

**DOCKETED**

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BUSINESS MEETING

BEFORE THE

CALIFORNIA ENERGY COMMISSION

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

WEDNESDAY, AUGUST 14, 2024

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

In-person at:

California Natural Resources Agency Building  
 715 P Street  
 First Floor Auditorium  
 Sacramento, California 95814  
 (Wheelchair Accessible)

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. Commissioners may attend remotely in accordance with Government Code section 11123.2(j).

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 two minutes or less per person.

Please visit the CEC Business Meeting web page for more information and materials at <https://www.energy.ca.gov/proceedings/business-meetings>.

Reported by:  
 M. Nelson

APPEARANCES (\*Present via Zoom)

Commissioners

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

Staff Present:

Drew Bohan, Executive Director  
Lisa DeCarlo, Acting Chief Counsel  
Jason Harville, Director of Enterprise Data and Analytics,  
Enterprise Data and Analytics Office  
Quentin Gee, Manager, Energy Assessments Division, Advanced  
Electrification Analysis Branch  
Brian McCullough, Energy Assessments Division, Reliability  
Analysis Branch  
Peter Strait, Manager, Efficiency Division, Appliance  
Efficiency Branch  
Myoung-Ae Jones, Energy Commission Specialist II, Fuels and  
Transportation Division  
Ian Baird, Energy Commission Specialist, Fuels and  
Transportation Division  
Vivian Nguyen, Energy Analyst, Fuels and Transportation  
Division, Hydrogen Refueling Infrastructure Unit  
Esther Odufuwa, Air Pollution Specialist, Fuels and  
Transportation Division, Commercial and Industrial ZEV  
Technologies and Infrastructure Branch  
Marc Perry, Energy Commission Specialist I, Fuels and  
Transportation Division, Commercial and Industrial ZEV  
Technologies and Infrastructure Branch  
Felix Villanueva, Utilities Engineer, Building  
Decarbonization Unit, Technology Innovation and  
Entrepreneurship Branch, Energy Research and Development  
Division  
Christian Fredericks, Energy Research and Development  
Division, Industrial Carbon Management Branch  
Pam Doughman, REDDI Division

Public Advisor:

Mona Badie

Also Present:

Ryan Briscoe Young  
Sarah Brady, Office of Governmental and International  
Affairs  
Robert Chun, Advisor to Chair Hochschild

Public Comment: (\*Present via Zoom)

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a. Pursuant to Government Code section 11126(a)(1), the CEC may adjourn to closed session with its legal counsel to consider the appointment, employment, evaluation of performance, or dismissal of a public employee or to hear complaints or charges brought against that employee by another person or employee.	
b. Pursuant to Government Code section 11126(e)(1), the CEC may adjourn to closed session with its legal counsel to discuss the following pending litigation:	
i. Shasta County and Pit River Tribe, et al. vs. California Energy Commission (Shasta County Superior Court, Case No. 23CV-0203737).	
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1 P R O C E E D I N G S

2 AUGUST 14, 2024

10:04 a.m.

3 (Start of Introductory Video.)

4 Welcome to the California Energy Commission  
5 Business Meeting. Closed captioning via Zoom is available  
6 for today's meeting. Attendees can use this feature by  
7 clicking "CEC Closed Caption" or "Live Transcript" and then  
8 selecting either "Show Subtitle" or "View Full Transcript."

9 You can find the agenda for today's meeting,  
10 presentation materials, and other links on the Business  
11 Meeting event page. A Zoom recording of today's Business  
12 Meeting will also be made available on the event page.  
13 Please visit [energy.ca.gov/proceedings/business-meetings](http://energy.ca.gov/proceedings/business-meetings) to  
14 find the event page for this Business Meeting.

15 Approved orders, resolutions and court reporter  
16 transcripts will also be made available in this year's CEC  
17 Business Meeting docket.

18 The CEC welcomes public comment at its Business  
19 Meetings. To ensure the orderly and fair conduct of  
20 business, public comments will be limited as announced and  
21 a timer will be shown on the screen. To make a comment,  
22 please follow the instructions provided by the Public  
23 Advisor's Office during the meeting. We ask that all  
24 commenters spell their name and state any affiliation for  
25 the record before making their comment.

1 Welcome to the California Energy Commission's  
2 Business Meeting. The meeting will now begin.

3 (End of Introductory Video.)

4 CHAIR HOCHSCHILD: Good morning, friends, and  
5 welcome. I'm David Hochschild, Chair of the Energy  
6 Commission. Today is August 14th. I call this meeting to  
7 order.

8 Joining me are Vice Chair Gunda, Commissioner  
9 McAllister, Commissioner Monahan and Commissioner Gallardo.

10 Let's begin by standing for the Pledge of  
11 Allegiance.

12 (Whereupon the Pledge of Allegiance was recited.)

13 CHAIR HOCHSCHILD: So we will begin by taking  
14 Public Comment, then move on to agency announcements.  
15 Madam Public Advisor, do we have any public comment?

16 MS. BADIE: Good morning. My name is Mona Badie.  
17 I am the Public Advisor for the California Energy  
18 Commission.

19 We have several public comment periods here  
20 today. This first one is our open public comment period so  
21 it's for any items not on the agenda and also including  
22 information on non-voting items. There will also be  
23 dedicated public comment periods for the voting items on  
24 the agenda today. If you are speaking on a voting item, we  
25 do kindly request that you reserve your comments for the

1 dedicated public comment period for that item.

2           There's a few ways that you can tell us that  
3 you'd like to comment. If you are in the room with us, we  
4 have a QR Code in the main entrance, and we've got Public  
5 Adviser Office staff ready to assist you with that. We  
6 also take a show of hands. And then on Zoom, you'll use  
7 the raise hand feature on your screen to let us know you'd  
8 like to comment. And if you're joining by phone, you'll  
9 press \*9 to raise your hand.

10           And so we'll start with folks in the room. We  
11 have Claire Zuma. Claire, if you could please approach the  
12 podium. We're asking for comments to be two minutes or  
13 less, and please, spell your name for the record before  
14 beginning your comments.

15           MS. ZUMA: And my name is Claire Zuma, Z-u-m-a.  
16 Zuma is my last name now.

17           I didn't prepare anything, but I want to say very  
18 quickly, I saw some good news, that the Inflation Reduction  
19 Act signs apparently came in, and they're going to allow  
20 that -- the State's going to arrange that, and I think  
21 that's fantastic. And the reason why I looked is because I  
22 have a panel that will likely have to be replaced, and it's  
23 kind of complicated but they gave me -- first contractor  
24 gave me a quote to replace in place, not upgrading a 125-  
25 amp panel. I'm very low income. It kind of makes sense

1 not to do too much by upgrading, because I don't need a lot  
2 of funds. But apparently, the Inflation Reduction Act  
3 funds go for panels that are upgraded to 200 amps and  
4 above.

5 Another complication just to be aware of is that  
6 I bought -- tried to figure out why my panel needs to be  
7 replaced because I've lived there a long time and it's been  
8 a great panel. But it's also one that the State has  
9 recognized as unsafe, and it's because it has aluminum bus  
10 bars in it, and it's worked out fine for me until the last  
11 few years. And then, it -- the breakers started to get  
12 kind of gummy, and the contractor told me that was because  
13 they were sweating. And she showed the heat that's going  
14 on in the panel, and all I could think of was the newer  
15 appliances that I've been using as possibly what caused it.

16 And one of them is a plug-in induction burner,  
17 which I would never expected to do this. But, actually,  
18 yes, because the temperature on that thing can go up really  
19 high. And it says it conforms to UL standards, but it  
20 doesn't have the UL little circle on it so I don't know if  
21 that's a reason. I have had a new dryer, you know, a new  
22 heat pump over the years; so maybe something like that.

23 But anyways, having that somehow -- if it's  
24 possible -- realign so people could actually replace a  
25 panel that's potentially unsafe with the same kind of panel

1 would be good, if there's any way of doing that.

2 Thank you.

3 MS. BADIE: Thank you. And that concludes the  
4 in-person so let's transition over to Zoom.

5 Jim Stewart, I'm going to open your line. If you  
6 can please limit your comments to two minutes or less, and  
7 we've got your name on the screen so no need to spell it  
8 before beginning.

9 MR. STEWART: All right. So I'm Jim Stewart in  
10 Long Beach, living near one of these dirty OTC peaker  
11 plants, Los Alamitos, and we need to shut that down.  
12 There's way too much noxious BOCs and CO2 coming out of  
13 these plants. And you know that when we did SB100, we  
14 didn't think we could make clean energy, 100 percent clean  
15 energy, by 2035. So we put in 2045 -- or Leon did -- and  
16 now, it's possible. So we're calling on you to model how  
17 we can do it so we can get the Legislature to mandate it,  
18 that we can move to the 100 percent clean electricity by  
19 2035 and save us, all of us in the Los Angeles Basin, from  
20 suffering all of these horrible, polluted plants. So go  
21 for it.

22 And, oh, yeah. The other thing you ought to do  
23 is you ought to value the value of the rooftop solar. So I  
24 got solar on my roof, but how is that included modeling?  
25 All it is is it reduces the demand. There's no benefit.

1 But our rooftop solar, and of course, when we get those new  
2 Covid grid batteries going, they're going to be able to  
3 help us clean up this grid, and they've got to value the  
4 benefits of the health. So go for it. Protect our  
5 climate, protect our health.

6 We really appreciate your good work. Thanks a  
7 lot.

8 MS. BADIE: Thank you.

9 Next, we'll hear from Mary Fitzpatrick. I'm  
10 going to open your line now. Please unmute on your end.  
11 We're asking for comments to be two minutes or less.

12 Mary, you may begin. Your line is open.

13 All right. Mary, we're not getting audio feed  
14 from you. I'm going to move on to the next person. If you  
15 want to resolve your audio comments, I'll try you again.

16 Heena Singh, I'm going to open your line. We're  
17 asking for comments to be two minutes or less. And we've  
18 got your name on the screen so no need to spell before  
19 making your comment.

20 MS. SINGH: Hi, can you hear me?

21 MS. BADIE: Yes.

22 MS. SINGH: Great.

23 Good morning, Commissioners. My name is Heena  
24 Singh, and I am an Energy Justice Manager with the  
25 California Environmental Justice Alliance, CEJA. I am

1 representing my organization and over 40,000 community  
2 members who are organizing to clean up fossil fuel problems  
3 across California.

4 Today, we would like to discuss the upcoming  
5 Joint Policy Report required by SB100. The 2025 Joint  
6 Policy Report will be focused on grid reliability, and so  
7 while it's in progress, we want to take the opportunity to  
8 provide some recommendations for your consideration.

9 Number one, we recommend that all future scenario  
10 modeling should assume the retirement of all gas powered  
11 power plants with a prioritization for retiring those in  
12 environmental justice communities first.

13 Two, in order to retire all of these gas power  
14 plants, we need to be able to replace that generating power  
15 with renewable energy. We recommend prioritizing scenarios  
16 with clean distributed energy resources and demand  
17 flexibility to eliminate the reliance on gas power.

18 Three, we recommend modeling a future scenario  
19 that maximizes distributed energy resources and also  
20 includes virtual power plants as a way to reduce demand and  
21 support localized energy solutions.

22 Number four, CEJA was one of the petitioners to  
23 initiate CEC's non-energy benefits proceeding and require  
24 the inclusion of public health and environmental factors  
25 into its decision making. PSE Healthy Energy is currently

1 developing those values for your agency and so we want to  
2 request that the CEC include those non-energy benefit  
3 values into the model.

4           And lastly, we ask that you refrain from using  
5 false solutions, like carbon capture and hydrogen  
6 combustion, in the energy modeling to achieve the clean  
7 energy goals. Time and time again, these combustion  
8 solutions put our communities in harm's way. We need to  
9 ensure the scenario chosen for achieving our 100 percent  
10 clean energy goals will also yield a future where  
11 environmental justice communities are winners in these  
12 plans.

13           We hope you will take our recommendations into  
14 consideration while preparing the (indiscernible).

15           Thank you for your time.

16           MS. BADIE: Thank you.

17           Next, we'll hear from Odette.

18           Odette, if you'd -- I'm going to open your line.  
19 If you'd like to share your last name for the record, that  
20 would be appreciated.

21           MS. MORAN: Hello. Good morning.

22           My name is Odette Moran. It's spelled O-d-e-t-t-  
23 e M-o-r-a-n. And I am a Ventura County resident and  
24 organizer of this cause. And I'm here with the Sierra Club  
25 to discuss your collective SB100 goals for our communities.



1           Over the last few years, I have really started  
2 learning more about energy and its history here in my home  
3 town of Oxnard. And I've gradually become angrier and more  
4 disappointed learning that Oxnard has had to stop liquid  
5 nitrogen terminals and multiple power plants from coming  
6 here to our community. And most recently, last summer, we  
7 tried to stop the extension of the Ormand Beach generating  
8 station along with more OTC power plants. And as we may be  
9 remembered, the decision by the CEC and MORE was to keep  
10 these power plants open.

11           That's why I'm here to say that in this analysis,  
12 it's really important to please include fuel gas plant  
13 retirements in all SB100 scenarios and to really have fully  
14 clean energy, like offshore wind and solar, not  
15 alternatives that will keep fossil fuel companies online,  
16 like hydrogen and carbon capture.

17           And the last thing that I really would love to  
18 see in this analysis is to please include any health impact  
19 analysis for communities. As you know, there's a lot of  
20 communities like Oxnard that have historically faced a lot  
21 of energy-polluting, contaminating projects, and to see  
22 this in this report would be really amazing. And so that's  
23 what I'm here to ask.

24           Thank you so much for your time.

25           MS. BADIE: Thank you.

1           Next we'll hear from Tim Laidman. I'm going to  
2 open your line, Tim. We are asking for comments to be two  
3 minutes or less.

4           When your line is open, you need to unmute at  
5 your end.

6           MR. LAIDMAN: Thank you. My name is Tim Laidman.  
7 That's T-i-m L-a-i-d-m-a-n, from El Cerrito.

8           I'm here today to advance the Sierra Club SB100  
9 goals and to see them included in the Joint Agency Report.  
10 They support the accelerated goal of clean energy by 2035  
11 and gas peaker plant retirement in all SB100 scenarios. As  
12 an electrical engineer, I will focus my comments on DERs,  
13 energy efficiency, demand response, and grid enhancing  
14 technologies.

15           We must maximize DER resources like rooftop  
16 solar, battery storage, front-of-meter resources, and  
17 vehicle-to-grid to supply the energy to match the overall  
18 electrical demand. Virtual power plants need to be  
19 included in the modeling.

20           Recent misguided decisions by the CPAC have  
21 crippled rooftop solar. This must be revitalized  
22 immediately for us to meet energy goals. Rooftop solar  
23 with source and load at the same location is the most  
24 efficient and economical method of generating power and not  
25 requiring excessive infrastructure. Coupling it with

1 battery storage allows shifting of energy to times when the  
2 grid requires it, reducing the need for peaker plants and  
3 more transmission lines. Likewise, front-of-meter  
4 resources on the distribution system and vehicle-to-grid  
5 have the same savings. Reconductering reduces the need for  
6 additional transmission lines and has a far lower cost than  
7 undergrounding, favored by utilities for massive profits.

8 Energy efficiency reduces energy requirements,  
9 and demand response allows load-curve shaping. All reduce  
10 the need for additional energy generation and transmission,  
11 which saves money. We need a transition plan away from  
12 fossil fuels, recognizing the urgency of the climate crisis  
13 and prioritizing justice and equity. And I think the  
14 Sierra Club SB100 goals are all a step in that direction.

15 I thank you for your time.

16 MS. BADIE: Thank you.

17 Next, we will hear from Julia Dowell.

18 Julia, I want to open your line. We're asking  
19 for comments to be two minutes or less.

20 MS. DOWELL: Thank you.

21 Good morning, Commissioners. My name is  
22 Julia Dowell, and I'm a senior campaign organizer with  
23 Sierra Club. Thank you for the opportunity to comment.

24 Sierra Club is pleased that the State has a  
25 strong goal to reach 100 percent clean energy, and we are

1 looking forward to this upcoming SB100 report.

2 I want to take this opportunity to share some of  
3 our top goals for this report. We want to see the state  
4 aim for 100 percent clean energy by 2035. We know the  
5 climate crisis is accelerating, and the faster we  
6 transition away from fossil fuels, the easier it will be to  
7 avoid the worst climate impacts.

8 In the last SB100 process, we only saw gas plant  
9 retirements modeled in one of the scenarios. We need the  
10 Commission to model gas plant retirements in all scenarios  
11 this time around, with a prioritization for retiring gas  
12 plants in environmental justice communities first.

13 We also know that retiring gas plants will  
14 require new clean energy resources to replace them. We  
15 need this report to create a pathway to ensure that new  
16 clean energy resources like offshore wind deliver energy to  
17 load pockets that currently rely on gas plants. We also  
18 want to see this year's report maximize distributed energy  
19 resources like rooftop solar, battery storage, and front-  
20 of-the-meter resources and vehicle-to-grid energy.

21 Additionally, we want the Commission to invest in  
22 energy efficiency and demand response programs. This  
23 report should analyze how these programs can help decrease  
24 the amount of new energy resources needed.

25 Finally, it is vital that we do not rely on false

1 climate solutions like carbon capture and storage and  
2 hydrogen combustion in power plants to reach our clean  
3 energy goals.

4 Thank you for working to create a plan for  
5 California to reach its clean energy goals, and we  
6 encourage the CEC to plan for a transition off of fossil  
7 fuels while prioritizing justice and equity and  
8 acknowledging the urgency of the climate crisis.

9 Thank you so much.

10 MS. BADIE: Thank you.

11 Next we have someone identified as Wilmington  
12 Team. I'm going to open your line. It would be helpful  
13 for our record if you could please state and spell your  
14 name. We are asking for comments to be two minutes or  
15 less.

16 MS. HERNANDEZ: Good morning, everyone. My name  
17 is Ashley Hernandez, A-s-h-l-e-y H-e-r-n-a-n-d-e-z. Thank  
18 you for the opportunity to comment. I'm just here on  
19 behalf of the Wilmington Community with CBE and Regenerate  
20 Coalition to discuss our SB100 goals.

21 We are pleased that the state has such a strong  
22 goal to reach 100 percent clean energy, and we are looking  
23 forward to the next SB100 Joint Agency Report. We strongly  
24 believe that how the State meets this goal is incredibly  
25 important, and so we really want to ensure that the

1 Sierra's SB100 modeling analysis includes no false  
2 solutions, no false climate solutions. As mentioned  
3 earlier, we want to ensure that there is no inclusion of  
4 false solutions like carbon capture technology, storage,  
5 and hydrogen combustion in power plants to reach energy  
6 goals. These solutions only keep these facilities and  
7 industries alive in our neighborhoods, and we can't delay  
8 the energy transition and also the justice that our  
9 communities deserve.

10 I also want to uplift the need of including gas  
11 plant retirements. Obviously, our communities have been  
12 overburdened long enough, and we really want to ensure that  
13 we prioritize retirements in EJ neighborhoods. SB100 is an  
14 opportunity for communities to have justice, where kids are  
15 sliding down slides right next to power plants. And, you  
16 know, we are simply just sick of being sick, and we want to  
17 make sure that promises aren't being broken for us anymore.

18 Thank you all so much for your time. And we look  
19 forward to continuing to work with you all to transition  
20 off of fossil fuels and prioritizing justice and equity in  
21 our neighborhoods.

22 Thank you.

23 MS. BADIE: Thank you.

24 We've got another caller identified as Wilmington  
25 Team. I'm going to open your line. It would be helpful

1 for our record if you could please state and spell your  
2 name. We are asking for comments to be two minutes or  
3 less.

4 JORDAN: My name is Jordan. And I would like to  
5 thank you for giving me the opportunity to comment.

6 I'm here today on behalf of CBE/Regenerate  
7 California Coalition, and I would like to talk to you about  
8 the goals of SB100.

9 What we would like to see is SB100 modeling  
10 analysis to aim for a blueprint that achieves 100 percent  
11 clean energy by 2035, consistent to President Biden goals.  
12 Given the ever-worsening climate crisis, reaching 100  
13 percent clean energy as soon as possible will help avoid  
14 the worse climate impacts. These power plants are not in  
15 the middle of nowhere, but they're near parks, schools,  
16 communities, and the restaurants.

17 Don't prioritize the lives of these industries,  
18 and protect our health and stage goals.

19 Thank you for working on a plan to create for  
20 California to reach its clean energy goals.

21 MS. BADIE: Thank you.

22 Mary Fitzpatrick, if you are still on the line  
23 and you'd like to comment, please raise your hand again.  
24 I'd like to try your line again, if you're still interested  
25 in commenting.

1           Great. All right, Mary. I'm going to open your  
2 line. You'll have to unmute at your end. We're asking for  
3 comments to be two minutes or less.

4           MS. FITZPATRICK: Hello. My name is  
5 Mary Fitzpatrick. I hope you can hear me now. Thank you  
6 for this opportunity to comment at the meeting.

7           We are looking forward to the next SB100 Joint  
8 Agency Report, and we believe that how the CEC meets this  
9 goal is very, very important. We'd like this year's  
10 modeling and analysis to include maximization of DERs, like  
11 rooftop solar, battery storage, front-of-meter resources,  
12 and vehicle-to-grid technology.

