium will be  
5 free and open to the public. I believe that's May 8th if I'm  
6 remembering correctly.

7 I also wanted to say I'm just really looking  
8 forward to going with all of you to what will be the very  
9 first tribal en banc meeting we've ever done at the Energy  
10 Commission in close collaboration with our partners at the  
11 Public Utilities Commission. We're going to go up to the  
12 North Coast and do consultations with a number of the  
13 tribes. We will be adopting a resolution around tribal  
14 energy sovereignty, engaging with the community up there.  
15 The tribal energy micro grids will be funded, including the  
16 Blue Lake Rancheria. And then seeing some of the  
17 remarkable work that's been led by tribes out there.

18 I'm really excited, but I just wanted to  
19 especially acknowledge our wonderful tribal liaison,  
20 Katrina Leni-Konig who's worked really hard, along with  
21 many others, to make that visit possible. I think this is  
22 one of the features of our work I'm most proud of is the  
23 tribal engagement. Again, we've funded eight tribal  
24 microgrids. We will soon do the ninth. And we have a very  
25 big proposal into DOE, \$250 million proposal with match

1 money, it'll be half a billion dollars for tribal energy  
2 sovereignty and micro grids around the state.

3           We have more Native American tribes in the State  
4 of California than any other state in the country; about  
5 110 federally recognized and another, roughly 50 state  
6 recognized tribes. And this engagement is just a really  
7 important and exciting part of the work. And look forward  
8 very much to partnering with the tribes going forward on  
9 all of our priorities.

10           I did just again want to highlight the Tesla  
11 charger network announcement, which was this morning. That  
12 is opening up that charging network across the country and  
13 in many segments, and that's really valuable. That's the  
14 largest fast charger network in the country by far. I  
15 think something like 60 percent of the fast chargers sold  
16 today are Tesla. And so that is something that's going to  
17 really accelerate EV adoption, which is what we need.

18           And then finally I want to just highlight we had  
19 a banner year with EV adoption last year. Q4 adoption was  
20 almost 23 percent of new vehicle sales. That really  
21 doubled basically what it was a year ago. For the year, I  
22 think we averaged almost 19 percent. And that's really a  
23 great tribute to all the hard work of everybody at the  
24 Energy Commission who has been working on that, and our  
25 sister agency at CARB. And our most important -- this is

1 where like industrial and climate policy are all woven  
2 together. Because as we build this out, it's also creating  
3 a lot of new jobs and investment.

4           And So I just wanted to highlight that. That's  
5 like -- You know, this stuff is -- was dismissed as fantasy  
6 not too long ago. And, you know, we will soon get to 25  
7 percent, and then 50 percent, and then 75 percent, and then  
8 100 percent. And that's going to happen. We're on that  
9 path. There was a big article in "The New York Times" just  
10 two days ago which said this is the year to expect EV  
11 prices could actually match, and then go below internal  
12 combustion engine vehicles, which is an incredible  
13 milestone. And that only happens with a very focused set  
14 of policies that get industries like electric vehicles to  
15 scale. So I just want to remark, we're really tracking  
16 well.

17           And with that, I think those were all my  
18 comments. So we'll turn now to Item 9, the Executive  
19 Director's report.

20           MR. BOHAN: Thank you, Chair and Commissioners.  
21 I've got a bunch of announcements, but I'll make them very  
22 quick. First, I just want to formally congratulate  
23 Commissioner Gallardo. I think I can confidently speak on  
24 behalf of all 700 of us, we look forward to serving you to  
25 the best of our abilities in the coming years. So

1 congratulations.

2           A couple of personnel announcements. Susan  
3 Butler joined our office as a retired annuitant. You will  
4 be seeing and hearing from her in various ways, helping  
5 out. And Gaylene, as you all know, is just incredibly  
6 capable, but she needs a little help. So Susan has already  
7 jumped in and is being helpful.

8           Victoria is going to move to be our full time  
9 travel coordinator. So we're going to need to backfill  
10 behind her, but now that will be conducted by Victoria.

11           Lisa Negri after eight years is leaving us. She  
12 built a powerhouse unit in our audits shop from really she  
13 started with very, very little. So we're sorry to see her  
14 go, but we will be announcing at the end of the month our  
15 successor coming from the Department of Finance. We're  
16 very, very excited about her, but we will miss Lisa.

17           And also Linda Spiegel after three plus decades,  
18 she's hanging up the cleats. And she's just been an  
19 incredibly capable and trustworthy partner for the last  
20 couple of years we've worked together and for many years  
21 before that, so sorry to see her go.