13           I also think that grid-enhancing technology holds  
14 a great deal of promise, and investigation of its  
15 possibilities, safety and reliability must be accelerated.

16           Finally, I do not want to see false climate  
17 solutions like so-called renewable natural gas, carbon  
18 capture and storage, and hydrogen combustion in power  
19 plants.

20           Along with the Sierra Club, I celebrate the CEC's  
21 efforts to reach our clean energy goals. We encourage the  
22 CEC to transition off fossil fuels as soon as possible and  
23 prioritize the rights of those in environmental justice  
24 communities.

25           Thank you very much.



1 MS. BADIE: Thank you.

2 Next, we'll hear from Joan Taylor.

3 Joan, I'm going to open your line. We're asking  
4 for comments to be two minutes or less.

5 MS. TAYLOR: Good morning. I'm Joan Taylor, J-o-  
6 a-n T-a-y-l-o-r, regarding the SB100 update.

7 California's electric caused crisis, especially  
8 for those of us in IOU territory. Unless electrical demand  
9 is controlled, utility capital investments to meet growing  
10 demand will increase cost for customers even more. What's  
11 more, they'll constantly be moving goalposts that will  
12 delayed to carbonization goals.

13 In that regards, CEC needs to attend to SB350's  
14 requirement to double additional achievable energy  
15 efficiency. To date, progress towards SB350 isn't being  
16 regularly reported, much less implemented.

17 Specifically, in the SB100 update, customer-side  
18 solar can really be 50 gigawatts, not 30-something. TD  
19 solar is a disruptive technology, doesn't have to be  
20 tethered to wires, and IOU customers' bills are at least  
21 half for wielding that energy that could be generated  
22 locally. And according to CPUC, transmission costs are  
23 rising faster than the energy yield. The ERs, including  
24 customer solar with batteries, should be harnessed to help  
25 retire gas plants in underserved communities and to prevent

1 runaway energy costs that affect us all.

2 Please prioritize DERs in the SB100 board update.

3 Thank you.

4 MS. BADIE: Thank you.

5 Next, we'll hear from Liz Sena.

6 Liz, I'm going to open your line. We're asking  
7 for comments to be two minutes or less.

8 MS. SENA: Can you hear me?

9 MS. BADIE: Yes. Go ahead, please. Thank you.

10 MS. SENA: Great.

11 Good morning Commissioners. My name's Elizabeth  
12 Sena. I'm a resident of Fontana. I'm with the Center for  
13 Community Action and Environmental Justice, in coalition  
14 with the Sierra Club as part of Regenerate California.

15 I want to thank you for the opportunity to  
16 comment and discuss, also, the SB100 goals. We're looking  
17 forward to the next SB100 Joint Agency Report, and we want  
18 to discuss SB100 modeling and analysis to include gas  
19 retirement -- gas plant retirements in all SB100 scenarios  
20 with the prioritization for retiring gas plants especially  
21 in EJ communities.

22 Unfortunately, EJs -- EJ communities are the ones  
23 that have to bear the burden the most, and so it's very  
24 important that we prioritize these changes in a way that is  
25 beneficial to the community. We need to prioritize the

1 communities because for far too long, they have been  
2 forgotten. For far too long, they have been overseen. And  
3 so, energy efficiency and demand response is very -- can  
4 help decrease the amount of new energy resources needed.

5 We really need to get away from false climate  
6 solutions. So please, please, please, do not include  
7 them -- do not include climate solutions like carbon  
8 capture and storage and hydrogen. I'm a strong believer  
9 that we have enough environment agent -- environmental  
10 justice organizations that we can partner. We can show you  
11 other ways to really find true solutions that at the end of  
12 the day prioritize our front-line communities and, you  
13 know, and include those fence-line communities too.

14 So, thank you very much for today. Thank you for  
15 working to create a plan for California to reach its clean  
16 energy goals. We encourage the CEC to plan for a  
17 transition off of fossil fuels with prioritizing justice  
18 and equity and acknowledging the urgency of the climate  
19 process -- crisis.

20 MS. BADIE: Thank you.

21 Next, we're going to hear from David Marrett.

22 David, I'm going to open your line. We're asking  
23 for comments to be two minutes or less.

24 MR. MARRETT: Can you hear me?

25 MS. BADIE: Yes.

1           MR. MARRETT: I'm David Marrett. I've been in  
2 the environmental movement since the first Earth Day. I've  
3 earned a lot of degrees, including a Ph.D. in this field.  
4 I'm here for the Sierra Club. And they had a long list and  
5 I had a long list, and I'm just going to go through the  
6 list in my own, personal, sort of priority.

7           Number one is to accelerate the timeline and aim  
8 for 2035. We can do it if we really want to do it. The  
9 technology is there.

10           The second is something my whole life has been  
11 important, which is energy efficiency. The energy you  
12 don't use has no negative environmental consequences and  
13 demand response.

14           The third thing is to maximize DERs, rooftop,  
15 battery, vehicle-to-grid, especially community scale  
16 microgrids.

17           Next on my list is to retire all gas plants as  
18 soon as possible. The minute you retire a gas plant, the  
19 community around it starts to benefit for their health.

20           Grid enhancements, not expansions. Especially  
21 reconductoring, a new technology that has huge benefits.

22           And never forget the non-energy benefits. And  
23 that's obviously to people -- people's health, but also the  
24 entire environment.

25           Thank you for your time.

1 MS. BADIE: Thank you.

2 Next we'll hear from Faraz Rizvi.

3 I'm going to open your line. We're asking for  
4 comments to be two minutes or less.

5 MR. RIZVI: Can you hear me?

6 MS. BADIE: Yes.

7 MR. RIZVI: Thank you.

8 Faraz Rizvi with APEN, Asian Pacific  
9 Environmental Network. And I just want to say that we'd  
10 like to recognize how -- just how necessary and timely and  
11 urgent this CEC feels SBX1-2 is and overall how you've  
12 embraced the mandate to protect consumers in the context of  
13 existing racial, health, and inequities under SBX1-2.

14 Our members living on the fence line of  
15 refineries are the consumers who feel price gouging the  
16 hardest as they are left behind on gas powered vehicles and  
17 energy transition. But they're also the ones whose health  
18 and wellbeing have been sacrificed for this fossil fuel-  
19 based transportation system, or hit first and worst by the  
20 impacts of the climate crisis.

21 So we commend the CEC staff and leadership for  
22 recognizing how adverse health impacts and higher health  
23 costs are challenges to ensuring a safe supply of  
24 transportation fuels. And we commend the CEC staff and  
25 leadership for emphasizing that it is imperative to

1 acknowledge and consider the public health and safety risk  
2 of prolonged refinery activity and increased production.

3 We believe the CEC must utilize their authority  
4 to bring transparency and accountability to refiner  
5 maintenance by discouraging deferred maintenance and  
6 encouraging regular maintenance. We hope the governor and  
7 legislators will also consider supporting these policy  
8 proposals.

9 At the same time, we wish the CEC had taken the  
10 step -- the next step of dedicating a policy option to  
11 focusing on a guaranteed backstop to secure community  
12 safety as a part of a supply side strategy, a phase-down  
13 plan and a schedule.

14 As refiners make business choices to increase  
15 exports and to draining inventory to ship overseas,  
16 resulting in less room to make CARBOB as it converts to  
17 massive quantities of food crop-based biofuels without any  
18 cap; and as they increase their strict -- steam methane  
19 reformation metered hydrogen, there have to be some limits  
20 and some guardrails. We need the State to intervene.

21 There have been -- have to be some milestones for  
22 reductions and emissions that track refining for in-state  
23 demand so that we can meet both our climate and air quality  
24 goals so that we can transition to safer and, ultimately, a  
25 less costly transportation system in the long run. We

1 cannot prolong refinery activity and risk excessive  
2 production beyond what the U.S. states need.

3 Thank you.

4 MS. BADIE: Thank you.

5 Next we'll hear from Catherine Ronan.

6 Catherine, I'm going to open you line. We're  
7 asking for comments to be two minutes or less.

8 Catherine, your line is open. You'll need to  
9 unmute at your end.

10 MS. RONAN: Sorry.

11 My name is Catherine Ronan. I live in L.A., and  
12 I'm a customer of LADWP.

13 Here in L.A., we're pursuing a goal of 100  
14 percent clean energy by 2035. I hope you will too.

15 I appreciate this incredibly important work  
16 you're doing. It makes so much sense to have guidance and  
17 modeling from the State on how to proceed to reach the 100  
18 percent clean energy goal. Utilities don't always pursue  
19 the most cost-effective or environmentally just paths, and  
20 you play a huge role in getting us onto the best pathways.

21 I personally hope to see an emphasis on low-cost  
22 solutions, like energy efficiency and demand response.  
23 That's especially important here in L.A., where we don't  
24 even have smart meters yet that would allow for time-of-use  
25 rates.

1           Also, please include non-energy benefits, like  
2 environmental and human health impacts, into the modeling.  
3 Gas power plants need to be retired, not only because of  
4 the greenhouse gases they release, but also because their  
5 pollution harms nearby communities, as well as the whole  
6 region's air quality.

7           I hope you won't include false climate solutions  
8 like carbon capture and storage and hydrogen combustion in  
9 power plants to reach our clean energy goals. These  
10 solutions only keep fossil fuel industries online longer  
11 and delay the clean energy we actually need.

12           Thank you.

13           MS. BADIE: Thank you.

14           Next we'll hear from Jennifer Cardenas.

15           I'll open your line, Jennifer. We're asking for  
16 comments to be two minutes or less.

17           MS. CARDENAS: Hello, everyone. My name is  
18 Jennifer Cardenas. Thank you for giving me the opportunity  
19 to speak with you-all. I'm here on behalf of the Sierra  
20 Club to discuss SB100 goals.

21           As you've heard, we would really want this to be  
22 some of the next steps that we see. You've heard from my  
23 community already talking about false climate solutions.  
24 But I want to give you an example.

25           I'm from the Inland Empire. We have communities



1 that are impacted in so many ways that people have to track  
2 air quality every day just to be sure that their children  
3 can go outside to play. Parents have to ensure that their  
4 teachers can carry an inhaler, that the children under  
5 four-years-old, five-years-old, understand what an inhaler  
6 is.

7           It is essential for us to really start talking,  
8 what are the next steps when we talk about gas plant  
9 retirement? And it is essential to understand that we want  
10 to ensure that front-line communities are the ones that you  
11 focus on because the impacts that they're facing are some  
12 of the harshest that we've seen in this location,  
13 especially, not just our front-line communities, but also,  
14 here in San Bernardino, you will see that if you do this by  
15 focusing on retiring those gas plants first, you're going  
16 to make a difference. And that is going to impact the  
17 health across the board.

18           So while it's essential to also focus on false  
19 solutions, please understand that hydrogen combustion is  
20 not something that will help these communities. We want to  
21 ensure that the future is able to breathe.

22           Thank you for your time.

23           MS. BADIE: Thank you.

24           Next we will hear from Cynthia Cannady.

25           Cynthia, I'm going to open your line. We're

1 asking for comments to be two minutes or less.

2 MS. CANNADY: My name is Cynthia Cannady. I am  
3 in Pasadena, California. I am chairperson of Pasadena 100,  
4 which is a coalition of 22 non-profit, non-partisan  
5 organizations that are committed to Pasadena's policy goal  
6 of getting to 100 percent carbon-free electric power by  
7 December 31st, 2030.

8 Our coalition of organizations include the League  
9 of Women Voters, the Audubon Society, the NAACP, Delta  
10 Sigma Theta Sorority, and many other respected  
11 organizations, the Sierra Club for the Angeles Chapter, for  
12 example.

13 I would like to express our great appreciation  
14 for the CEC and for the inspiration that we've gained from  
15 legislative initiatives that push us towards carbon-free  
16 electric power. It hasn't been an easy process for us. I  
17 must say that we've made tremendous progress. Our City  
18 Council in Pasadena, in January of last year, 2023, passed  
19 a Climate Emergency Resolution that adopted -- unanimously,  
20 by the way -- our goal of 100 percent carbon-free electric  
21 power by 2030.

22 I have served on the IRP, the Integrated Resource  
23 Plan, Stakeholders' Technical Advisory Group; that was last  
24 year. And I am currently on the Optimized Strategic Plan  
25 group. We are working very successfully with our utility

1 company, but there is tremendous need for support from the  
2 State.

3 This transition is not easy. We have a big, fat  
4 gas plant, the Glenarm gas plant, that is right next to a  
5 high school and close proximity to other schools. We had a  
6 defective turbine that was relatively new. These gas  
7 plants are noxious, in the short-term sense of risking  
8 leaks, but they are also a real problem, obviously, for the  
9 transition. So we're doing well.

10 Thank you for this initiative.

11 MS. BADIE: Thank you.

12 And that concludes our public comment for Item 1.

13 Back to you, Chair.

14 CHAIR HOCHSCHILD: Thank you so much to all the  
15 members of the public for providing those comments.

16 We turn now to Item 2, Agency Announcements.

17 I do just want to say, you know, while it is true  
18 we still have a long way to go on this journey to 100  
19 percent clean energy and 100 percent transportation, we're  
20 not going to stop until we get there.

21 And I also think it's important to acknowledge  
22 the milestones the State is hitting, which are actually  
23 quite extraordinary. I wanted to share a few of those.

24 Last week, Commissioner Monahan and I visited  
25 Zum, in Oakland, which is the vendor that's doing the

1 school buses. So Oakland is the first city in North  
2 America to completely convert its school buses to all-  
3 electric; so 74 EV chargers and buses and they're bringing  
4 kids to school this week in all-electric bus leaps. It's  
5 also, to the best of our knowledge, the largest vehicle-to-  
6 grid system in the world. And so, just such incredible  
7 steps forward there that are a culmination of a lot of work  
8 from a lot of different folks.

9           Similarly, the Caltrain line this week, for the  
10 first time, converted to electric. And I grew up in  
11 San Francisco. It's been a diesel line my whole life. And  
12 to see electric trains and electric school buses actually  
13 happening, manifesting here, we are collectively a post  
14 card from the future for the rest of the country. And if  
15 we can show this stuff works and people love it, you know,  
16 it will spread. And I think that's a lot of what our role  
17 is.

18           I do want also to highlight, we did an event last  
19 week with the governor highlighting the new vehicle sales  
20 were now 25.7 percent of all new vehicle sales in  
21 California being electric, and over 100,000 EV charges. So  
22 good progress there as well.

23           Today, we're going to be considering for approval  
24 \$87 million worth of projects contributing to our state's  
25 economy and driving the innovation sector forward. And I

1 also want to say, for those of you who watched the  
2 Olympics, we saw a lot of medals being passed out.

3 We have our own medal today, and that is  
4 Commissioner Andrew McAllister, who is getting recognized  
5 with a Clean Power Champion Award tonight at 6:00, and I  
6 just want to give him a round of applause for.

7 So just a little bit about Commissioner  
8 McAllister. He, you know, has been our lead on energy  
9 efficiency. There's a ranking that's done by the American  
10 Council for an Energy Efficient Economy. California ranks  
11 number one in efficiency, and it really is the top thing we  
12 need to do before any generation, renewable or otherwise,  
13 is as to reduce energy consumption. And what's been  
14 happening in California on efficiency is nothing less than  
15 extraordinary. Our longest standard, led by Commissioner  
16 McAllister, you know, converting, basically, from  
17 incandescent to LEDs, you know, saves \$3.8 billion a year.  
18 Our (indiscernible) standards, our computer standards, the  
19 tightness of a building, on the mandate for rooftop solar  
20 on all new schools, on all new homes, all new buildings,  
21 these are huge steps forward; and Commissioner McAllister  
22 has been at the center of it.

23 And next month, we're going to be taking up for  
24 consideration another historic step in the journey, you  
25 know, a current that will really advance heat pump

1 technology for water heating, for space heating; and  
2 Commissioner McAllister has just been an incredibly steady  
3 hand at the wheel.

4 And additionally, what he does for us here in the  
5 state, he's been very engaged with other states in helping  
6 propagate these standards elsewhere, chair of the board of  
7 NASEO, as well as internationally, and been phenomenal on  
8 engagement with Mexico, for example. So it's just been an  
9 absolute delight to work with you.

10 And I just want to know if any of my other  
11 colleagues would like to make any comments here.

12 VICE CHAIR GUNDA: Thank you, Chair.

13 I wanted to comment on both -- just kind of  
14 quickly on the comments we heard today and, you know, and  
15 then -- so I think it's -- first of all, to all the  
16 commenters who took the time this morning to kind of speak  
17 your hearts and mind on the importance of the choices we  
18 make as a system. I just wanted to say thank you.

19 Thank you for willing to keep the faith in the  
20 processes and continuing to come to these meetings  
21 tirelessly to take note -- help us take note of the  
22 disproportionate inequities of both the past choices and  
23 continued choices. It is -- everything that was said today  
24 resonates with me in terms of doing right by all of  
25 California, not just, you know, pieces of California, in a

1 clean energy conservation. So thank you for that.

2           And I think -- I just want to acknowledge my  
3 colleagues on the dais and the leadership that we have at  
4 the CEC. We are absolutely committed within the tools we  
5 have to continue to advance equity. And thank you for a  
6 number of meetings we had this last few weeks, but also the  
7 continued interest and willingness and faith to engage with  
8 leadership, with powers they are, to get to the goals that  
9 you seek, even after years of conditions going in the wrong  
10 way, for whatever reason we attribute them to be. We  
11 continue to (indiscernible) the feasibility of the path  
12 choices.

13           So thank you for continuing to put your faith and  
14 putting your voices on the table. So I just wanted to say  
15 that. And want to encourage staff to continue to do what  
16 you do, show up every day and, you know, do the right thing  
17 for not just an organization for a part of California but  
18 for every Californian. And I hear the voices as years and  
19 years of hurt and lack of equity in both process and  
20 choices.

21           So let us do the best we can. And, you know,  
22 hearing the harshness, sometimes the criticisms we hear in  
23 the lens of somebody calling out for help. And we have  
24 some level of influence and some level of authority; and  
25 let's just use whatever we have to do great things as a

1 team.

2 For a second, I just wanted to go my mentor, my  
3 colleague now and a friend, Commissioner McAllister.

4 I'm just -- I think all awards should come to you  
5 over and over. This is just a milestone today, after  
6 receiving an award. What an incredible leader you have  
7 been in not only fostering an important path around  
8 efficiency but data. Data has been something that you've  
9 been working on and (indiscernible) of data. And, you  
10 know, just the wonderful heart you have. We all bring in  
11 our own fears and insecurities to the jobs and roles we do,  
12 but there's always -- you know, you try to lead with  
13 purpose and boldness. So I just commend that, rather than  
14 giving into fears and insecurities in the jobs we do.

15 Thank you, and congratulations.

16 CHAIR HOCHSCHILD: Anything you want to say?

17 The other thing I would -- just wanted to have a  
18 few folks come introduce themselves, and then we'll get to  
19 the rest of the announcements. So if I could have Robert  
20 Chun, Sarah Brady and Ryan Briscoe Young come up.

21 We've been adding some amazing new talent, and  
22 our terrific Deputy Public Advisor unit is here. I forget  
23 the last name, but there's some new folks who've joined  
24 since then.

25 So happy to have you appointed by the governor to



1 this role. I wonder if you could just share a little more  
2 of your background.

3 MR. YOUNG: Thank you, Chair. Good morning,  
4 Commissioners. Ryan Briscoe Young.

5 It's particularly special for me to be serving at  
6 this time. I grew up in Oakland, California, and to see  
7 the largest vehicle-to-grid fleet rollout in my community  
8 has been very special for me and my family. Many people in  
9 my family grew up with asthma and environmental health  
10 impacts; and so, I'm just really delighted to be serving at  
11 this time and with this group of leaders.

12 Thank you for the warm welcome. I come to you  
13 with a background in law and policy. My passion is the  
14 intersection of equity and climate change. And so, I've  
15 served as energy attorney with the Greenlighting Institute.  
16 I've also served with the Department of Economic  
17 Development and Workforce Development with the City and  
18 County of San Francisco. And so, I hope to bring some of  
19 these experiences to bear and support your officers and  
20 your initiatives.

21 CHAIR HOCHSCHILD: Well, we're thrilled to have  
22 you in the role of Deputy Public Advisor. Thank you.

23 Let's go to Sarah, next, then to Robert. And  
24 Sarah's our new head of Office of Government International  
25 Affairs.

1 MS. BRADY: Thank you.

2 Good morning. It's a pleasure to be here at the  
3 CEC now. As a scientist, I think it is an amazing spot to  
4 be at. I'm trained as a chemist but quickly realized that  
5 I was much more interested in the opportunity to take my  
6 scientific expertise and use it more broadly. I had the  
7 opportunity to accept a California Council on Science and  
8 Technology Science Policy Fellowship; so I was placed in  
9 the State Assembly, where I worked for a handful of years  
10 with former Assemblymember Susan Bonilla. That's where I  
11 first had the opportunity to learn about the energy  
12 landscape in Sacramento, the work that California is doing  
13 by staffing the Assembly Energy and Utilities Committee.

14 I then moved over to be in a staff position at  
15 the California Council on Science and Technology to work on  
16 two peer-reviewed reports that were requested by the  
17 Governor's Office on underground natural gas storage and  
18 biomethane. So that's where I first had the opportunity to  
19 work more closely with the Executive Branch. So excited  
20 now to have moved over into the Executive Branch myself and  
21 be able to bring this experience and my scientific  
22 technical thinking to this role.

23 Thank you.

24 CHAIR HOCHSCHILD: For Assembly new advisor,  
25 Robert Chun.

1           RC: Good morning, Commissioners. My name is  
2 Robert Chun. It's an absolute treat to be here.

3           Throughout my career, I've touched on climate  
4 technology, policy, and finance, including stints at Google  
5 X, Energy Impact Partners, and most recently at the  
6 Governor's Office. At the Governor's Office, I was able to  
7 witness first hand some of Commissioner McAllister's  
8 leadership on building electrification.

9           I want to extend my gratitude and thanks to you,  
10 Commissioner.

11           Most recently, I graduated from a Joint JD-MBA  
12 program at Stanford University, again focused on how we  
13 accelerate the energy transition in an effective and  
14 equitable way, and I'm just so delighted to be here at the  
15 Energy Commission and want to thank Chair Hochschild to be  
16 here and to serve the state.

17           So, thank you.

18           CHAIR HOCHSCHILD: Great.

19           And then, the final announcement I just wanted to  
20 lift up is we had a big week with federal money. Eighty-  
21 eight million dollars coming in to support four  
22 (indiscernible) energy projects in the North Post; huge  
23 milestone on California's journey to (indiscernible) tribal  
24 energy sovereignty. I really want to thank the CEC team  
25 that supported that, and all of the tribes who have been

1 just remarkable in their perseverance on this stuff. And a  
2 really, really nice step forward there. As well as 600  
3 million in a great grant which is going to support the grid  
4 upgrades that we need, including advanced conductors and so  
5 forth.

6           You know, a lot of the heart of the strategy here  
7 is really running through the electric grid and extending  
8 the reach and durability and reliability and safety of the  
9 grid, which we need for so much more than we ever did  
10 before. We're adding 1,300 electric vehicles to the roads  
11 in California every day; and that is increasing. And the  
12 grid is going to serve so many more agencies and displace  
13 polluting fossil fuel; so it's great to get that support.

14           I want to especially thank the Biden  
15 Administration for all their partnership on these issues.

16           And with that, I'll go to Commissioner Gallardo.

17           COMMISSIONER GALLARDO: Buenos Dias. Good  
18 morning, everyone.

19           I also wanted to say congratulations to my  
20 partner over here, Commissioner McAllister. We don't get  
21 to team up on too many policy areas, but we are always  
22 trying to figure out how do we advance language access  
23 together. And you've been a great resource to me, as I am  
24 the newest commissioner and trying to settle in and  
25 whatnot. So I appreciate you very much, and I'm so proud

1 of you getting this award. And I'll be there to cheer you  
2 on.

3 I also wanted to give an additional shout out to  
4 someone, actually, who is leaving the Energy Commission,  
5 Erica Brand. Her last day with the Energy Commission is  
6 August 16th. It's coming up. And she's returning to the  
7 Nature Conservancy, where she worked prior to the Energy  
8 Commission. She's going to serve as their associate  
9 director of the California Climate Program. So she'll  
10 still be connected to some of the work we're doing.

11 So I wanted to thank Erica for her service.  
12 She's added a lot of value, including on SB100. She's  
13 helped me on some Joint Agency work, and I know she's been  
14 a great partner to Elizabeth Huber, the director of the  
15 STEP Division.

16 So congratulations to Erica. Thank you so much.  
17 We'll miss you, but I know that you'll have great success.  
18 And I can't wait to hear about it; so hopefully, we'll stay  
19 connected.

20 Thank you.

21 CHAIR HOCHSCHILD: Any other comments?

22 Commissioner Monahan, yeah.

23 COMMISSIONER MONAHAN: Well, first, I just wanted  
24 to reiterate a point made by the Vice Chair, which is to  
25 thank all the public commenters today. And I know this is

1 an issue near and dear to the Vice Chair's heart and to I  
2 think all of ours, as well, is to make this transition to  
3 100 percent clean energy system equitable. And that there  
4 are historic injustices and, I think, decisions that have  
5 been made in the interest of keeping electricity stable  
6 that have led to sort of greater distrust with some. And I  
7 just want to emphasize that we, as an agency, are committed  
8 to making sure that we can -- we're doing all we can to  
9 reach our state goals while doing this equitably and  
10 keeping rates affordable and keeping the lights on.

11 And so, we're balancing all these different  
12 interests, and I think that SB100 report is really this  
13 great opportunity to all of us to develop different  
14 scenarios to map out how we can reach our clean energy  
15 future and do it in a way that's equitable.

16 So just to encourage folks to provide input into  
17 that SB100 process, we are listening, as an agency. And we  
18 welcome feedback.

19 I also want to just -- I won't be able to go to  
20 the award ceremony tonight so I'm going to keep  
21 embarrassing my comrade, Commissioner McAllister, and just  
22 say how -- you know, you keep working, like, head down, all  
23 the time, to make sure that we are doing all we can to  
24 advance efficiency, and it's hard work. And sometimes,  
25 it's not the shiny, pretty object. And yet, it's -- it

1 gets the job done, it saves money, it's the low-hanging  
2 fruit. And you are just always hard at work to make sure  
3 that we are doing all that we can to advance efficiency, to  
4 do it in a -- to do load management as a strategy to reach  
5 our goals and just congratulate you for. And I'm sorry I  
6 won't be there in person to celebrate.

7           And then, the last announcement is just a change  
8 in my office. So one of my advisors, Ben Wonder (spelled  
9 phonetically), is going to be a supervisor in the Grid  
10 Innovation Group in ERDD, and just he's been a wonderful --  
11 he's just been wonderful in all ways. He's like wicked  
12 smart, and he always brings his A game to everything. He  
13 brings a smile. He brings joy. He brings competence, and  
14 he gets the job done. So we're really going to miss him in  
15 my office. And I have a job announcement out right now to  
16 fill his big shoes, and it closes at the end of this week.

17           So I just want to wish Ben well and to thank him  
18 for all he's done for our office and for leading the work  
19 last year on speeding the deployment of clean energy  
20 resources on the grid through our IPER -- well, the IPER at  
21 large, but especially that project.

22           CHAIR HOCHSCHILD: All right.

23           Commissioner McAllister.

24           COMMISSIONER MCALLISTER: Hello. Thank you all.  
25 And congrats to Ben. He's -- I couldn't agree more. He's

1 just a wonderful person and professional and just  
2 incredibly capable. So congrats to him.

3 Thank you all for your comments. As you know,  
4 I'm not that great at being recognized, but I'm looking  
5 forward to tonight. It's really particularly meaningful  
6 just to have so many friends and colleagues in the room.

7 Just kind of an acknowledgment, you know, it's a  
8 moment to pause and just sort of take stock. And for me,  
9 I'm just going to be grateful. That's how I'm feeling  
10 today.

11 To California, really, I mean, what an amazing  
12 state; you know? And I'm an immigrant. I grew up in the  
13 South, and to come to California, where there's just such a  
14 vibrant conversation about every topic under the sun. And,  
15 you know, ever since I took thermodynamics in college, I  
16 knew energy was where I wanted to focus my efforts  
17 professionally. And it's just so much more than a  
18 technical problem; you know. It's not just thermodynamics;  
19 it's a social -- it's a really incredibly complex set of  
20 social problems. And we're just so fortunate in California  
21 to have so many capable people, professionals, you know,  
22 talented individuals, that are bringing their whole self,  
23 their whole heart, to make California, you know, a better  
24 place, but also, an example for others.

25 You know, when I -- early in my career, I came



1 out for graduate school, you know, visited -- applied  
2 sight-unseen. Came out to graduate school at Berkeley and  
3 got to work at LBO with Art Rosenfeld and a whole bunch of  
4 folks up there who are still my closest colleagues, you  
5 know, in many of these issues we work with and we deal  
6 with. And so, it's just been such an enriching part of my  
7 life. And to be in California, just by osmosis, we learn  
8 so much from one another, you know. Whether we're working  
9 closely or not, we just -- there's so much learning that's  
10 happening.

11           And I just want to thank all of you and just, you  
12 know, all of our stakeholders for leaning in, for helping  
13 us be better. You know, there's a lot of power in people  
14 of good faith. When we're together, we all have different  
15 seats, you know. We stand -- you know, where you stand on  
16 a given issue kind of depends on where you sit; you know,  
17 what's your role, what's your perspective, your context,  
18 your culture? And so, we're not always going to agree.  
19 But the only way we solve these problems is by sharing our  
20 opinions respectfully, our views, our information, and  
21 working together, you know? And we all -- there should be  
22 consensus; right? There should be diversity. That's how  
23 we get the better decisions.

24           And so, I just -- through our government and just  
25 my whole professional career -- I've just been able to work

1 with so many just magical people, really, just doing  
2 incredible things. And, you know, right at the top of the  
3 heap are all of you, as my colleagues at the Energy  
4 Commission. So I just really appreciate it. And just --  
5 gratitude is the overwhelming feeling.

6           So thanks very much for your comments. And, you  
7 know, we can stop and pause and sort of appreciate one  
8 another in our work, but we heard the urgency in the  
9 comments this morning and I think we all share it and want  
10 to get to that point where we all know is going to be a  
11 better place. And so, including all Californians is the  
12 only way we get there. So just really appreciate all of  
13 you in the boat rowing together.

14           So thank you.

15           CHAIR HOCHSCHILD: Congratulations, again.

16           We'll move on to the Consent Calendar. We will  
17 not be considering Item 3H. That's been taken off the  
18 agenda.

19           I do know we have a recusal on Item 3C, but  
20 before we get there, let's do public comment on Item 3.

21           MS. BADIE: Thank you, Chair.

22           The CEC welcomes public comment on Item 3 at this  
23 time. If you are joining us in the room, we're asking  
24 folks to use the QR code or do a show of hands; and if  
25 you're on Zoom, you'll use the raise hand feature on your

1 screen, and \*9, if you're joining by phone.

2 So I'm just giving that a moment.

3 Not seeing any raised hands for Item 3 so back to  
4 you, Chair.

5 CHAIR HOCHSCHILD: Okay. Do we have a recusal on  
6 Item 3C?

7 COMMISSIONER MCALLISTER: Yes. Item 3C, I'm  
8 going to recuse myself. I'm on the board of NASEO so I  
9 will step out. I'll let you vote on that item.

10 CHAIR HOCHSCHILD: Any discussion? If not, is  
11 there a motion on Item 3C?

12 VICE CHAIR GUNDA: I move item --

13 CHAIR HOCHSCHILD: Commissioner Gunda moves. Is  
14 there a second?

15 Commissioner Gallardo?

16 COMMISSIONER GALLARDO: I second.

17 CHAIR HOCHSCHILD: All in favor say, "Aye."

18 Vice Chair Gunda?

19 VICE CHAIR GUNDA: Aye.

20 CHAIR HOCHSCHILD: Commissioner Gallardo?

21 COMMISSIONER GALLARDO: Aye.

22 CHAIR HOCHSCHILD: Commissioner Monahan?

23 COMMISSIONER MONAHAN: Aye,

24 CHAIR HOCHSCHILD: And I vote aye as well.

25 That item passes 4 to 0, with Commissioner

1 McAllister abstaining.

2           Could someone get him in here again.

3           We will now take up Items 3A through G, and 3I  
4 through J, in a single vote. Unless there's any  
5 commissioner discussion, is there a motion from  
6 Commissioner Monahan on those items?

7           COMMISSIONER MONAHAN: I move to approve these  
8 items.

9           CHAIR HOCHSCHILD: Is there a second from  
10 Commissioner McAllister?

11           COMMISSIONER MCALLISTER: Second.

12           CHAIR HOCHSCHILD: All in favor, say, "Aye."  
13 Commissioner Monahan?

14           COMMISSIONER MONAHAN: Aye.

15           CHAIR HOCHSCHILD: Commissioner McAllister?

16           COMMISSIONER MCALLISTER: Second -- sorry, aye.

17           CHAIR HOCHSCHILD: Commissioner Gallardo?

18           COMMISSIONER GALLARDO: Aye.

19           CHAIR HOCHSCHILD: And Vice Chair Gunda?

20           VICE CHAIR GUNDA: Aye.

21           CHAIR HOCHSCHILD: And I vote aye as well. Those  
22 items will pass unanimously.

23           We will turn now to Item 4, informational item,  
24 update on data visualization exploration tools.

25           Welcome, Jason.

1           JASON HARVILLE   Good morning, Chair, Vice Chair,  
2 Commissioners.  Congratulations, Commissioner McAllister.

3           I'm Jason Harville, our Director of Enterprise  
4 Data and Analytics.  I lead the Enterprise Data and  
5 Analytics Office, which is responsible for enterprise-level  
6 data infrastructure, management, and governance.

7           I'm here this morning to provide an update on our  
8 data modernization efforts, specifically, on our  
9 implementation of new data visualization and exploration  
10 tools.

11           Next slide, please.

12           New visualization and exploration tools provide  
13 many benefits to Californians.  Those who want to explore  
14 and use our data can now do so through various tools on our  
15 website.  You can also download data directly from these  
16 tools without needing to make data requests and can use the  
17 tools to filter and parse the data prior to downloading.  
18 This gives the public fast, interactive, and detailed  
19 access to Energy Commission data without additional time or  
20 work from Energy Commission staff.

21           Next slide, please.

22           To refresh your memories, Tableau and ArcGIS are  
23 tools for creating interactive data visualizations that can  
24 be hosted through a web browser.  For example, the  
25 screenshot on the right there is from our very popular

1 Tableau visualization on gasoline prices, which allows  
2 users to filter our data across a number of properties and  
3 then view or download whichever subsets of the data they  
4 liked.

5 As we build these tools, we maintain a lengthy  
6 description for each on the data exploration tools page on  
7 our public website. And we're also tracking their  
8 popularity to help measure their value to the public.

9 Next slide, please.

10 This chart shows the number of website views for  
11 our top five data visualizations and the total across all  
12 of our visualizations for both the past quarter and the 12  
13 months preceding it.

14 It's important to note that we can measure how  
15 often the web pages containing these visualizations are  
16 visited, but we can't measure when someone views a full-  
17 screen version of the visualization, which happens off of  
18 our public website. What that means for you-all is that  
19 we're not capturing all of the views, and the numbers you  
20 are seeing up here are certainly an under. So we're  
21 definitely getting more views than we're seeing here.

22 That said, the views here are pretty impressive,  
23 in my opinion. Over the last quarter, dashboards relating  
24 to zero-emission vehicles and gasoline prices have been  
25 very popular, although one of our newer visualizations on

1 energy storage was the most popular in quarter two. In  
2 total, our data exploration tools received approximately  
3 33,000 views in quarter two, and nearly 150,000 views in  
4 the 12 months ending in quarter two.

5 Next slide, please.

6 To the right, you see a screenshot of quarter  
7 two's top visualization, our Energy Storage System Survey.  
8 Please note, this data is updated twice a year, and we're  
9 just about ready for a new update; it's about to happen.  
10 So the data you're seeing right now is accurate as of  
11 April.

12 We've actually made more progress than you see on  
13 the screen now. This visualization tracks location, types,  
14 and capacity of energy storage installations across the  
15 state. Users can review installations on the interactive  
16 map in the lower left there. They can filter and sort by  
17 different categories, different locations, using options on  
18 the right of the visualization, and they can download  
19 whichever data they need, whatever is of interest to them.  
20 Additionally, progress towards our state goal of 52,000  
21 megawatts of storage capacity by 2045 is available at the  
22 top of the visualization at a glance.

23 Next slide.

24 Finally, we have 32 data visualizations and  
25 exploration tools live on the public website, nine under

1 active development, and at least five more that are in some  
2 sort of earlier planning or prototyping stage. Six of  
3 these that are in development right now were also under  
4 development in my last update; so these are very close to  
5 being published.

6           If you add all that out and massage it a little,  
7 we are at approximately 10 to 12 visualizations  
8 approximately halfway through the year, which puts us  
9 basically on track for the soft target of 20  
10 visualizations -- 20 new visualizations this calendar year.

11           As I've already mentioned, in quarter 2, we had  
12 33,000 views across all of our data visualizations on the  
13 website. And, finally, I've been updating you since the  
14 end of December on Data Camp, commission-wide training for  
15 staff on data science tools and skills. Since the end of  
16 December, we're now up to over 350 registered users,  
17 roughly half the organization is registered for Data Camp.  
18 We've logged over 2500 hours of training.

19           And just as a reminder, this was for 40 K, is  
20 what we spent on this. So we are halfway through the year  
21 and already seeing very good return on the training value  
22 for this while at the same time getting staff easy, fast  
23 access without any additional paperwork to training in  
24 Tableau so they can learn how to build these  
25 visualizations. Also a wide range of other skills for them



1 to access data in our new data platform in our new data  
2 warehouse.

3 Last slide, please.

4 Finally, I set these goals for the calendar year  
5 of 2024. I provide them in every update. As we just  
6 talked about, we are roughly on track for 20 new  
7 visualizations this calendar year, which is fantastic.  
8 That's what we set for last year, and we met that. So we  
9 are rapidly closing in on 50 visualizations on the public  
10 website.

11 At the same time as our usage of these tools  
12 matures, we're continuing to explore additional tools for  
13 the public -- or -- I'm sorry, additional tools that the  
14 public can utilize to visualize and work with Energy  
15 Commission people. So those tools will benefit us  
16 internally as well, giving staff the ability to make use of  
17 something like Power BI, which is Microsoft's visualizing  
18 tool, or some other tools that we're exploring to give  
19 everybody, both within the organization and the public,  
20 better access to data in our new modern data platform.

21 Finally, the last two bullets. Internally, we  
22 are doing a lot of work to scale up our capabilities and  
23 processes and to migrate our existing data flows into the  
24 new modern platform. And this is actually the area of work  
25 that I'm most excited about. This is the gigantic iceberg

1 under the nice shiny tip that are these visualizations on  
2 the public website. But this is where the real work was.  
3 And this year, we've established a new unit inside of IT,  
4 the Data Engineering unit, who will be responsible for  
5 actually executing most of our data modernization efforts  
6 doing the actual hands-on keyboard data work. The team  
7 currently has six members, with three more on the way. So  
8 it's growing quickly.

9           And I'd like to end with a shout out to the new  
10 manager, Shantanu Bandyopadhyay. He is just doing a  
11 fantastic job. He's been with us about four months, but he  
12 is helping to build this team. We have some new folks on  
13 this team who are a little green but are fresh and excited  
14 and want to really do this exciting data work that we're  
15 doing. And Shantanu brings a lot of experience. He's  
16 helping to build this team, and we're just really happy to  
17 have him on board.

18           Thank you.

19           CHAIR HOCHSCHILD: Thank you.

20           Any Commissioner discussion?

21           Thank you, Jason.

22           Yeah. Commissioner Gallardo.

23           COMMISSIONER GALLARDO: Thank you, Jason, for the  
24 excellent work and very helpful presentation.

25           I was just curious about the 20 new visualization

1 tools you were talking about. I'm assuming that you're not  
2 doing 20 tools just for the sake of being able to get to 20  
3 tools, like that being a milestone. I'm just curious, are  
4 you -- do you have like a number of requests and like 20 is  
5 what you'll be able to accomplish -- and that sounds like a  
6 lot to me already -- or, you know, like, what is -- can you  
7 provide a little bit more context about what's going on  
8 there?

9 JASON HARVILLE Absolutely. I understand kind of  
10 the confusion because it's kind of weird for me to seek a  
11 target since me and my team aren't doing most of the work;  
12 right? And we're not (indiscernible). So call it a soft  
13 target because it's essentially me looking out there and  
14 saying, I think given the demand that's growing inside your  
15 organization, as to getting better with these tools, and  
16 our ability to support them in that work, that this is  
17 roughly where I think that demand might lie.

18 So I called it a soft target for those reasons,  
19 but to your point, it's absolutely driven by real demand  
20 inside the organization, staff who have ideas, or from you-  
21 all on the dais who are asking for, you know, datasets or  
22 top goals, in fact storage goal, to be represented for the  
23 public in visualizations. That's what's really driving the  
24 number we end up at. That's going to be the number  
25 (indiscernible).

1                   COMMISSIONER GALLARDO: Okay. Thank you.  
2 Because I know there are a couple of visualizations that my  
3 team has been thinking about. And I think we are working  
4 with you so I was just curious, like, how much of I guess  
5 the demand there is and how much you are able to  
6 accomplish. But 20 sounds like -- I mean, that sounds like  
7 a lot so it's great.

8                   JASON HARVILLE We ended last year with something  
9 like this year's.

10                  COMMISSIONER GALLARDO: Okay. Thank you.

11                  CHAIR HOCHSCHILD: Commissioner McAllister?

12                  COMMISSIONER MCALLISTER: Thanks.

13                  Jason, thanks for the presentation and update.

14                  And first, I just want to sing your praises and  
15 congratulate you on the hiring, including Shantanu. I just  
16 think you're building a great team. And it's wonderful to  
17 see the light bulbs going off across the Commission, and,  
18 like, oh, my gosh, we actually have all this, you know,  
19 information, and we have the tools to organize it and  
20 present it. And the public-facing piece of this is just so  
21 important and vital for our role, you know, as a public  
22 agency, that transparency.