22           And both of them do not like fanfare and  
23 attention drawn to them, and we will try to respect that.  
24 But we're going to have a little more to share in a future  
25 business meeting, but I wanted to alert you to those two

1 things.

2           Two other things: Fountain Wind. Last week I  
3 signed a letter to the developer of this wind project up in  
4 the north part of the state. And what the letter said is  
5 that their application is incomplete. We spelled out  
6 precisely what they need to do to become complete. And we  
7 will work with them very closely as we go forward. And we  
8 will do this on a flow basis. So if they send us  
9 something, and we can look at it quickly, check that box.  
10 There's about 17 categories they need to finalize. We will  
11 keep working with them so that can happen as quickly as  
12 possible.

13           And then finally, we have a second business  
14 meeting this month on February 28th. And we have a couple  
15 of really big items with the report that the Vice Chair  
16 referred to, and the Diablo Canyon prudence report, as well  
17 as AB 525 offshore wind. Thank you.

18           CHAIR HOCHSCHILD: Yeah, Vice Chair?

19           VICE CHAIR GUNDA: Drew, thank you for incredible  
20 leadership, especially the amount of work you have been  
21 shepherding over the last few months. Could you please  
22 comment on our engagement on the petroleum side?

23           MR. BOHAN: Certainly. We've been working on  
24 petroleum issues for a long time. And recently these  
25 issues have come to the fore, because of the very

1 protracted increased prices this year starting with the  
2 invasion of Ukraine. But subsequent to that, there have  
3 been additional price spikes throughout the year. And so  
4 this has gotten the attention of the Governor and the  
5 Legislature and others. I testified at the Select  
6 Committee Hearing this summer, where they inquired into  
7 this issue. And then a couple of months later, we had the  
8 most significant spike we've seen in early October, and the  
9 largest delta between the price Californians pay and what  
10 the rest of the country pays. That occurred on October  
11 4th.

12 We will be appearing, the Energy Commission will,  
13 next Wednesday, a week from today at a Senate hearing where  
14 we expect there'll be as many as 18 members of this  
15 committee that will attend. And we will present them with  
16 an overview of what we've learned. And some of what we are  
17 anticipating that is in SB X12, a bill that was introduced  
18 on December 5th by Senator Skinner. And we hope to  
19 illuminate that conversation and expect a very engaged  
20 Legislature.

21 CHAIR HOCHSCHILD: Is that all your remarks?

22 Okay.

23 We'll turn now to Item 10, Public Advisor's  
24 Report.

25 MS. BADIE: Good morning, this is Mona Badie, the



1 Public Advisor. I'd also like to congratulate Commissioner  
2 Gallardo, and I look forward to working with her in this  
3 new role.

4 And with that, I would like to move on. For this  
5 agenda we have a final open public comment period. And if  
6 you are in the room, you can approach the podium to make a  
7 comment. If you are on Zoom, please raise your hand. And  
8 if you're on phone, please raise your hand by pressing \*9.

9 We do not have any commenters. So back to you,  
10 Chair.

11 CHAIR HOCHSCHILD: Okay. And just as I  
12 mentioned, so going forward we will do public comment at  
13 the beginning and there won't be two. This was just a  
14 change we decided to make. So thank you for that.

15 And we'll turn now to Item 12, Chief Counsel's  
16 Report.

17 MS. BARRERA: Good afternoon, Chair and  
18 Commissioners. I want to ask the court reporter to forgive  
19 me.

20 [Announcement made in Spanish then English] What  
21 I said is, "Congratulations, your appointment really and  
22 truly represents the diversity in California. And I'm  
23 extremely excited and congratulations again." And I also  
24 want to add that when the Chair mentioned is that  
25 everything you touch gets better, and I want to add that

1 that I truly agree. But when I first met you, after  
2 working with you, my first thought, wow she has -- her  
3 emotional intelligence is really, really high. And I  
4 wanted to share that with you, because that's one of the  
5 qualities that I truly admire from you, of you.

6 So thank you so much and congratulations. And I  
7 have no other report. Thanks.

8 CHAIR HOCHSCHILD: That was the best report of  
9 all.

10 MS. BARRERA: Got you.

11 CHAIR HOCHSCHILD: All right, we are adjourned.  
12 Thanks, everyone.

13 (The Business Meeting adjourned at 12:17 p.m.)  
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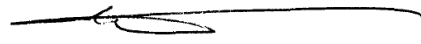
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MARTHA L. NELSON, CERT\*\*367