23                  I've got a question more kind of on the kind of  
24 more hardcore analytical front. So, you know, Tableau is  
25 great for allowing sort of -- not non-technical, but sort

1 of non-programmer types to, you know, visualize data in  
2 kind of a menu-driven way. Very powerful, and it meets  
3 education, and you're providing those tools, which is  
4 great. I want to find some time to delve into some of  
5 those courses myself.

6           But I guess in terms of our staff and our close  
7 partners and the sort of programming tools that they will  
8 use to access some of the large datasets that now we have  
9 to work with, what's on the -- is there part of a strategy  
10 that's sort of like helping people learn Python or, you  
11 know, learning our -- whatever, like learning and really  
12 using the big statistical packages to work with massive  
13 datasets, that kind of stuff, that, really, for our policy  
14 work may be less public-facing initially. So what's the --  
15 kind of, how does that weave into this effort?

16           JASON HARVILLE   Yeah.   Sure.

17           So I would split this into three groups. There  
18 is business intelligence, which are tools like Tableau,  
19 where somebody else has pulled together the data mostly in  
20 the form it needs to be to tell the story. And then, the  
21 user is exploring that; right? So it's sort of analytical.  
22 You're learning about the data, you are exploring and  
23 deriving insights, but you're not writing functions, you're  
24 not doing statistics, those types of things.

25           So the tools we have now are fantastic for that,

1 Tableau. We're also looking at Power BI, which would  
2 integrate for purely internal work more seamlessly with the  
3 data we have in Microsoft ecosystem already.

4           The second tier I would call analytics; right?  
5 But not like programming. Not power analytics. This is  
6 the work the staff are doing today in a tool like Excel.  
7 This is an area that is actually a soft spot for us right  
8 now. We're actively looking at tools to fill this gap for  
9 staff who either don't have programming skills or who have  
10 a use case where that's just overkill and they just need to  
11 get in there and figure something out the fast and easy  
12 way, which is Excel or a tool like that. So we're  
13 exploring some tools like that. For right now, we're about  
14 to enter into a proof of concept of a tool called Sigma,  
15 which is basically like spreadsheets in the Cloud, which I  
16 think will fill (indiscernible).

17           And then, we have the wide world of programming  
18 and analytics in that sense. We -- that world is as broad  
19 and deep as you want to go. I think we have a really  
20 strong interest in focusing that in planting our flag  
21 around Python and around open source methodologies and  
22 mentalities, even if we aren't actually open-sourcing the  
23 results of that, to help the organization organize  
24 technologically around some core foundational tools like  
25 Python that already integrate with our technology staff,

1 like our data warehouse and some existing built-in tools  
2 for there.

3 Data Camp is a beginning to give staff the skill  
4 set for that, but then, we are also looking to roll out  
5 more detailed guidance, like user guides, here,  
6 specifically, how you, you know, start up Python and plug  
7 into the dataset that you need.

8 COMMISSIONER MCALLISTER: Great. Is there any  
9 sort of peer network that is formalized? I know that staff  
10 is sharing some of these tools just amongst themselves and  
11 sort of when they see a great analyst, they're like, hey,  
12 can you help me with this problem?

13 But how is that kind of going, in terms of just  
14 the analytical kind of ecosystem, you know, at the staff  
15 level because there's so much potential here and I think  
16 you're totally right to focus it and kind of -- I guess,  
17 I'm looking for areas where we can help, if you need help,  
18 just kind of defining, you know, the institutional focus of  
19 some of those efforts.

20 JASON HARVILLE Yeah. I think that's a fantastic  
21 idea. We don't have anything rolling like that right now.  
22 We started something along those lines along with me  
23 coordinating some actual kind of training sessions for  
24 staff right before Covid hit. It killed that. And we have  
25 never really started our sets. I agree.

1 COMMISSIONER MCALLISTER: Thanks again.

2 CHAIR HOCHSCHILD: Vice Chair Gunda?

3 VICE CHAIR GUNDA: Yeah. Thank you, Chair. I'd  
4 just like to -- in the interest of time, I'm going to keep  
5 it short, but I just want to say thanks, Jason, to you and  
6 the leadership and the vision that you cultivated over the  
7 last 40 years.

8 And as you noted, there is a huge opportunity for  
9 us to move from our static datasets into dashboard forms.  
10 I think that's kind of a huge opportunity for us to  
11 continue to advance this work to begin with. But I also  
12 note, more broader vision and kind of things that you're  
13 doing in terms of (indiscernible), that you mentioned, and  
14 giving -- kind of bringing us into a more standardized,  
15 uniform format of doing all this stuff. And I remember  
16 four years ago, when we got started specifically in this  
17 topic, you know, just can't be more thankful for your  
18 leadership and all the staff that are working with you on  
19 this.

20 I wanted to particularly highlight the SBX1-2  
21 dashboard and the petroleum dashboard that was pulled  
22 together to inform the public on, you know, the gas prices  
23 and stuff. So just a big shout out to that. And also,  
24 recognizing that your work is centered around support from  
25 leadership, I really want to recognize Commissioner



1 McAllister and his support, but also Drew and the Executive  
2 Office to giving you both resources and tools to be  
3 successful.

4 So thank you.

5 COMMISSIONER MCALLISTER: And I want to also  
6 include Drew in that group.

7 Just, Drew, thanks for your support on this.  
8 Just, Executive Office has been tremendous, helping just  
9 facilitate us developing this big muscle that's going to be  
10 really powerful.

11 CHAIR HOCHSCHILD: Thank you, Jason.

12 All right. We'll turn now to Item 5, 2024  
13 Transportation Fuels Assessment docket.

14 MR. GEE: Good morning, Commission --  
15 Commissioners. My name is Quentin Gee. I'm manager of the  
16 Advanced Electrification Analysis branch at the CEC in the  
17 Energy Assessments Division.

18 Today, I'm going to talk a little bit about the  
19 findings from the Transportation Fuels Assessment. This  
20 was a report or an assessment conducted under Senate Bill  
21 X1-2.

22 Among many things that the bill does, it requires  
23 the Commission to conduct this fuels assessment. The  
24 results of this assessment will also be used in what's --  
25 what the bill calls a transition plan, a Transportation

1 Fuels Transition Plan, that we'll be conducting in  
2 coordination with the California Area Resources Board.

3 Next slide.

4 So the assessment sort of tasked us with sort of  
5 evaluating the transportation fuels market in the state and  
6 understanding a whole host of different dynamics with the  
7 state. But we thought we'd start out with trying to  
8 broadly characterize just the fuel flows and the movements  
9 throughout the state, looking at, you know, crude oil, sort  
10 of all of that's imported. There is a certain amount that  
11 is produced in-state, but we also have some imports of  
12 fuels and blend stocks as well. But primarily, we refine  
13 this crude oil in the state into fuel. We do import a  
14 little bit of fuel.

15 We do export a bit of fuel as well. We send a  
16 good amount of gasoline, diesel, jet, to Nevada, to  
17 Arizona. We do export a little bit of that as well. But,  
18 yeah, we basically produce quite a bit of our fuel in-  
19 state -- the vast majority of fuel in-state.

20 We produce what's known as CARBOB. It's a  
21 special specification that's unique to California, and a  
22 series of other fuels as well, diesel, jet, non-CARBOB  
23 gasoline that we use for export, et cetera.

24 One of the things that I think is really  
25 interesting about this is that as much as California -- we

1 know it's physically geographically connected to all the  
2 other states -- or to other states; you know, we're next to  
3 Nevada, next to Arizona, next to Oregon. But we are --  
4 pipeline-wise and fuel-wise, we are kind of an island. The  
5 pipeline's been moved to Arizona and to Nevada, but they do  
6 not have -- we don't have pipelines that come into  
7 California from Arizona, from Nevada, from Oregon. So  
8 we're in a bit of a difficult situation when it comes to  
9 that.

10           And then, also, the state really doesn't have any  
11 fuel flows from north to south as well. So these are a  
12 series of different challenges that make it sort of like an  
13 island. We're really kind of isolated in a lot of ways.  
14 We have unique fuel specification. We also have these  
15 different geographical constraints with how fuel moves in  
16 and out of the state. And it creates a lot of interesting  
17 dynamics that we can explore in the next slide and  
18 subsequent slides.

19           So this slide -- I've seen this slide a lot, but  
20 folks that are not as familiar with the fuels assessment  
21 might kind of wonder what's going on here. So let's start  
22 from the bottom.

23           At the bottom, we have the years going from 2006  
24 to 2024. And on the Y axis, the vertical axis here, we  
25 have thousands of barrels per day. So what we've done here

1 is we've stacked the estimated refinery capacity of each  
2 refinery -- the gasoline refining capacity -- for these  
3 refineries on top of each other to sort of represent the  
4 total amount of refinery capacity that the state has.

5           So you can see that in 2006, we had upwards of  
6 almost 1,300,000 barrels per day of gasoline refining  
7 capacity. But as you can see as we move forward through  
8 time, some refineries shut down, some refineries convert to  
9 renewable fuel production, and so that sort of total  
10 refining capacity, by the time we get to 2024, let's say,  
11 we are down to only about nine or so refineries that are  
12 really producing a significant amount of gasoline for us.  
13 And we've got sort of a northern and southern breakdown as  
14 well.

15           These -- this is a unique challenge, as remember  
16 they are not connected by pipeline. So this is quite  
17 concerning. You know, if we were to lose one refinery,  
18 let's say, in Northern California, we'd be down to  
19 essentially two major ones that are producing the bulk of  
20 the fuel.

21           And so, these kinds of supply destructions can be  
22 really challenging. Could be something -- you know, it  
23 could be the result of, you know, planned maintenance going  
24 longer than expected, it could be the result of some kind  
25 of industrial accident. You know, even worst-case

1 scenarios, you know, terrorist events, you know,  
2 earthquakes, other kinds of really catastrophic events  
3 could create very difficult challenges for us as well.  
4 Certainly, we haven't had those kinds of destructions, but  
5 we are tasked with really thinking through the consequences  
6 of this.

7           So we can see the amount of fuel that we are  
8 producing. We can also see on that purple line with the  
9 circles, we can see the peak in-state consumption. And so  
10 what we can kind of see here is that the peak in-state  
11 consumption is kind of close, riding that line of the total  
12 capacity of the state. And so, overall, it's kind of a  
13 tight market in that regard. Combined with all the other  
14 factors I discussed before, we've got a little bit of a  
15 tricky situation here.

16           And as we go, when one refinery shuts down or  
17 converts to renewable fuel production, we kind of lose that  
18 production capacity in one fell swoop; whereas, if we look  
19 at the next slide, we can see that demand in the state is  
20 going to be a unique challenge for us.

21           So here, what we're looking at, the previous  
22 amount of demand that we saw. We saw -- see a little bit  
23 of a Covid dip there, but we also see future scenarios, a  
24 rapid, fast, and a slower transition response of gasoline  
25 demand in the state. We expect gasoline to decline in the

1 state because of rapid adoption of zero emission vehicles.  
2 That's one of the key priorities for the state, I know for  
3 the Commission as well, one of the things that we support  
4 quite a bit.

5           You know, we have sort of a smooth decline, and  
6 yet this kind of lumpy -- you know, smooth decline in  
7 demand, and yet a kind of a lumpy decline in the supply.  
8 And that can create a little bit of a challenging situation  
9 with managing supply, especially in the context of things  
10 like price spikes, destructions, those sorts of things like  
11 that.

12           One thing I also should point out is that  
13 either -- in 2035, we're still looking at a good amount,  
14 even through the rapids here, we're looking at quite a bit  
15 of demand for gasoline. And these are going to be  
16 consumers, residents, families in California. They will  
17 need gasoline. And so, we can't just, you know, ZEVs --  
18 zero emission vehicles are great, we want as many as we  
19 can. But we still have to keep in mind that plenty of  
20 demand will be there for gasoline, and we want to make sure  
21 that supply is safe, affordable and reliable.

22           Next slide.

23           So one of the things that we did here is we  
24 explored a host of different options -- not a host, but a  
25 lot of different options, 12 of them, to be specific. We

1 categorized these broadly in terms of demand strategies,  
2 supply strategies, ones that are -- kind of are in a little  
3 bit between but very highly complex, in terms of  
4 implementation. And we also looked at a rail car  
5 replenishment approach for emergencies and what the  
6 capabilities are for that.

7           We've had several workshops. We discussed these  
8 in May with the public and got a lot of feedback from them  
9 on these different strategies and made some adjustments.  
10 But a lot of different ideas here that we explored in the  
11 assessment, and worth discussing and using also in the  
12 Transportation Fuels Transition Plan.

13           Next slide.

14           So as I mentioned, we had a series of workshops.  
15 In May, we had the release of the draft. Prior to that, we  
16 had a workshop sort of exploring ideas a little bit more  
17 broadly. And then, we posted the draft in May and got  
18 written comments from nine different organizations. From  
19 the public, we had environmental and environmental justice,  
20 we had community organizations, some scientific  
21 organizations, and then, also, industry organizations, such  
22 as those representing refineries and renewable fuels.

23           So some of the major themes are in terms of, you  
24 know, what the public was interested in learning more about  
25 or focusing on. There was a good amount of support for

1 storage. There were a broad array of concerns with  
2 approaches to enhancing production and production sort of  
3 flexibility, one might say.

4           There was also an interest in equitable financial  
5 support for low-income Californians that are most impacted,  
6 in terms of price spikes. And we also heard a little bit  
7 on an emphasis for renewable fuels, some folks wanting E15  
8 or ethanol blend of 15 percent, rather than 10 percent that  
9 we have today. And there were some industry concerns with  
10 some of the policies and some of the approaches and some  
11 concerns longer term with things like the ability to import  
12 fuel in the state as well.

13           We considered these comments, made some  
14 modifications, worked with a host of different  
15 organizations throughout the different agencies, and we  
16 feel like we're in a pretty good position here to move  
17 forward and adopt.

18           The next step for us would be to move to the  
19 Transportation Fuels Transition Plan. So once we have this  
20 adopted, we can take this on, consider it more formally,  
21 and integrate it into a broader approach towards  
22 transitioning down gasoline and other refined fossil fuel  
23 transportation fuels in the future.

24           So with that, on the next slide, our  
25 recommendation is to adopt the SBX1-2 Transportation Fuels



1 Assessment and submit it to the Legislature, in accordance  
2 with the government.

3 I can take any questions.

4 CHAIR HOCHSCHILD: Great. Thank you so much.

5 Let's go to -- well, actually, let's go to public  
6 comment first and then we'll do a discussion.

7 Any public comment on Item 5?

8 MS. BADIE: Thank you, Chair.

9 This is now the time the Commission welcomes  
10 public comment for Item 5. If you are in the room with us,  
11 we're asking folks to use QR code or raise their hand. And  
12 if you're on Zoom, you'll raise your hand by using the  
13 raise hand feature on your screen, or \*9, if joining by  
14 phone.

15 And first, we'll hear from Sophie Ellinghouse.

16 Sophie, if you'd like to approach the podium. We  
17 asking for comments to be two minutes or less; and it's  
18 very helpful for our court reporter if you could spell your  
19 name for the record before beginning your remarks.

20 MS. ELLINGHOUSE: Okay. Sophie Ellinghouse,  
21 general counsel for Western States Petroleum Association.  
22 Last name is E-l-l-i-n-g-h-o-u-s-e.

23 We appreciate the Commission and CARB's efforts  
24 to better understand the transportation fuel market and to  
25 prepare this first transportation fuels assessment that

1 really does begin to recognize the impacts from  
2 California's structural gasoline supply challenges.

3           As we pivot to work on the transition plan, which  
4 SBX1-2 requires state consultation with our fuel producers  
5 and refiners, WSPA would strongly recommend prioritization  
6 of practical solutions to meaningfully help address current  
7 and future supply constraints. Specifically, we need more  
8 robust state-led discussions to address the patchwork of  
9 local permitting obstacles constraining the delivery of  
10 cleaner fuels. These permitting obstacles pose very real  
11 logistical challenges in timely delivering fuel to  
12 Californians.

13           Permitting challenges range from upstream  
14 domestic crude oil production to the downstream production  
15 of low-carbon fuel supplies. The state needs to help  
16 streamline and speed up permitting for all of these  
17 categories, as well as for CCS and other low-carbon  
18 technology options. We have also repeatedly flagged CARB's  
19 2020 changes to the ocean-going, at-berth regulation. This  
20 is another dangerous obstacle to the state's continued  
21 ability to timely obtain fuel.

22           The regulation changes will require all tankers  
23 to either use shore power or emission controls when  
24 transferring cargo at berth starting January 1st, 141 --  
25 130 days from now; excuse me. But the California tanker

1 fleet is not presently capable of utilizing shore power,  
2 and no safe emissions control technology has been developed  
3 yet. So come the new year, the regulation will likely  
4 severely limit the number of calls tankers make to the  
5 ports of L.A. and Long Beach, two of the very same  
6 facilities identified in your assessment.

7           Unfortunately, we have no offer of relief from  
8 CARB from the regulation and no guidance on how the state  
9 plans to ensure that the at-berth regulation doesn't  
10 restrict the import capacity the state needs. Addressing  
11 all these issues I've mentioned and the ones I haven't will  
12 require us to meaningfully work together in an integrative  
13 manner.

14           With the mere two minutes allotted here today, we  
15 trust the state will follow up with WSPA and the rest of  
16 the industry to do so.

17           Thank you.

18           MS. BADIE: Thank you.

19           We don't have any other comments in the room so  
20 I'm going to transition to Zoom.

21           Alicia Rivera, I'm going to open your line.  
22 You'll unmute on your end. We have your name in the Zoom  
23 so you don't need to spell it before making your comment.  
24 And we're asking for comments to be two minutes or less.

25           Alicia, your line is open. You'll have to unmute

1 on your end to begin.

2 MS. RIVERA: Can you hear me?

3 MS. BADIE: Yes.

4 MS. RIVERA: My name is Alicia Rivera. I'm  
5 Wilmington Community Organizer for Communities for a Better  
6 Environment, or CBE.

7 Many of the CEC leadership and staff have seen  
8 the extreme oil refining, drilling and (indiscernible) to  
9 transportation that our communities suffer from, as do  
10 other CBE members and allied organization in Richmond and  
11 other areas. We recognize how necessary, timely, and  
12 diligent the CEC's fuel assessment is, and how overall you  
13 embrace the mandate to protect consumers and included  
14 context on racial health and inequity. All members living  
15 on the fence lines of refineries are also the consumers who  
16 feel gasoline price gouging worse, and we are left behind  
17 in the advantage of transition. They are also the one  
18 whose health is sacrificed for wholesale fuel  
19 transportation and are hit worse by the climate crisis.

20 Our members know best that the steady reduction  
21 of in-state demand for gasoline and diesel is absolutely  
22 necessary for health and climate survival. They also know  
23 that how this transition happens matters just as much.  
24 When left to refineries or communities and consumers across  
25 the state, we'll get no relief from pollution.

1           On the other hand, the U.S. Chemical Safety Board  
2 found recently that the oil industry in California has  
3 deferred maintenance, to the detriment of safety, causing  
4 explosion and fires. At the same time, CEC needs to take  
5 the next steps of dedicating a policy of securing safety  
6 through a supply-side strategy. We need to begin to lay  
7 out a scheduling plan for oil refineries to be phased down.

8           As refineries make business choices for further  
9 increasing exports, draining gasoline, diesel and jet fuel  
10 from California to ship overseas, that can result in less  
11 room to make gasoline made in California a standard,  
12 a.k.a., (indiscernible) for us. This must be milestone for  
13 carbon emission while gasoline demand is lower and to  
14 maintain our climate and quality goals.

15           Thank you very much.

16           MS. BADIE: Thank you for your comment.

17           Next, we'll hear from phone number ending in 815.  
18 I'm going to open your line. You'll press \*6 to unmute,  
19 and it would be helpful for our record if you could please  
20 state and spell your name before beginning your comment.

21           Phone number ending in 815, your line is open.  
22 You'll have to unmute on your end, pressing \*6.

23           MR. YORK: Hi. My name is Harold York. Can you  
24 hear me?

25           MS. BADIE: Yes.

1           MR. YORK: My name is Harold York, H-a-r-o-l-d Y-  
2 o-r-k. I'm from Turner, Mason & Company.

3           As part of our work on the energy transmission --  
4 transition, Turner, Mason is focusing on how the transition  
5 from transitional -- traditional fuels to new energy  
6 sources and the required infrastructure might evolve. We  
7 are keenly interested in how California -- in California,  
8 as it attempts energy transformation in scope, sale and  
9 timing that has never been attempted before. We appreciate  
10 the Commission's transportation fuel assessment, and we  
11 have used it in a study of the California liquid  
12 transportation fuel supply chain and we draw the following  
13 conclusions.

14           Number one, California crude oil production is in  
15 sharp decline. Crude oil production is declining about 15  
16 percent a year, which is 50 percent faster than the  
17 gasoline demand declined in the last week. This decline is  
18 not due to a lack of resources but by the slowing pace of  
19 issuing necessary permits. The SNAP law that is proposed  
20 could result in an additional 20 percent decrease in  
21 California production.

22           Two, crude oil pipelines are approaching minimum  
23 volumes. Trunk lines carrying crude oil from fields to  
24 refineries must operate at minimal through-put. If crude  
25 flow drops below those minimums, they have to close for

1 safety and economic reasons. Our analysis shows that  
2 several pipelines in California might be approaching the  
3 critical closure risk.

4 Three, growing drain must eventually reach a  
5 limit. Crude oil production requires increase in tanker  
6 imports. Substituting import for domestic for crude is not  
7 only more expensive, it also increases vessel traffic,  
8 which has its limits. Vessel traffic congestion is not  
9 just an import issue with increasing imports of petroleum  
10 diesel, most renewable -- as renewable diesel captured the  
11 California market center.

12 To further complicate these logistical changes,  
13 CARB's forthcoming platform regulations to the owner, to  
14 the entire shipping or district picture or refineries will  
15 soon face difficult decisions. Our scenarios show a series  
16 of (indiscernible) with the hard landing with risk of  
17 growing (indiscernible) might be making (indiscernible)  
18 very soon. It is important to remember from a refining  
19 perspective, it's already 2030 we're requiring the refining  
20 to stop (indiscernible).

21 And finally, on the side, petroleum makers should  
22 be looking at the cumulative --

23 MS. BADIE: Please conclude your comment. Your  
24 time is up.

25 Thank you for your comment.

1           And I think we have one more commenter in the  
2 room.

3           Claire Zuma, did you want to comment on Item 5?  
4 If so, please approach the podium at this time.

5           And then, we also have another raised hand on  
6 Zoom that we will go to after Claire.

7           MS. ZUMA: Hi. I just wanted to ask that when  
8 they present data like that about California, which was  
9 fantastic to see -- I'm not very familiar with oil and gas  
10 industry, and I really don't hope to be. I enjoyed seeing  
11 the data up there showing where things went, imported and  
12 exported, and all the detail. What I would really ask that  
13 the Commission do, the staff do, is add those things like  
14 renewable diesel, clearly, transparently, to the public  
15 that designs for power plants and submits designs, like,  
16 for data centers, where they put in all these, you know,  
17 proposed backup generators that might run on some kind of  
18 renewable something, and nobody in the design field sees  
19 that as clearly as -- you know, it would be fantastic to  
20 see that really clearly and transparently to the public,  
21 what is being produced here in that same kind of scenario.

22           Thanks.

23           MS. BADIE: Thank you.

24           Next, we'll hear from Bobbi Jo Chavarria on Zoom.

25           I'm going to open your line. We're asking for



1 comments to be two minutes or less.

2 MS. CHAVARRIA: Hi. Good afternoon -- good  
3 morning, good afternoon. This is Bobbi Jo Chavarria from  
4 Sierra Club California.

5 I just want to thank staff and the Commission for  
6 taking a look at this -- I'm actually just completing --  
7 right? -- what we need to do in terms of assessment of  
8 where our fuel's -- fueling is and where we should be. I  
9 agree with some of the sentiments in terms of robust  
10 participation is necessary, not only from the industrial  
11 and provider side, but definitely from environmental  
12 justice communities as well as environmental groups like  
13 Sierra Club and our coalition allies, really representing  
14 the perspective of front-line communities who have  
15 disproportionately been impacted by the operations  
16 refinery -- refinement and distribution of fossil fuels.

17 So I appreciate the opportunity to continue this  
18 conversation. I am new to Sierra Club California and am  
19 anticipating being able to meet with all of you-all and  
20 continue, you know, this conversation.

21 I just want to share. You know, my son and I  
22 took a trip up north. We're from Southern California. We  
23 took a trip up north and there was a couple of places  
24 where -- right off of the freeway, near homes and things,  
25 we saw some, you know, refinery operations. We saw some

1 pumping, oil extraction. And my son was 15, and he was  
2 very surprised -- right? -- at how close it was and how new  
3 buildings and new residences are being built towards all of  
4 these things and, you know, just instinctively understood  
5 the unhealthy impacts. And so, we want everyone to  
6 remember those and really weave that in as well as  
7 including in the assessment.

8 Thank you.

9 MS. BADIE: Thank you.

10 That concludes public comment for this item.

11 Back to you, Chair.

12 CHAIR HOCHSCHILD: Okay. Let's go to  
13 commissioner discussion, starting with the Vice Chair.

14 VICE CHAIR GUNDA: Thank you, Chair. Thank you,  
15 Quentin, for the presentation.

16 I just wanted to share an acute sense of  
17 gratitude from the entire team for the last year's worth of  
18 work. I think it's a monumental effort. I think it's  
19 really well-structured document, in keeping with the facts  
20 for the objective and trying to shed light on, you know,  
21 the gasoline landscape, the petroleum landscape in  
22 California, and really focusing on the problem statement of  
23 what could be behind the, you know, the various variables,  
24 you know, getting at the price spikes and what could be  
25 done to address that.

1           So I'm -- you know, I feel kind of the best forum  
2 that the CEC can take when we do work like this that has a  
3 lot of public attention is ridiculous in having integrity  
4 that we can stand behind. So I just congratulate you and  
5 the team and work.

6           Also want to say big thanks to Drew. Thinking  
7 you executed the roll of this and really dug in, trying  
8 to -- making sure we are doing this right, and the  
9 interagency collaboration both with CARB, City TFA, and but  
10 also the tremendous input we get from DPMO, you know, in  
11 kind of helping us put the perspective on the work we do.  
12 So just want to say thanks to Ty Malger (spelled  
13 phonetically).

14           And, finally, to all the stakeholders, I want to  
15 start with the industry. You know, it wouldn't be possible  
16 without the industry getting information on a lot of these  
17 fronts. So I kind of heard from the WISPA colleagues and  
18 others, and just thanks for making kind of the  
19 collaborative effort to really pull in the information,  
20 labor, environmental justice colleagues, and friends. I  
21 think it's -- overall, I feel like it's been a very, very  
22 good effort.

23           I also see the opportunity for us to continue to  
24 refine this with more data as kind of the legislative acts  
25 become -- you know, gives us more tools to handle this

1 overall problem statement.

2           Finally, I think it's important for us to  
3 recognize the role of the transition plan. Assessment was  
4 one part of it. You know, it was a data collection and  
5 framing the problem. And now that we have the problem, we  
6 have to still work with CARB on the transition plan and  
7 it's just got started. So really appreciate the  
8 stakeholder engagement there to now think about these  
9 options and how to operationalize these options and which  
10 one do we prefer as we move forward in this important  
11 process.

12           I also want to thank the Chair's office. The  
13 Chair and I have been working on this together. Chair kind  
14 of pushed for visiting every single refinery in California  
15 as a part of learning. And also, some of the colleagues we  
16 heard from, the front-line communities, cities, to come  
17 visit the communities and kind of experience, you know, in  
18 their roll, in what some of the conditions that they -- and  
19 perspectives they bring to the table. So really thankful  
20 for the overall effort. I think there's a lot of work to  
21 do ahead.

22           Thank you, and congratulations to you, the entire  
23 team, Alicia, the top.

24           And also want to just, in closing, recognize the  
25 FAR offices and the direct work on this through Aria

1 (spelled phonetically).

2 So, Aria, thank you for your work in engaging all  
3 these things.

4 MR. GEE: Thank you, Vice Chair.

5 CHAIR HOCHSCHILD: Thank you.

6 Commissioner Monahan?

7 COMMISSIONER MONAHAN: Well, I just want to  
8 commend Quentin and his team. I mean, I really do feel  
9 like you model inquisitive research and you are willing to  
10 listen to diverse opinions when you do your research  
11 reports, and it's something I've long admired. And I just  
12 want to say, like, that this report is a good example of  
13 that. It's a complicated issue. Lots of ways this report  
14 could have been written, and instead, it was written, I  
15 felt, in a very compelling and easy-to-read way that really  
16 highlighted the choices at stake.

17 So just want to commend you and the team, and I  
18 think this is an excellent report.

19 MR. GEE: Great. Thank you, Commissioner  
20 Monahan.

21 CHAIR HOCHSCHILD: Yeah. My thanks as well.  
22 Commissioner McAllister?

23 COMMISSIONER MCALLISTER: I wanted to just thank  
24 you for the briefing, and I couldn't agree more with Vice  
25 Chair and Commissioner Monahan's comments on just the rigor

1 and the kind of high level of the discourse that you sort  
2 of establish and maintain. I think it's really, really  
3 exemplary. And also, just making it -- making  
4 communication as plain-spoken as it can be as well. So  
5 that's a fine balance, and I think you and the team just  
6 did a great job on that.

7           And I did want to just really single out the  
8 Vice Chair for leadership on this really complicated issue  
9 and just interfacing with so many stakeholders and helping,  
10 you know, guide the effort, you know. And you're in the  
11 listees on the analysis piece. But that leadership, both  
12 Vice Chair and Chair, I think just you really been stars on  
13 this as well. So, thanks.

14           CHAIR HOCHSCHILD: Unless there's any other  
15 discussion, I'd welcome a motion on Item 5 from the Vice  
16 Chair.

17           VICE CHAIR GUNDA: Move Item 5.

18           CHAIR HOCHSCHILD: Is there a second from  
19 Commissioner Monahan?

20           COMMISSIONER MONAHAN: Second.

21           CHAIR HOCHSCHILD: All in favor, say "Aye."  
22 Vice Chair Gunda?

23           VICE CHAIR GUNDA: Aye.

24           CHAIR HOCHSCHILD: Commissioner Monahan?

25           COMMISSIONER MONAHAN: Aye.

1 CHAIR HOCHSCHILD: Commissioner Gallardo?

2 COMMISSIONER GALLARDO: Aye.

3 CHAIR HOCHSCHILD: Commissioner McAllister?

4 COMMISSIONER MCALLISTER: Aye.

5 CHAIR HOCHSCHILD: And I vote aye as well.

6 Item 5 passes unanimously.

7 I have a hard stop at noon for a call; so rather  
8 than take up Item 6, I want to just knock out a couple of  
9 the very short items at the end of the agenda.

10 So why don't we take up Item 16, minutes. Is  
11 there a motion?

12 Any public comment on Item 16?

13 COMMISSIONER MCALLISTER: Move to adopt the  
14 minutes.

15 MS. BADIE: Thank you, Chair.

16 CHAIR HOCHSCHILD: Oh, sorry.

17 MS. BADIE: The Commission opens public comment  
18 on Item 16, that's the minutes from the June 26th Business  
19 Meeting. If you're in the room with us, we're asking folks  
20 to raise their hand quickly. And then, if you're on Zoom,  
21 you'll use the raise hand feature on your screen, or \*9 if  
22 you're joining by phone to let us know you'd like to  
23 comment on this item.

24 And just giving that a moment.

25 Not seeing any raised hands for Item 16.

1 Back to you, Chair.

2 CHAIR HOCHSCHILD: I would say this is actually  
3 the last time we're going to be adopting minutes because we  
4 have a new system. They'll just be recorded; right? So we  
5 don't have to be --

6 COMMISSIONER MCALLISTER: I will actually not  
7 move this item because I was absent.

8 CHAIR HOCHSCHILD: So you were absent. Yeah.  
9 Right.

10 Who else was?

11 VICE CHAIR GUNDA: I abstain as well.

12 CHAIR HOCHSCHILD: Okay. So with two  
13 abstentions -- how can you abstain? No, we had to have --  
14 who needs to abstain from the June 26th meeting? This is  
15 the June 26th -- yeah. So I think we -- I think we -- who  
16 was missing in June?

17 This is the minutes. No, off-shore wind was  
18 July. I was here June. Were we all here?

19 COMMISSIONER MCALLISTER: Let me check my  
20 calendar.

21 MS. BADIE: June 26th, we heard off-shore wind  
22 presentation. No vote was taken, and the vote was  
23 continued until the July Business Meeting, is my memory of  
24 that. So --

25 CHAIR HOCHSCHILD: You were gone. Okay. So it's



1 four.

2 COMMISSIONER MCALLISTER: Yeah. I was here.

3 CHAIR HOCHSCHILD: Okay. Okay. So the Vice  
4 Chair and Commissioner -- okay.

5 So this -- the motion from Commissioner Monahan  
6 for Item 16.

7 COMMISSIONER MONAHAN: I move to approve this  
8 item.

9 CHAIR HOCHSCHILD: Is there a second from  
10 Commissioner McAllister?

11 COMMISSIONER MCALLISTER: Second.

12 CHAIR HOCHSCHILD: All in favor, say "Aye."  
13 Commissioner Monahan?

14 COMMISSIONER MONAHAN: Aye.

15 CHAIR HOCHSCHILD: Commissioner McAllister?

16 COMMISSIONER MCALLISTER: Aye.

17 CHAIR HOCHSCHILD: And I vote aye as well.

18 Item 16 passes three to zero with Commissioner  
19 Gallardo abstaining, and with Vice Chair abstaining.

20 Let's take up Item 18, Executive Director's  
21 report.

22 MR. BOHAN: Thank you, Chair, Commissioners.

23 No report this afternoon.

24 CHAIR HOCHSCHILD: Thank you.

25 Item 19, Public Advisor's Report.

1 MS. BADIE: Thank you, Chair.

2 I just wanted to mention that the CEC-CPUC  
3 Disadvantaged Communities Advisory Group is having a  
4 meeting this Friday. And on the agenda, they'll hear a  
5 presentation by CPUC on the 2024 Senate Bill 695 report.

6 And then, also, staff from Energy Commission will  
7 be presenting on SBX1-2. And that's implementation for the  
8 maximum gross refining margin penalty for refiners and  
9 increased transparency.

10 And also, JCAB will be considering a revision to  
11 its equity framework.

12 And that's all I have for today.

13 Thank you.

14 CHAIR HOCHSCHILD: Okay. Thank you.

15 Item 20, Counsel's Report.

16 MS. DECARLO: No report.

17 CHAIR HOCHSCHILD: Item 17, Commission Monahan  
18 had to leave a little bit early so maybe you can do your --  
19 will your report out take more than five minutes, Patty?

20 COMMISSIONER MONAHAN: About -- I have to find  
21 it.

22 CHAIR HOCHSCHILD: We can take our break.

23 All right. So why don't we break and then  
24 reconvene at 1:00, would be good.

25 Okay. Thanks.

1 (OFF THE RECORD AT 11:54 A.M.)

2 (ON THE RECORD AT 1:02 P.M.)

3 1:02 P.M.

4 CHAIR HOCHSCHILD: Okay. Welcome back from  
5 lunch, everyone. We will pick up where we left off, which  
6 is we're ready now to turn to Item 6, Proposed Order  
7 Finding Sacramento Municipal Utility District's Integrated  
8 Resource Plan Compliant with the PUC Code Section 9621, and  
9 I welcome Brian McCollough.

10 MR. MCCOLLOUGH: Good afternoon, Commissioners.  
11 My name is Brian McCollough. I'm from the Energy  
12 Assessments Division, and today I will present a brief  
13 overview of Sacramento Municipal Utility District, SMUD's,  
14 Integrated Resource Plan, IRP.

15 Next slide, please.

16 IRP is the utility's long-term plan for procuring  
17 supplies to meet electricity demand along with actions for  
18 reaching climate and other goals.

19 SP350 requires the 16 largest POU's in the state  
20 to adopt IRPs and submit them to the CEC for review for  
21 consistency with the State's energy and climate policies.

22 POU IRPs became a standard requirement with  
23 Senate Bill 350. Prior to SB 350 IRPs were only required  
24 for load-serving entities regulated by the California  
25 Public Utilities Commission, although many of the POU's

1 prepared them. So now POU's submit them to us every five  
2 years.

3 Next slide, please.

4 As we review IRPs for consistency with Public  
5 Utilities Code Section 9621, this process allows us to see  
6 how the public utilities are working towards the State's  
7 goals. Integrated Resource Plans are required to be  
8 submitted every five years. The first round was in 2018,  
9 and SMUD's IRP kicks off the second round.

10 In this review cycle we're going to be processing  
11 the IRPs in three tranches or groups. SMUD is the first to  
12 make it to the Business Meeting in this first tranche. We  
13 have 15 more IRPs and expect to complete the review by the  
14 end of the second quarter of 2025.

15 Next slide, please.

16 So, SMUD is the local utility for all of  
17 Sacramento County and a small portion of Placer County and  
18 serves about 645,000 customers.

19 SMUD's board adopted their 2030 Zero Carbon Plan  
20 to achieve the goal of carbon neutrality by 2030. This  
21 plan serves as their IRP and focuses on reducing greenhouse  
22 gases by modifying the natural gas generation through  
23 retirement and repurposing, including the use of renewal  
24 fuels, additional deployment of proven clean energy  
25 technologies, including solar, wind, geothermal and battery

1 storage.

2 Next slide.

3 So, these charts show the projected evolution of  
4 SMUD's generation capacity. As you can see, SMUD plans to  
5 reduce reliance on natural gas generation from 36 percent  
6 of capacity to eight percent. Under normal conditions SMUD  
7 anticipates supplying energy from cleaner resources only  
8 and will achieve a 90 percent RPS by 2030.

9 SMUD is also making significant investments. For  
10 example, SMUD's Solano 4 Wind Project is repowering. We're  
11 moving 23 turbines that made 15 megawatts in total and  
12 replacing them with 19 turbines that will make 85 megawatts  
13 in total, taking advantage of the existing wind resource.

14 SMUD'S IRP also includes plans for shifting to  
15 renewal biomethane, or green hydrogen, or other low-carbon  
16 fuels at the existing thermal resources.

17 Next slide.

18 SMUD's IRP prioritizes projects that create jobs,  
19 attract climate-friendly local businesses, strengthen  
20 communities and reduce impacts to air quality. SMUD's  
21 existing resources, including hydro-electric resources in  
22 the upper American River Project, combined with local  
23 generation and storage and low carbon generation in  
24 existing thermal resources will all contribute to system  
25 reliability and meeting the POU IRP planning requirements.

1 SMUD passes the requirements of the assessment  
2 listed on the slide for the components that need to be  
3 included in their IRP.

4 Next slide.

5 Staff recommends approving the request to adopt  
6 the determination that SMUD's IRP is consistent with the  
7 requirements Public Utility Code Section 9621.

8 That concludes my presentation. Are there any  
9 questions from the dais?

10 CHAIR HOCHSCHILD: Thank you. Let's go to public  
11 comment on Item 6.

12 MS. BADIE: Thank you, Chair. The Commission  
13 welcomes public comment on Item 6 at this time. If you're  
14 joining us from the room you can raise your hand. You can  
15 also use the QR code to let us know you'd like to comment.  
16 And if you're joining on Zoom, you'll use the raised hand  
17 feature on your screen to let us know, and star nine if  
18 joining by phone.

19 So, first we'll go to folks in the room, and we  
20 have Katharine Larson. Katharine, if you would like to  
21 comment on Item 6, we're asking you to please approach the  
22 podium and please spell your name for the record. We're  
23 asking for comments to be two minutes or less. Thank you.

24 MS. LARSON: Good afternoon, Chair Hochschild and  
25 Commissioners. My name is Katherine Larson. That's K-A-T-

1 H-A-R-I-N-E, Larson, L-A-R-S-O-N, and I am with the  
2 Sacramento Municipal Utility District, or SMUD.

3 I'd first like to thank CEC staff, Brian, Alice  
4 and Liz, for all their efforts and collaborative approach  
5 during the IRP review process.

6 As you've heard, SMUD's Board of Directors  
7 adopted our 2030 Zero Carbon Plan as our IRP update, and  
8 that plan includes a flexible roadmap for SMUD to remove  
9 all greenhouse gas emissions from our power supply by 2030,  
10 working within the guardrails of reliability and  
11 affordability, and also with a focus of ensuring that all  
12 of our customers and communities can share in the benefits.

13 SMUD is very proud of the commitments that are  
14 reflected in our plan and our IRP, and we are also very  
15 proud of the progress we've been making in the past few  
16 years, the support staff's findings that SMUD's IRP filing  
17 is consistent with the statutory requirements and we  
18 support adoption of the proposed order today. Thank you.

19 MS. BADIE: Thank you, and that is the only  
20 comment for this item. Back to you, Chair.

21 CHAIR HOCHSCHILD: Okay. We'll turn now to  
22 Commissioner discussion, starting with the Vice Chair.

23 VICE CHAIR GUNDA: Thank you, Chair. Thank you  
24 for the presentation, Brian. Thanks, Katharine for the  
25 comments there.

1           I just wanted to say thank you, Brian, to you and  
2 the CEC team, Elise and the EAD Division that kind of works  
3 on the IRPs, the POU IRPs.

4           I want to just uplift SMUD's incredible work the  
5 last several years in terms of moving towards the zero  
6 carbon plan and, some of the, you know, innovative demand  
7 side work that SMUD has been doing.

8           So, I look forward to supporting this, and again,  
9 thanks to the entire team for working on this.

10           CHAIR HOCHSCHILD: Any others from the  
11 Commissioner dais? Commissioner Monahan.

12           COMMISSIONER MONAHAN: I'm going to be brief and  
13 just say I really appreciate SMUD's leadership when it  
14 comes to clean energy at large. And when I talk to EV  
15 charging companies they always say SMUD is really good when  
16 it comes to interconnecting to the grid. So, I just want  
17 to say thanks to SMUD for all that it's doing to advance  
18 clean energy in the state.

19           CHAIR HOCHSCHILD: I concur with that. It's a  
20 very, very favorable experience with SMUD on all these  
21 issues.

22           With that, is there a motion on six from the Vice  
23 Chair?

24           VICE-CHAIR GUNDA: I move on Item 6.

25           CHAIR HOCHSCHILD: Is there a second from



1 Commissioner Monahan?

2 COMMISSIONER MONAHAN: I second.

3 CHAIR HOCHSCHILD: All in favor say aye. Vice  
4 Chair Gunda.

5 VICE-CHAIR GUNDA: Aye.

6 CHAIR HOCHSCHILD: Commissioner Monahan.

7 COMMISSIONER MONAHAN: Aye.

8 CHAIR HOCHSCHILD: Commissioner Gallardo.

9 COMMISSIONER GALLARDO: Aye.

10 CHAIR HOCHSCHILD: Commissioner McAllister.

11 COMMISSIONER McALLISTER: Aye.

12 CHAIR HOCHSCHILD: And I vote aye as well. Item  
13 6 passes unanimously. We'll turn now to Item 7 which is  
14 Order Instituting Rulemaking Efficiency Regulations for  
15 Televisions and Displays. Peter.

16 MR. STRAIT: Thank you. Good morning, Chair and  
17 Commissioners. I'm Peter Strait, Manager of the Appliance  
18 Efficiency Branch of the Efficiency Division.

19 I'm before you today to request the adoption of  
20 an order instituting rulemaking for pursuit of efficiency  
21 standards for televisions and displays.

22 Next slide, please.

23 Californians have benefits from television  
24 efficiency standards for 18 years, and re-establishing  
25 efficiency standards preserves these efficiency benefits

1 for our state.

2 A rulemaking would allow us to bridge the divide  
3 between products subject to the modern Federal test and  
4 those subject to California's existing test procedure  
5 ensuring uniformity in testing, data reporting and  
6 stringency of efficiency requirements.

7 Acting now signals to industry that energy  
8 efficiency will need to stay a priority in television  
9 display design and construction.

10 Lastly, the efficiency standards adopted by the  
11 CEC provide a benefit of lower energy bills for usage of  
12 regulated appliances. The avoided electricity use  
13 attributed to our full set of appliance efficiency  
14 standards is between 40 and 50 terawatt hours annually,  
15 which would cost consumers roughly \$14,000,000,000 to pay  
16 for.

17 Put another way, our standards save each  
18 Californian on average \$350 each and every year.

19 Next slide, please.

20 Staff's perspective is that an order instituting  
21 rulemaking for televisions and displays would create a  
22 continuity in the regulation of these appliances, ensuring  
23 that Californians continue to benefit from technology  
24 improvements that allow products to provide more power  
25 control features and reduce their own power needs.

1           A 2020 analysis estimated roughly 34,000,000  
2 televisions in use throughout California, and this number  
3 is expected to grow over time.

4           Staff's goal for this rulemaking is also to  
5 leverage the robust of tests required by Federal law as  
6 there are several areas where it is an improvement over  
7 California's existing method of testing.

8           Lastly, staff recognizes responsibility to  
9 examine television and energy use as they are estimated to  
10 consume in aggregate over 6,000,000 terawatt hours each  
11 year.

12           Next slide, please.

13           In 2006, as the first in the nation, the CEC  
14 adopted requirements for televisions, making mandatory a  
15 longstanding Energy Star limit on power use in standby  
16 modes.

17           We then followed up with more substantial energy  
18 efficiency standards in 2009, leading to requirements for  
19 inclusion of specific active and standpoint modes beginning  
20 in 2011, followed by specific performance standards based  
21 on screen area in 2013. These standards reflected the  
22 growing availability of LED screens and the efficiencies  
23 they were able to achieve.

24           These standards remained effective until the  
25 Federal adoption of the ANSI and CTA method of testing in

1 2023. This Federal action limited manufacturers' ability  
2 to submit energy data to California to verify compliance  
3 with our minimum in efficiency standards.

4 We partially addressed the Federal change earlier  
5 this year with the adoption of Federal and administrative  
6 updates of appliance efficiency regulations at our April 10  
7 Business Meeting. These updates amended our data reporting  
8 requirements to align them to the new Federal method of  
9 test, re-establishing data reporting requirements for  
10 televisions within the scope of the Federal method.

11 We now want to complete these alignments by re-  
12 establishing standards for these products, and in doing so,  
13 we also want to examine the feasibility of updating our  
14 test procedures for models outside the scope of the test to  
15 align with the Federal test to the greatest extent  
16 possible.

17 Next slide, please.

18 Staff's next steps following adoption of a  
19 proposed order would be to bring together data on  
20 television and display energies for manufacturers,  
21 interested parties and our own systems.

22 We would also seek to convene a work group to  
23 establish consensus on scope, definitions and feasibility  
24 of standard setting. Then staff would identify available  
25 alternatives supported by received data and based on work

1 group input.

2           And, lastly, staff could incorporate their  
3 analysis, alternatives and recommendations into a draft  
4 staff report. This report would both support the  
5 Commission in determining what alternative to pursue and  
6 provide the analytical foundation needed for formal  
7 rulemaking.

8           Approval of this item today means that staff can  
9 move ahead in re-establishing appropriate and effective  
10 standards for these products.

11           Next slide, please.

12           This concludes my presentation, and I am happy to  
13 answer any questions you may have.

14           CHAIR HOCHSCHILD: Thank you, Peter. Let's go to  
15 public comment on Item 7.

16           MR. BADIE: Thank you. The Chair of this  
17 commission welcomes public comments on Item 7 at this time.  
18 If you're in the room with us, we're asking folks to use  
19 the QR code or raise their hand, and if you're joining on  
20 Zoom, you'll use the raised hand feature on your screen or  
21 star nine if joining by phone, and we're going to start  
22 with folks in the room. We have Mary Anderson. Mary  
23 Anderson, if you'd like to make a comment, please approach  
24 the podium. Please spell your name for the record before  
25 beginning your comment. We're asking for comments to be

1 two minutes or less. There will be a timer on the screen.

2 Thank you.

3 MS. ANDERSON: Mary Anderson, Mary, M-A-R-Y,  
4 Anderson, A-N-D-E-R-S-O-N. Good morning, or good  
5 afternoon.

6 My name is Mary Anderson from Pacific Gas and  
7 Electric on behalf of the electric California investor  
8 owned utilities, or California IOUs.

9 The California IOUs comprise of some of the  
10 largest utility companies in the nation serving over  
11 32,000,000 customers. We are committed to helping  
12 customers reduce energy costs and consumption while  
13 striving to meet their evolving needs and expectations.

14 The California IOUs support the California Energy  
15 Commission's leadership and TV appliance standards,  
16 especially in beginning data collection efforts and  
17 aligning with the Federal test procedures.

18 The California IOUs have engaged with the  
19 Consumer Technology Association, or CTA, TV manufacturers  
20 and other advocates on a TV voluntary agreement. We look  
21 forward to continuing our collaboration with CTA, TV  
22 manufacturers and advocates and the CEC on reducing TV  
23 energy use, and we believe that the CEC will make great  
24 strides in being able to achieve this end. Thank you.

25 MS. BADIE: Thank you. We're going to transition

1 to Zoom. We have a phone number ending 528 with a raised  
2 hand. I'm going to open your line. You'll press star six  
3 to unmute. Please spell your name and any affiliation  
4 before you begin your comment.

5 MR. ROSENBERGER-HEIDER: Hello. This is Laura  
6 Rosenberger-Heider.

7 To increase the efficiency of appliances, I feel  
8 really bad. I hate to pollute the environment. My  
9 landlord has this old appliance that is just like not  
10 energy efficient, wasteful, with like natural gas and  
11 everything. I feel really bad about it. I wish my  
12 landlord would upgrade. Maybe this law will get him to do  
13 it. Thanks.

14 MS. BADIE: Thank you, and that concludes public  
15 comment for this item. Back to you, Chair.

16 CHAIR HOCHSCHILD: Thank you. Just before I turn  
17 it over to Commissioner McAllister, I just want to thank  
18 you, Peter, for your professionalism and diligence. Just  
19 been so impressed by what your shop has continued to put  
20 out, and I feel like probably 95 percent of Californians  
21 have no idea that their televisions are subject to an  
22 efficiency standard at all, and it saves \$2,000,000,000 a  
23 year, you know, in energy savings. It's just a great  
24 example of really smart government.

25 This is the role I think for agencies like us to just

1 ensure that wasteful energy projects don't get to the  
2 market in the first place. It saves consumers money. It  
3 reduces pollution, and it makes the job of reliability that  
4 much easier for the grid because we don't have to generate  
5 as much power as we would if we didn't have these  
6 standards, so I just want to really highlight and lift up  
7 you and your whole team and Commissioner McAllister for  
8 overseeing this terrific work. So, with that, over to  
9 Commissioner McAllister.

10 COMMISSIONER McALLISTER: Great. Couldn't have  
11 put it better myself. Thanks, Peter, for the presentation  
12 and just all the hard work and just like your really  
13 career-defining effort to advance supply efficiency  
14 standards. I mean it's just made life better for  
15 Californians in ways that they don't certainly -- mostly  
16 don't appreciate, but that really has saved the economy of  
17 California and far beyond a lot of money and improved our  
18 economic health.

19 I wanted to just sort of state that a different  
20 way and sort of building on what the Chair said. You know,  
21 California's regs were a big market and we move markets.  
22 And so that TV -- the original TV regulation was, you know,  
23 very dialed in for its time. This is the sector that has a  
24 lot of innovation, a lot of technology. You know, every  
25 time you go to the big box there's like all of these



1 amazing TVs and they get better and better every time, they  
2 get bigger.

3           So, fundamentally what's driving this, as you  
4 said, Peter, is alignment with the Federal Government to  
5 use a new test procedure to align with a new test procedure  
6 that is a better test procedure than the ones that we've  
7 been using with the original regs. It's great that DOE did  
8 that, and we want to align with that, but it's also an  
9 opportunity to update and sort of actualize the reg. and so  
10 adapt it to the current market, so great opportunity, great  
11 synergy and really supportive of, obviously, the rulemaking  
12 to explore and make this happen.

13           So, I'll wrap up there, but thanks again, Peter,  
14 and the whole team.

15           CHAIR HOCHSCHILD: Thanks. Commissioner  
16 Gallardo.

17           COMMISSIONER GALLARDO: Thank you, Peter. I also  
18 really appreciated your briefing and great presentation.  
19 Loved the last slide bringing some color to our lives.

20           I was curious about the work group that you  
21 mentioned. If you could talk a little bit about who will  
22 compose the work group, what's the purpose, you know, what  
23 it will be working on, I would appreciate it.

24           MR. STRAIT: Certainly. So, first, internally  
25 our subject matter expert right now is Sachila Pasha, and

1 she actually deserves a lot of the credit for where TVs are  
2 right now. I'm happy to come in with the easy order to  
3 keep going forward, but she's done a lot of the work in  
4 getting here, and before that, Ken Ryder was instrumental  
5 in the original standards, and that was a much different  
6 situation than we are in right now.

7           The work group is hoping to build a collaborative  
8 instead of oppositional relationship with industry  
9 representatives. So, for example, when we talk about  
10 adopting new standards, we don't yet know what specifically  
11 is feasible or cost effective or would make the most  
12 impact.

13           CTA is currently administering a voluntary  
14 program that's similar in some ways to the Energy Star  
15 which is why they helped to create the test pursuits that  
16 DOE has now adopted. And it certainly would be on the  
17 table about leveraging that program, having standards that  
18 might be contingent to where we still have test and list,  
19 we see what the market is doing, and they only become a  
20 mandatory standard if people fall away from that.

21           So, we want to really have a big tent gathering  
22 that pulls in manufacturers and their representatives,  
23 trade groups, just talk about their products, and also  
24 advocacy groups, people that are on the energy side of  
25 things, consumers.

1           We don't want to engage in something that  
2 eliminates the bottom, the lowest cost models of  
3 television, for example, because there's a huge difference  
4 between something you can get for \$300 that might be nice  
5 and big but maybe not that bright versus a really fancy  
6 advanced 8K smart television that's going to cost you  
7 \$3,000. We don't want to put our thumb on the scale that  
8 makes -- that creates any inequities. We want to make sure  
9 that the market remains vibrant, has a lot of product  
10 availability and differentiation, but that energy  
11 efficiency doesn't get left behind.

12           So, really it's about trying to invite as many  
13 people as possible to the table so that we get all of those  
14 perspectives, and most importantly, manufacturers can tell  
15 us a lot about their current products and about, you know,  
16 what really is technically feasible and what represents  
17 most of the market sales.

18           So, it will be comprised of CTA, some of their  
19 membership, other manufacturers that are not participants  
20 in CTA, if there are a few of those, as mentioned, advocacy  
21 groups not strictly in the efficiency realm, like we've had  
22 the case authors and such, but also, you know,  
23 disadvantaged communities advisory committee or some  
24 outside parties that are in the disadvantaged space, and,  
25 honestly, anyone that feels they have a strong enough

1 interest and can bring something to the conversation.

2 COMMISSIONER GALLARDO: Just one follow up. Will  
3 you have consumer representation as well?

4 MR. STRAIT: We would like to. We're not sure  
5 how to best go about that. So, there are certainly  
6 consumer advocacy groups. We don't know who would be the  
7 best person to invite to the table. We're going to try to  
8 do some outreach to see who would respond to an invitation  
9 to participate, but at the moment I don't have someone off  
10 the top of my head that I would say this group or this  
11 individual would represent consumers.

12 COMMISSIONER GALLARDO: Okay, understandable.  
13 Thank you.

14 COMMISSIONER McALLISTER: Just chime in real  
15 quick. So, the Consumer Federation of America has been  
16 really helpful in previous rulemakings, and including this  
17 one for TVs I think. They were pretty engaged. And  
18 they've had a little bit of changing of their guard, but  
19 they're an obvious place that we would go and sort of, you  
20 know, a national voice for consumers in there.

21 And thanks for calling out Sachila. She's been a  
22 star in all this. Thanks, Peter.

23 CHAIR HOCHSCHILD: Any other Commissioner  
24 comments on Item 7? Hearing none --

25 COMMISSIONER McALLISTER: I just want to thank

1 Mary as well, so thank the case teams and just --

2 CHAIR HOCHSCHILD: Can you speak up, sorry, into  
3 the mike. You're a little hard to hear.

4 COMMISSIONER McALLISTER: Sorry. I thought I was  
5 -- there we go. I wanted to thank the case effort and  
6 Mary. Thanks for being here and your collaboration and the  
7 whole team. It's very helpful.

8 MR. STRAIT: And very quickly, I wanted to toss  
9 in our standards don't do much if they're just on the  
10 books. Moni's team and OCAE, Office of Compliance and  
11 Enforcement, really is key to making any of this work, so  
12 kudos to her. Televisions have kept them fairly busy.  
13 There's a lot of actors in that space. There's a lot of  
14 activity in that space. So, we couldn't see success  
15 without.

16 CHAIR HOCHSCHILD: Absolutely. Thank you for  
17 lifting up Moni's work and her terrific team as well.

18 With that, is there a motion from Commissioner  
19 McAllister on Item 7?

20 COMMISSIONER McALLISTER: I'll move Item 7.

21 CHAIR HOCHSCHILD: Is there a second from  
22 Commissioner Gallardo?

23 COMMISSIONER GALLARDO: I second.

24 CHAIR HOCHSCHILD: All in favor say aye.  
25 Commissioner McAllister.

1 COMMISSIONER McALLISTER: Aye.

2 CHAIR HOCHSCHILD: Commissioner Gallardo.

3 COMMISSIONER GALLARDO: Aye.

4 CHAIR HOCHSCHILD: Vice Chair Gunda.

5 VICE-CHAIR GUNDA: Aye.

6 CHAIR HOCHSCHILD: Commissioner Monahan.

7 COMMISSIONER MONAHAN: Aye.

8 CHAIR HOCHSCHILD: And I vote aye as well. Item  
9 7 passes unanimously. Thank you, Peter. Keep up the good  
10 work.

11 MR. STRAIT: Thank you, Commissioner.

12 CHAIR HOCHSCHILD: All right. We had a big week  
13 with the Olympics, and so this is our Olympic item today.  
14 Item 8, Office of Exposition Park Management and the  
15 \$5,000,000 contract for L.A.

16 MS. JONES: Good afternoon Chair and Vice Chair  
17 and Commissioners. My name is Myoung-Ae Jones, and I'm an  
18 Energy Commission Specialist with the Fuels and  
19 Transportation Division.

20 Today I present you with an opportunity we are  
21 very excited about to partner with the Office of Exposition  
22 Park Management, a department within the California Natural  
23 Resources Agency to contribute to building electric  
24 vehicles infrastructure at the park.

25 Expo Park is in a disadvantaged area and there

1 will be a 2028 Olympics venue.

2 Next slide, please.

3 If approved, this product will provide more EV  
4 charging options for local community members and provide  
5 them opportunity to demonstrate innovative energy  
6 transportation nexus technologies.

7 And also, Expo Park is visited by millions of  
8 patrons each year, so this number will increase with the  
9 expansions and upgrades planned for the park beginning next  
10 year.

11 When you add the high profile of an Olympics  
12 venue, this project will provide a global platform for  
13 California's clean transportation message. And the  
14 emission reductions resulting from this project will also  
15 benefit the surrounding community members and visitors to  
16 the park.

17 Next slide, please.

18 Exposition Park is one of California's most  
19 visited destinations comprised of a 160 acre State property  
20 and home to world class museums and sporting venues and the  
21 community assets that educate and entertain. Identified as  
22 a disadvantaged low-income and justice for the  
23 disadvantaged community, Exposition Park and neighboring  
24 area ranks 91st percentile low income households, 96  
25 percentile for a level of a PM 2.5 and the nineties for

1 Diesel particulate matter exposure.

2           The neighborhood also experiences some of the  
3 hottest temperatures and the least green park space per  
4 capital in all of Los Angeles, at 0.2 acres per 1,000  
5 people compared to the national average of 9.9 acres per  
6 1,000 people.

7           So, Exposition Park has a long history of serving  
8 this surrounding community with a variety of services and  
9 educational opportunities through its public programming.

10           The park will be the only site in the world to  
11 host three Olympiads when it hosts the L.A. 2028 Olympics  
12 and the Paralympic Games, together with the 1932 and the  
13 1984 games.

14           In preparation for the Olympic games a major  
15 extension is planned to begin in 2025, and this agreement  
16 will contribute to the EV charging infrastructure build out  
17 portion of this efforts. Incidentally, this building  
18 investment is the largest green infrastructure investment  
19 in the south L.A. area.

20           Next slide, please.

21           The proposed funding for this agreement is for  
22 \$5,000,000. This agreement will fund EV infrastructure  
23 above the code minimum requirements, including  
24 approximately 310 level two and DC fast charging passenger  
25 EV chargers and approximately 19 level 2 and the DC fast



1 charging bus chargers. Currently they do not have any bus  
2 chargers at the park. And a solar energy system with the  
3 battery storage to power the parking structure and EV  
4 chargers to provide grid and resilience benefits.

5 Next slide, please.

6 So, the staff recommends the approval of this  
7 interagency agreement with the Office of Exposition Park  
8 Management and to adapt staff's recommendation that this  
9 action is exempted from CEQA.

10 This concludes my presentation. I'm available  
11 for questions.

12 CHAIR HOCHSCHILD: Thank you. Great  
13 presentation. Let's go to public comment on Item 8.

14 MS. BADIE: Thank you. The Commission welcomes  
15 public comment on Item 8 at this time. If you're joining  
16 us in the room, I will ask that you use the QR code or  
17 raise your hand, and if you're joining on Zoom, you'll use  
18 the raised hand feature on your screen, or star nine if  
19 you're joining by phone. And just giving that a minute.  
20 Not seeing any raised hands for this item. Back to you,  
21 Chair.

22 CHAIR HOCHSCHILD: So, Commissioner discussions,  
23 starting with Commissioner Monahan.

24 COMMISSIONER MONAHAN: Thanks, Myoung-Ae. That  
25 was a great presentation and really pairs well with the

1 fact that the Olympics just ended and we're pretty excited  
2 that the Olympics are going to be in Los Angeles.

3 And Los Angeles Clean Tech Incubator has set  
4 really aggressive goals for transportation, electrification  
5 and load shift, various other things, like 80 percent of  
6 passenger vehicle sales being zero emission by 2028, 40  
7 percent of drayage trucks being zero emission, and so this  
8 kind of fits with this whole basket of like how do we  
9 showcase transportational application and this  
10 transformation of Los Angeles from this smog-choked capital  
11 of the world to this clean energy and clean transportation  
12 model for the rest of the world.

13 So, this is I think just an exciting investment  
14 and look forward to the Olympics coming to L.A. and having  
15 clean air for the Olympic athletes.

16 CHAIR HOCHSCHILD: Well said. Any other  
17 comments? Commissioner Gallardo.

18 COMMISSIONER GALLARDO: I have a question,  
19 Myoung-Ae. I'm not sure if this is appropriate for you or  
20 potentially Commissioner Monahan. Just talking about the  
21 Olympics, I was curious if there are any requirements that  
22 they have when they select cities on clean energy, or  
23 climate goals, or things like that, or if, you know, that  
24 comes into play at all. I'm just curious.

25 COMMISSIONER MONAHAN: You mean the Olympics?

1 COMMISSIONER GALLARDO: The Olympics, yes.

2 Sorry.

3 COMMISSIONER MONAHAN: I don't know. I mean they  
4 definitely had them in smog-choked places, and then they'll  
5 often do like special policies like in China. They would  
6 just stop the, you know, plants from working in order to  
7 have clean air for the athletes. I don't know how much  
8 that's a commitment for the Olympics.

9 MS. JONES: For these expansion efforts they are  
10 looking to have achieve, you know, highest of building  
11 efficiency certification, but currently the funding they  
12 are getting from California Department of Finances is not  
13 enough to achieve a platinum level, so I believe they are  
14 still looking for other sources of funding.

15 COMMISSIONER GALLARDO: All right. But I think  
16 it is excellent, as you mentioned, Commissioner Monahan,  
17 that Los Angeles to be a model for others, so it's  
18 wonderful. Thank you for your great work, Myoung-Ae.

19 CHAIR HOCHSCHILD: Unless there's other comments  
20 I'd welcome a motion from Commissioner Monahan.

21 COMMISSIONER MONAHAN: I move to approve Item 8.

22 CHAIR HOCHSCHILD: Is there a second from  
23 Commissioner Gallardo.

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: Commissioner McAllister.

6 COMMISSIONER McALLISTER: Aye.

7 CHAIR HOCHSCHILD: Vice Chair Gunda.

8 VICE-CHAIR GUNDA: Aye.

9 CHAIR HOCHSCHILD: And I vote aye as well. Item  
10 8 passes unanimously. Congratulations.

11 All right. We'll turn now to Item 9, Center for  
12 Transportation and the Environment. Welcome to Ian.

13 MR. BAIRD: Good afternoon, Chair, Vice Chair,  
14 Commissioners. My name is Ian Baird, on the staff of the  
15 Fuels and Transportation Division.

16 I'm presenting a new agreement titled the  
17 Glendale Municipal Green Zone Construction Work Group.

18 Next slide.

19 On July 14, 2023, the California Air Resources  
20 Board released a competitive solicitation titled the  
21 Advanced Technology Demonstration and Pilot Projects. The  
22 purpose of this solicitation was to fund reliable  
23 technology applications in multiple off-road categories,  
24 including rail, aviation, marine and green zones.

25 The CEC and CARB partnered together to provide

1 225,000,000 for the solicitation with CARB providing  
2 100,000,000 for vehicles, technology and administration and  
3 50,000,000 being allocated by the CEC for purpose of  
4 funding supporting infrastructure, workforce development  
5 and data collection.

6           Additionally, CARB provided 60,000,000 for AB179  
7 commercial harbor craft regulatory compliance with no CEC  
8 funds being allocated to any of those projects.

9           Six total projects were proposed for CEC funding  
10 with the remaining five projects to be approved at future  
11 Business Meetings.

12           Next slide.

13           There are many benefits that will be realized by  
14 the implementation of this project, the first is the  
15 demonstration of innovative medium-duty, heavy-duty  
16 electric vehicle technologies.

17           Secondly, 100 percent of charger installations  
18 from this project will be installed in disadvantaged  
19 communities with overall (indiscernible) ratings in the  
20 99th, 89th and 78th percentile respectively.

21           Thirdly, this project will lead to the  
22 development of a replicable green zone model which can be  
23 shared with other municipalities to be implemented  
24 throughout the state.

25           Next slide.

1           This project will see the creation of a  
2 construction green zone workroom. A green zone is a zero  
3 emission holistic project that can focus on almost any  
4 transportation or equipment operations within a city or a  
5 municipality that currently use combustion technologies.  
6 This will be achieved with the procurement of four electric  
7 medium-duty, heavy-duty vehicles, including a wheel loader,  
8 excavator, dump truck and pickup truck. The vehicle  
9 procurement portion of the project will be funded by CARB.

10           The City of Glendale will install four chargers,  
11 including three 19.2 kilowatt dual-port chargers and one 60  
12 kilowatt charger in support of the construction worker  
13 vehicles. These chargers will also be used in support of  
14 other electric vehicles in the City of Glendale's municipal  
15 fleet and not funded under this agreement.

16           Next slide.

17           Staff recommendation is to approve the grant  
18 agreement with the Center for Transportation and the  
19 Environment, Incorporated and to adopt staff determination  
20 that the project is exempt from CEQA.

21           I'll be happy to address any questions or  
22 comments. Thank you.

23           CHAIR HOCHSCHILD: Thank you. Let's go to public  
24 comment on Item 9.

25           MS. BADIE: Thank you. The Commission welcomes

1 public comment on Item 9 at this time. If you're joining  
2 in the room, we're asking folks to use the QR code or raise  
3 their hand in the room. And if you're joining us via Zoom,  
4 please use the raise hand feature on your screen, or star  
5 nine if joining by phone. We don't have any comments for  
6 this item, so back to you, Chair.

7 CHAIR HOCHSCHILD: Discussion, starting with  
8 Commissioner Monahan.

9 COMMISSIONER MONAHAN: Well, I don't know if  
10 you've been here long enough to have suffered from the  
11 CARB. How long have you been here?

12 MR. BAIRD: Just past four years.

13 COMMISSIONER MONAHAN: Oh, so you were here  
14 through the whole -- so, I just want to -- have you been  
15 working on this whole time with the CARB team on this?

16 MR. BAIRD: In this solicitation it's been about  
17 a year.

18 COMMISSIONER MONAHAN: A year. So, I just want  
19 to say like this is an example where we're, you know,  
20 intentionally partnering with CARB, and I think it's really  
21 good for the community at large, for the grantee community  
22 at large to do this, and it's harder. It takes more work  
23 because the funding is different, the requirements are  
24 different, so just want to thank you and the team that has  
25 been working on this. I'm sure Legal, too, has been

1 working on this a lot.

2 And this is a great example of dealing with a  
3 hard to decarbonize sector which is mostly offroad, some on  
4 road, but that -- and new types of equipment that are not  
5 commonly electrified. So, just excited to support this  
6 basket of kind of innovative projects, including this first  
7 one that's coming.

8 CHAIR HOCHSCHILD: Any other comments? Yeah,  
9 Commissioner Gallardo.

10 COMMISSIONER GALLARDO: I'm curious. Do you know  
11 why Glendale was chosen? Is there a particular reason?

12 MR. BAIRD: I'm not sure. You know, agencies are  
13 always looking to collaborate with other cities. Glendale  
14 just happened to be the one that worked out for CT.

15 COMMISSIONER GALLARDO: Okay, thank you.

16 CHAIR HOCHSCHILD: I'm just -- I'm really  
17 gratified to see electrification begin to expand in other  
18 sectors, and I'll just share on a trip that I did with my  
19 Chief of Staff, Kat Robinson, last year on offshore wind to  
20 Norway, one of the things I was really struck by is the use  
21 of electrification in street construction equipment.  
22 They're now doing electric dump trucks, electric cranes,  
23 electric bulldozers, and, you know, obviously way ahead of  
24 us on that, but it's nice to see us begin to make progress  
25 on this, and I do think the future is very bright for that



1 sector as well. So, this is a really nice project to  
2 support. So, with that, I'd welcome a motion from  
3 Commissioner Monahan.

4 COMMISSIONER MONAHAN: I move to approve Item 9.

5 CHAIR HOCHSCHILD: Is there a second from  
6 Commissioner Gallardo?

7 COMMISSIONER GALLARDO: I second.

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

10 COMMISSIONER MONAHAN: Aye.

11 CHAIR HOCHSCHILD: Commissioner Gallardo.

12 COMMISSIONER GALLARDO: Aye.

13 CHAIR HOCHSCHILD: Commissioner McAllister.

14 COMMISSIONER McALLISTER: Aye.

15 CHAIR HOCHSCHILD: Vice Chair Gunda.

16 VICE-CHAIR GUNDA: Aye.

17 CHAIR HOCHSCHILD: And I vote aye as well. Thank  
18 you. That motion passes unanimously.

19 We'll turn now to Item 10, Charging and Refueling  
20 Infrastructure for Transport in California Provided Along  
21 Targeted High Segments. Welcome to Vivian.

22 MS. NGUYEN: My name is Vivian Nguyen and I'm --

23 CHAIR HOCHSCHILD: Could you move the mike a  
24 little closer? Okay. A little altitude difference. There  
25 we go. Thanks.

1 MS. NGUYEN: Hello. My name is Vivian Nguyen and  
2 I'm an energy analyst from the Fuels and Transportation  
3 Division.

4 Today we are requesting approval for two of the  
5 three agreements resulting from the CRITICAL PATH  
6 solicitation. The third agreement will be presented at a  
7 future Business Meeting.

8 Next slide, please.

9 The solicitation was a competitive grant  
10 solicitation that resulted in slightly over \$34,000,000 in  
11 proposed funding for projects supporting medium and heavy  
12 duty, MDHD, zero emission vehicles, ZEV, charging and/or  
13 hydrogen refueling infrastructure along a targeted  
14 corridor, which is shown in the map on the screen.

15 Going into detail about the corridor shown on the  
16 screen, the corridor is a priority clean freight corridor  
17 which is identified by the California Transportation  
18 Commission and its clean freight corridor efficiency  
19 assessment, which is a multi-agency effort to identify  
20 specific freight corridors that -- the infrastructure  
21 needed to support the development of zero emission MDHD  
22 vehicles in barriers and potential solutions to their  
23 deployment.

24 A total of six applications were submitted for  
25 this solicitation, and the top three applicants that scored

1 the highest were proposed for award.

2 The solicitation required all proposed projects  
3 to include the installation of EV charger or hydrogen  
4 refueling stations for MDHD vehicles at two or more  
5 locations within one linear mile of the priority clean  
6 freight corridor.

7 Additionally, all projects had to be for public  
8 use 24 hours a day, seven days a week year round and were  
9 required to include a workforce plan.

10 Next slide, please.

11 The proposed agreements will benefit California  
12 by reducing greenhouse gas emissions by increasing ZEV  
13 charging and refueling infrastructure networks.

14 Most of California's goods are moved throughout  
15 the state and nation by the trucking industry. On road  
16 freight transportation is the backbone of California's  
17 economy, moving about 3.8 million tons of goods up and down  
18 the state highways daily, yet, these trucks are some of the  
19 least fuel efficient vehicles operating and are some of the  
20 worst mobile sources of greenhouse gases. And while the  
21 freight transportation sector makes up only a small  
22 percentage of total vehicles on road, it has a huge air  
23 quality impact on communities living and working near  
24 heavily trafficked roadways, many of which are  
25 disadvantaged or low income.

1           By expanding the MDHD network along designated  
2 corridors the proposed projects will build our  
3 infrastructure to help meet the MDHD ZEV goals set forth in  
4 Executive Order N-7920, advanced clean trucks and advanced  
5 clean fleet regulations and other applicable statewide  
6 goals and regulations.

7           These projects will also support a coordinated  
8 strategy with other state and Federal agencies for a  
9 corridor buildout statewide, accelerating the adoption of  
10 zero emission MDHD vehicles.

11           Next slide, please.

12           The first proposed project is WattEV's Connecting  
13 California Corridor 3C project. With the proposed award of  
14 slightly over \$13,000,000 across three sites in Fresno,  
15 Stockton and Oakland, this project will be installing 70  
16 240 kilowatt EV chargers and 14 1.2 megawatt EV chargers.

17           With each 1.2 megawatt EV charger having the  
18 ability to charge five vehicles simultaneously at 240  
19 kilowatt each, 140 charging ports are available for  
20 simultaneous usage across the sites.

21           WattEV's project will also have a community  
22 outreach component where job training and recruitment will  
23 be promoted through workforce development.

24           The second proposed project is Prologis's clean  
25 freight refueling hubs. With a proposed award of slightly

1 over \$11,000,000 across two sites in Commerce and Long  
2 Beach, this project will be installing 34 dual-port DCSCs  
3 across 17 600 kilowatt islands with four charging ports  
4 each, totaling 68 charging ports for simultaneous use.  
5 Each island will be able to distribute the 600 kilowatt  
6 simultaneously for all ports leaving 150 kilowatts for each  
7 port, or 600 kilowatts to a single port.

8 In addition, two battery energy storage systems  
9 totaling five megawatt hours of storage capacity will be  
10 installed to lower peak load at the two sites, and two 700-  
11 bar hydrogen dispensing platforms will also be included.

12 Prologis's project will also have a community  
13 outreach component where job training and recruitment will  
14 be promoted through workforce development.

15 In total, Prologis and WattEV's projects are  
16 estimated to serve about 800 to 1,300 trucks per day across  
17 the five sites combined.

18 Next slide, please.

19 Staff recommendation is to approve the two  
20 agreements and adopt staff's determination that these  
21 actions are exempt from CEQA.

22 Thank you. That concludes my presentation. A  
23 representative from Prologis and WattEV's project is on  
24 Zoom and available to answer any questions, and  
25 additionally, I'll be happy to answer any questions. Thank

1 you.

2 CHAIR HOCHSCHILD: Thank you, Vivian. Let's go  
3 to public comment on Item 10.

4 MS. BADIE: Thank you, Chair. Commission  
5 welcomes public comment on Item 10 at this time. If you're  
6 in the room, you can raise your hand, and if you're on  
7 Zoom, please use the raised hand feature on your screen, or  
8 star nine if joining by phone.

9 We don't have anyone in the room. I'm going to  
10 transition to Zoom. Caller ending in 528, I'm going to  
11 open your line. If you could please let us know your name  
12 for the record. We're asking for comments to be two  
13 minutes or less. Call number ending in 528, you'll need to  
14 unmute on your end by pressing star six to make your  
15 comment.

16 NOT IDENTIFIED: Railroads could be less  
17 polluting because that chemical that's in the rubber of car  
18 tires are not in railroad trains at least and they have all  
19 those rubber tires, like trucks with big rubber tires on  
20 the hot road going, it would be better to have railroad  
21 would be more efficient, potentially if it's electrified.

22 (Indiscernible) I think electric is better for the  
23 vehicles because I think hydrogen should be reserved as a  
24 fuel for only hard to electrify industries and all right.  
25 Hydrogen -- well, first of all, if it comes from -- I don't

1 really like hydrogen coming from methane, from natural gas  
2 from the health impact of fracking and oil drilling. And  
3 the only way it's going to be cheap enough is to have a lot  
4 of solar panels on people's roofs and everything is a lot  
5 of energy at some times of the day to split water and do  
6 hydrolysis. All right, thanks.

7 MS. BADIE: Thank you. That concludes public  
8 comment. Back to you, Chair.

9 CHAIR HOCHSCHILD: Thanks. Any discussion on  
10 this item, beginning with Commissioner Monahan?

11 COMMISSIONER MONAHAN: Well, first I want to  
12 thank Vivian for a great presentation in advanced  
13 management and just say to all of you, I would recommend if  
14 you were interested in checking out some sites, WattEV and  
15 Prologis are both investing deeply, and WattEV has gotten a  
16 number of grants from us around deploying infrastructure  
17 for heavy duty vehicles, all chargers I think as of now.

18 But the fact that Prologis is coinvesting in  
19 hydrogen I think is, you know, what we're seeing in the  
20 medium and heavy duty world is a lot of interest in  
21 hydrogen through energized commercial vehicles are bulk  
22 grant program that also is funding a fair amount of  
23 hydrogen, I would say more than a quarter historically as  
24 gone to hydrogen.

25 So, just it's interesting to see like what's

1 happening in the medium- and heavy-duty space and how our  
2 grants are kind of, you know, reflecting what's happening  
3 in terms of industry interest in this.

4 WattEv has I think the largest public station  
5 that has solar plus storage paired with it out in  
6 Bakersfield. Prologis has done some interesting things  
7 with linear generators which is complicated, but, you know,  
8 they're trying to really deploy charging quickly.

9 So, just a recommendation if you're interested.  
10 My office I'm sure can give you information on how to visit  
11 these kinds of sites.

12 CHAIR HOCHSCHILD: Vice Chair.

13 VICE-CHAIR GUNDA: Thank you, Commissioner  
14 Monahan. I just wanted to thank you for the presentation,  
15 Vivian, and also just congratulations on wrapping up this,  
16 you know, solicitation. I would take you up on some of  
17 these site visits. I think, you know, over the last IPER  
18 when you were kind of leading the IPER, Commissioner  
19 Monahan, the opportunity for onsite generation or storage  
20 to support the rapid electrification was seen as a really  
21 good opportunity. So, thank you for this presentation.  
22 Look forward to engaging with you. Thanks.

23 CHAIR HOCHSCHILD: Commissioner McAllister.

24 COMMISSIONER McALLISTER: I really appreciated  
25 the briefing recently, yesterday I think.



1           And it's so great to see so much real estate in  
2 our agendas pushing out so many projects, and it just  
3 reflects this dynamism that's happening in the sector, and  
4 particular this project, you know, a bunch of different  
5 solutions for different context, you know, and having, you  
6 know, solar and battery backup and sort of one thing that  
7 I'm really interested to sort of understand is the -- you  
8 know, how these big medium and heavy duty loads interact  
9 with the grid and how they're managing that, and the  
10 batteries is one way to do that, and just continually  
11 trying to build the toolbox to help smooth the  
12 electrification journey, you know, smooth it out and  
13 provide options for all comers.

14           And, so, I think these projects really help to do  
15 that, and they're going to demonstrate, you know, various  
16 paths forward, so really, really appreciate all the hard  
17 work, so thank you. Managing all these contracts is not  
18 for the feint of heart, so I really appreciate the heavy  
19 lifting. Thanks.

20           CHAIR HOCHSCHILD: All right. Unless there is  
21 further discussion, I welcome a motion on Item 10 from  
22 Commissioner Monahan.

23           COMMISSIONER MONAHAN: I move to approve Item 10.

24           CHAIR HOCHSCHILD: Is there a second from  
25 Commissioner McAllister?

1 COMMISSIONER McALLISTER: Second.

2 CHAIR HOCHSCHILD: All in favor say aye.

3 Commissioner Monahan.

4 COMMISSIONER MONAHAN: Aye.

5 CHAIR HOCHSCHILD: Commissioner McAllister.

6 COMMISSIONER McALLISTER: Aye.

7 CHAIR HOCHSCHILD: Commissioner Gallardo.

8 COMMISSIONER GALLARDO: Aye.

9 CHAIR HOCHSCHILD: Vice Chair Gunda.

10 VICE-CHAIR GUNDA: Aye.

11 CHAIR HOCHSCHILD: And I vote aye as well. Thank  
12 you. I appreciate it.

13 We'll turn now to Item 11, Implementation of  
14 Medium- and Heavy-Duty Zero-Emission Vehicle Infrastructure  
15 Blueprints. Welcome to Esther.

16 MS. ODUFUWA: Good afternoon Chair, Vice Chair,  
17 Commissioners. My name is Esther Odufuwa, staff in the  
18 Fuel and Transportation Division.

19 Today I'll be presenting awards from GFO-23-603.

20 Next slide.

21 Prior to GFO-23-603, in 2022 we released GFO-20-  
22 601, solicitation that provided up to \$200,000 each in  
23 grant funds for planning documents or planning blueprints  
24 that will identify the actions and the milestones that are  
25 needed for implementation of medium- and heavy-duty zero

1 emission vehicles, as well as the related electric  
2 charging, and for hydrogen refueling infrastructure.

3           The solicitation which is 26-01 resulted in 34  
4 agreements shown on the first map on the right. This  
5 blueprint or planning documents are for both public and  
6 private entities across the state of California, and this  
7 includes seaports, airports, council of governments,  
8 cities, colleges, school districts, utility districts,  
9 amongst others.

10           Now to our GFO-23-603, and that's to further our  
11 efforts in expanding the supply of ZEV charging and  
12 hydrogen refueling infrastructure for this medium- and  
13 heavy-duty applications. Again, we released that year GFO-  
14 26-303 which is another competitive grant solicitation that  
15 provided up to \$20,000,000 in grant funds for  
16 implementation of the ZEV infrastructure proposed in the  
17 completed blueprints. There were two groups eligible for  
18 funding, and this solicitation resulted in five proposed  
19 awards for nearly \$25,000,000.

20           So, today we're seeking approval for three  
21 agreements out of the five agreements for nearly  
22 \$15,000,000.

23           The remaining two agreements will be presented at  
24 future Business Meetings.

25           Next slide, please.

1           The various projects proposed today will reduce  
2 greenhouse gas emissions and provide improved air quality  
3 benefits to the truck drivers, the communities they are  
4 serving, ferry terminals and neighboring communities  
5 bordered by multiple sources of pollution.

6           The project will also benefit communities in or  
7 adjacent to disadvantaged low income communities and  
8 priority populations.

9           Next, the developed infrastructure will  
10 facilitate that transition across various applications as  
11 you will see when we continue with the presentation.

12           In addition, these projects will create jobs in  
13 construction, electrical, maintenance, procurement and many  
14 more. Some of the projects will actually partner with  
15 local communities, community-based organizations and city  
16 colleges to deliver workforce benefits through equitable  
17 training opportunities by equipping both current and new  
18 employees with the skills needed for safely handling and  
19 operating high power equipment, thereby supporting economic  
20 growth and investments.

21           Next slide.

22           The three agreements presented today will  
23 utilize, again, nearly \$15,000,000 in CEC funds, and more  
24 than 50 percent of the total project costs in additional  
25 public and private match share contributions.

1           So, the first agreement on the slide is with San  
2   Francisco Bay Area Water Emergency Transportation  
3   Authority, and Water Emergency Transportation Authority  
4   will purchase an electric ferry or boat using funds from  
5   the Bay Area Toll Authority and Metropolitan Transportation  
6   Commission, and nearly \$5,000,000 in CEC funds to install  
7   the charging infrastructure, which include the EVSC and the  
8   battery and storage system.

9           This combination of dock charger and energy  
10   storage is referred to as the charging float, and it will  
11   be designed to hold up to 10 megawatts battery charging  
12   system and 2.5 megawatts of storage.

13           The project site is located at the  
14   (indiscernible) Bay Terminal in Alameda and is surrounded  
15   on three sides by Oakland.

16           The good news is that the WETA or the Water  
17   Emergency Transportation Authority is expanding its fleet  
18   by acquiring two to three additional battery electric  
19   ferries that require more chargers.

20           The second agreement is with the City of Long  
21   Beach, and City of Long Beach will deploy 10 200 kilowatt  
22   DCFC and 4 megawatt battery energy storage systems for its  
23   municipal fleet's yard in Long Beach.

24           The power distribution at this location will be  
25   sufficient to support charging infrastructure without

1 building the grid in the area, and the charging system will  
2 be capable of managing time of charging, charge duration,  
3 charge power and the number of concurrent charging at that  
4 site. And this is in order for them to be able to manage  
5 utility costs and, of course, support the grid reliability  
6 that is needed to support the city's medium-duty, heavy-  
7 duty fleets.

8           The third agreement is with Pilot Travel Centers,  
9 and Pilot will construct two hydrogen fueling lanes at the  
10 existing Pilot Travel Center in Lebec to provide publicly  
11 accessible medium-duty, heavy-duty hydrogen refueling  
12 station. This station is situated just south of  
13 intersection of Interstate 5 and State Route 99, which is  
14 adjacent to several counties like Kern County, Ventura and  
15 San Luis Obispo.

16           The project site will also include a 25,000  
17 gallon liquid hydrogen storage tank that will provide  
18 storage capacity of up to 4,200 kilogram of hydrogen,  
19 dispensing equipment which will provide up to 250 kilograms  
20 per hour of high pressure 870 hydro dispensing per lane,  
21 and this is enough to fuel about 40 class eight fuel cell  
22 trucks per day. Each truck is assumed to have a fuel  
23 efficiency of about 6.5 kilogram per mile with onboard  
24 storage of 70 kilograms and a range of over 400 miles.

25           So, we have some pictures on the slide. The

1 picture -- the first picture is of a floating dock that  
2 would charge the battery electric ferry boats and would  
3 also allow for the loading and unloading of people to and  
4 from the ferry.

5 Now, the next picture is that of the City of Long  
6 Beach charging yard for light- and medium-duty vehicles.

7 The last picture is Pilot's rendering of the  
8 hydrogen refuel station showing a liquid hydrogen delivery  
9 truck and other trucks at the site.

10 Next slide.

11 Staff recommends approval of the three agreements  
12 and adoption of staff determination that the projects are  
13 exempt from CEQA.

14 This concludes my presentation and I am available  
15 for any questions. Thank you.

16 CHAIR HOCHSCHILD: Thank you so much, Esther.  
17 Let's go to public comment.

18 MS. BADIE: Thank you. The Commission welcomes  
19 public comment on Item 11 at this time. If you're in the  
20 room with us, please raise your hand or use the QR code,  
21 and if you're joining on Zoom, please use the raised hand  
22 feature, or star nine if you're joining by phone, and just  
23 giving that a moment. Not seeing any comments for this  
24 item. Back to you, Chair.

25 CHAIR HOCHSCHILD: Okay. We'll turn to

1 Commissioner discussion. Over to Commissioner Monahan.

2 COMMISSIONER MONAHAN: I feel like it's Groundhog  
3 Day, so there's a lot of transportation-related grants  
4 today. I apologize to have them all stacked up. Budget  
5 was part of the reason for that happening, but -- so, this  
6 grant, you know, piggybacked off the blueprints that we  
7 funded. Those were really wildly popular, like to be able  
8 to move swiftly to deploy infrastructure for zero emission  
9 vehicles you actually have to have a plan, and you have to  
10 think about where you want to site it, how it fits with the  
11 grid, and so I love the fact that we funded first the  
12 planning and then the implementation pieces of that, and  
13 so, you know, as you can see, this series focuses on  
14 medium- and heavy-duty. A lot of the funding that we have  
15 from the legislature is line item for medium- and heavy-  
16 duty, so we, you know, want to make sure that we are  
17 supporting the State, supporting their resources for  
18 meeting the needs of the legislature in terms of  
19 prioritizing diesel pollution reduction.

20 CHAIR HOCHSCHILD: Commissioner Gallardo.

21 COMMISSIONER GALLARDO: So, I'll say, Commissioner  
22 Monahan, you shouldn't apologize for all of this. This is  
23 excellent, and the teams are, you know, delivering, and I  
24 mention that because any time I go to an event or with a  
25 group I always get asked about chargers and infrastructure,



1 so this is exciting to see more of it. I just wanted to  
2 highlight that.

3 Esther, thank you so much for the briefing,  
4 wonderful presentation, and I want to emphasize that the  
5 visuals are extremely helpful, at least for me, because I'm  
6 not in this space all the time. I really appreciate seeing  
7 all of that. Thank you.

8 COMMISSIONER McALLISTER: I just wanted to thank  
9 Esther for the briefing and the whole team. It was a very  
10 extensive briefing for this meeting the FTD. But just too  
11 exciting to see all the innovation and all the different  
12 businesses coming forward with great projects, so thanks  
13 for all the due diligence. Thanks.

14 CHAIR HOCHSCHILD: Yeah. And the many, many  
15 first I mentioned in my opening remarks, all the, you know,  
16 electric vehicle school bus fleet in the country to be a  
17 hundred percent electric. This infrastructure we're doing  
18 for the San Francisco Bay Area Water Emergency  
19 Transportation Authority, that's the first charging  
20 infrastructure for electric ferries in North America, and  
21 just, you know, incredible work. So, thank you, Esther,  
22 and thanks to the whole team.

23 And with that, I welcome a motion from  
24 Commissioner Monahan.

25 COMMISSIONER MONAHAN: I move to approve Item 11.

1 CHAIR HOCHSCHILD: And is there a second from  
2 Commissioner Gallardo?

3 COMMISSIONER GALLARDO: I second.

4 CHAIR HOCHSCHILD: All in favor say aye.  
5 Commissioner Monahan.

6 COMMISSIONER MONAHAN: Aye.

7 CHAIR HOCHSCHILD: Commissioner Gallardo.

8 COMMISSIONER GALLARDO: Aye.

9 CHAIR HOCHSCHILD: Commissioner McAllister.

10 COMMISSIONER McALLISTER: Aye.

11 CHAIR HOCHSCHILD: Vice Chair Gunda.

12 VICE-CHAIR GUNDA: Aye.

13 CHAIR HOCHSCHILD: And I vote aye as well. Item  
14 11 passes unanimously. Thanks, Esther.

15 All right. We'll turn now to Item 12, Innovative  
16 Charging Solutions for Medium- and Heavy-Duty Electric  
17 Vehicles. You're on a roll here, Patty. This is a lot of  
18 -- welcome to Marc Perry to present.

19 MR. PERRY: Good afternoon, Chair, Vice Chair and  
20 Commissioners. My name is Marc Perry, staff in the Fuels  
21 and Transportation Division's Commercial and Industrial  
22 Zero Emission Vehicles Technology and Infrastructure  
23 Branch.

24 I'm here to present for approval five proposed  
25 agreements from the innovative charging solutions for

1 medium- and heavy-duty electric vehicle solicitation.

2 Next slide, please.

3 The agreements from the solicitation provide  
4 funding for the development of projects that demonstrate  
5 transformative technology solutions and work to accelerate  
6 the successful commercial deployment of medium- and heavy-  
7 duty electric vehicle charging applications.

8 There were two distinct groups eligible for  
9 funding, Innovative Business Models and Innovative  
10 Technologies.

11 Some examples of Innovative Business Models are  
12 truck stops or charging hubs, charging corridors and  
13 charging as a service.

14 And some examples of Innovative Technologies are  
15 wireless or inductive charging, large-scale ultra-fast  
16 charging and vehicle-to-everything, or V2X technology.

17 In January, 2024, we announced five proposed  
18 awards for the solicitation and we're bringing all five  
19 agreements to you today for your consideration which total  
20 about 33.4 million dollars in CEC funding.

21 Next slide, please.

22 These projects awarded through this solicitation  
23 will benefit -- will provide benefits to California by  
24 reducing the impact of emissions, accelerating the adoption  
25 of medium- and heavy-duty electric vehicles, and providing

1 a blueprint for replicated expansion.

2 Next slide, please.

3 The five agreements that I'm presenting today are  
4 projects that are all located in or adjacent to  
5 disadvantaged and/or low-income communities.

6 The first agreement is Goodwill Industries of San  
7 Diego County which will deploy a smart charging depot in  
8 San Diego County using an innovative charging as a service  
9 model through the installation of 34 chargers, which  
10 include 16 DC fast chargers, four vehicle to grid DC fast  
11 chargers and 14 level two overnight chargers.

12 Next is SkyChargers which will install 12 direct  
13 current fast chargers and 23 level two chargers, as well as  
14 constructing a 1.7 megawatt distributed energy research  
15 resource using solar power and a four megawatt hour battery  
16 energy storage system in the city of National City to  
17 support its trucking as a service business model.

18 Next is Penske Truck Leasing which will install  
19 and deploy about -- not about, but deploy 22 direct current  
20 fast chargers at two sites in the city of Heyward and the  
21 city of San Leandro to support Penske's medium- and heavy-  
22 duty electric vehicle rental fleet.

23 Next is WattEV which will install and deploy  
24 three megawatt charging system chargers and nine direct  
25 current fast chargers to support WattEV's trucking as a

1 service center at the Port of Long Beach.

2 And International Transportation Service which  
3 will install and deploy at its terminal at the port of Long  
4 Beach five inductive or wireless chargers, five direct  
5 current fast chargers and one wireless service mounted  
6 dynamic charging rail capable of simultaneously charging  
7 five electric yard tractors while they are moving.

8 Next slide, please.

9 Staff recommends approval of these grant awards  
10 and adoption of the staff determination that the projects  
11 are exempt from CEQA.

12 This concludes my presentation. Thank you for  
13 your time and consideration of this item.

14 CHAIR HOCHSCHILD: Thanks, Marc. Let's turn to  
15 public comment on Item 12.

16 MS. BADIE: Thank you. This is Mona Badie, the  
17 public advisor. The Commission welcomes public comment on  
18 Item 12 at this time. If you're in the room with us, we  
19 ask you to use the QR code or raise your hand, and if  
20 you're on Zoom, please use the raised hand feature on your  
21 screen, or press star nine if joining by phone. And we've  
22 got a commentor in the room, Claire Zuma. If you want to  
23 approach the podium. We are asking for comments to be two  
24 minutes or less, and there will be a timer on the screen.

25 MS. ZUMA: I am Claire Zuma, Z-U-M-A. I don't

1 specifically have anything against this item number or any  
2 of the last few.

3 I wanted to comment though, however because this  
4 is medium- and heavy-duty vehicles, and in the Sacramento  
5 County it's been a little bit confusing. I might be  
6 barking up the wrong tree. I might need to go to some  
7 other boards like the Sacramento County Supervisors or the  
8 SMUD Board, or the SACRT Board, and I don't know that I  
9 even know that I need to do that, but what I want to say is  
10 that I think we need more clear, healthy public  
11 communication on what can be done with medium- and heavy-  
12 duty trucks that you can actually, if it's in reality now  
13 possible to take bus lines like over high mountains that  
14 are charged electrically and without a problem or if it's  
15 still something that resources aren't quite ready for it or  
16 something like that.

17 Sacramento County I understand that SACRT  
18 recently invested with the Federal Government's help a  
19 hydrogen bus system to replace their current buses. I was  
20 surprised because at the Powering Bus Station there are  
21 brand new Seaman fast chargers and they look empty most of  
22 the time. I tried to use them last year, and I don't know  
23 what's going on with that, and maybe there's not enough  
24 SMUD clean energy to power that or something strange.

25 But I do think we're getting mixed messages

1 seeing these things, just the public eyes, you know, the  
2 consumer base who you want to adopt electric vehicles. In  
3 Sacramento County where people seem really reluctant to go  
4 that direction for some reason, at the Watt Light Rail  
5 Station there are old flow chargers that are in complete  
6 disrepair and unusable. So, you know, there's two light  
7 rail stations and brand new chargers and they're going  
8 hydrogen with SACRT, so I find it unusual and I just really  
9 wanted to ask for more feedback if you guys can push some  
10 clean communications out there to Sac County. Thank you.

11 MS. BADIE: Thank you. We don't have any  
12 commentors on Zoom, and that's the only comment in the  
13 room, so back to you, Chair.

14 CHAIR HOCHSCHILD: Thank you. I will do  
15 Commissioner discussion starting with Commissioner Monahan.

16 COMMISSIONER MONAHAN: Well, I think, as Marc has  
17 elaborated, this is a dynamic time when it comes to  
18 charging, and we have all these independent owner/operators  
19 of trucks who are used to fueling and using their trucks in  
20 a certain way, and because of their quality concerns,  
21 because of CARB regulations, there need to be ways to  
22 support, especially these independent owner/operators to go  
23 zero emission. And some of these innovative, like trucking  
24 as a service, charging as a service, charging for rental  
25 car companies, exploring what -- you know what charging can

1 look like in a hands-free environment, exploring MCS  
2 chargers and how to power them and AC to DC, like this is a  
3 time of great evolution and learning, and we don't know  
4 exactly what the future is going to look like, and so these  
5 series of grants are really about like how do we support  
6 the next generation of fueling for ZEV trucks.

7           And I feel like what we have seen in the light  
8 duty sector is faster and faster charging, that people want  
9 fast charging. They want it now. That has grid impacts.  
10 I'm sure that gives the Vice Chair heartburn and, yet,  
11 that's what we're seeing in the market.

12           And, so, we're trying to just explore through  
13 these grants kind of like, well, let's let a thousand  
14 flowers blooming and really see what the implications are,  
15 see what the best technologies are, see what the best  
16 business models are, and then down the road support those  
17 more deeply.

18           CHAIR HOCHSCHILD: Thank you. Other comments?  
19 Okay. So, with that I'd welcome a motion from Commissioner  
20 Monahan.

21           COMMISSIONER MONAHAN: I move to approve Item 12.

22           CHAIR HOCHSCHILD: And Vice Chair Gunda, would  
23 you be willing to second that?

24           VICE-CHAIR GUNDA: Second Item 12.

25           CHAIR HOCHSCHILD: All in favor say aye.



1 Commissioner Monahan.

2 COMMISSIONER MONAHAN: Aye.

3 CHAIR HOCHSCHILD: Vice Chair Gunda.

4 VICE-CHAIR GUNDA: Aye.

5 CHAIR HOCHSCHILD: Commissioner Gallardo.

6 COMMISSIONER GALLARDO: Aye.

7 CHAIR HOCHSCHILD: Commissioner McAllister.

8 COMMISSIONER McALLISTER: Aye.

9 CHAIR HOCHSCHILD: And I vote aye as well. Item  
10 12 passes unanimously. Thanks, Marc.

11 We'll turn now to Item 13, Regents of the  
12 University of California on behalf of UC San Diego.

13 MR. VILLANUEVA: Good afternoon, Chair, Vice  
14 Chair and Commissioners. My name is Felix Villanueva. I'm  
15 a utilities engineer with the Energy Research and  
16 Development Division in the Building Decarb Unit.

17 I'm presenting a proposed EPIC award with the  
18 regents of the University of California on behalf of the  
19 San Diego campus from a cost share for Federal clean energy  
20 opportunity solicitation.

21 Next slide.

22 This proposed project is a Federal cost share  
23 award in which the CEC will be providing \$75,000 in cost  
24 share that will leverage over 470,000 of funding from the  
25 U.S. Department of Energy's Building Energy Efficiency

1 Frontiers and Innovation Technologies also known as benefit  
2 funding opportunity.

3 This FOA aligns with EPIC's goal of decarbonizing  
4 California building stock by advancing innovative energy  
5 efficiency measures.

6 As commercial buildings decarbonize and improve  
7 to reduce their energy consumption with large heat pumps  
8 and tighter envelopes, plug loads still account for nearly  
9 30 percent of California commercial electricity  
10 consumption. Plug loads are devices that plug into normal  
11 outlets of a building. Lighting has advanced with LED, but  
12 many commercial buildings still lack implementing automated  
13 controls for lights to decrease its consumption.

14 This proposed project will have a goal to reduce  
15 25 percent of a commercial building's plug load and  
16 lighting energy consumption. This proposed project will  
17 have a payback of less than three years with the  
18 installation of integrated controls, and the initial target  
19 is the California higher education market, specifically the  
20 UC campuses which consist of 5,800 buildings with a  
21 142,000,000 square feet of area.

22 Based on a survey of 11 buildings with 1.9  
23 million square feet at UC San Diego campus, the annual  
24 energy savings from this control system were estimated to  
25 be 500 megawatt hours per year. Extrapolating that to all

1 of the UC's 142,000,000 square foot area, the potential  
2 savings are to be 37 gigawatt hours per year. According to  
3 Navigant, commercial office and networking equipment  
4 consumes 3,000 gigawatt hours per year in all California  
5 commercial buildings. If the proposed solution was  
6 implemented in those buildings, the potential energy  
7 savings are estimated to be 760 gigawatt hours per year.

8 Next slide.

9 So, this project is a follow-on project to an  
10 already existing EPIC agreement where UCSD is integrating  
11 plug load controls with building energy management systems  
12 to have a seamless single control platform to manage plug  
13 load in HVAC.

14 Now, this project will take it a step further and  
15 demonstrate the control plus load controllers integrated  
16 with lighting systems. So, UCSD is calling this  
17 Integration Optimized Commercial Control Technology of Plug  
18 Loads and Lighting, also known as OCCTOPI, to connect smart  
19 outlet plug controllers to connected lighting systems using  
20 existing hardware. Occupancy sensors and smart wall  
21 switches will make the existing simple lighting system  
22 connected and enable communication with plug load  
23 controllers, and this project will dynamically control both  
24 systems based on occupancy and demand.

25 In many commercial buildings these devices are

1 still left on, and by scheduling and turning things off  
2 systems when there is no occupancy would help reduce its  
3 consumption.

4 This will be demonstrated at two commercial  
5 buildings, one at the UCSD campus at an 83,000 square foot  
6 center hall, and the other is at a Fairbanks neighborhood  
7 housing services which is a 2,500 square foot office  
8 building located at a DOE designated disadvantaged  
9 community in Fairbanks, Alaska.

10 Now, CEC funds will only go towards the  
11 California-based demonstration.

12 OCCTOPI unlocks the potential of plug load and  
13 lighting loads by providing intelligent energy management  
14 functions such as peak load reduction and demand response  
15 programs.

16 For automation such as this to be accepted in the  
17 workplace, they must maintain a high level of reliability  
18 so as to not interrupt occupant work but still provide its  
19 goal of reducing energy consumption.

20 Next slide.

21 So, with that, staff recommends adoption of  
22 staff's determination this action is exempt from CEQA and  
23 approval for this grant with the regents of the University  
24 of California on behalf of the San Diego campus, and I'm  
25 available for any questions. Thank you.

1 CHAIR HOCHSCHILD: Thank you so much, Felix.  
2 Let's go to public comment on Item 13.

3 MS. BADIE: Thank you. This is Mona Badie again,  
4 the public advisor. The Commission welcomes public comment  
5 on Item 13. If you're in the room with us, you can raise  
6 your hand, and if you are on Zoom, please use the raised  
7 hand feature on your screen, or star nine if joining by  
8 phone. That will let us know you'd like to comment on this  
9 item, and just to give that a moment. Not seeing any  
10 comments for this item. Back to you, Chair.

11 CHAIR HOCHSCHILD: Okay. Let's go to  
12 Commissioner discussions, starting with Commissioner  
13 McAllister.

14 COMMISSIONER McALLISTER: Thanks so much, Felix.  
15 Thanks for bringing this forward. I've been waiting for  
16 the results. You know, these projects keep coming forward,  
17 and the building sector and just the continued  
18 opportunities for digitization and active management are  
19 just, you know, huge still. And it's great to see this  
20 innovation. UCSD is a leader in the space, and plug loads  
21 and lighting, they're not -- it's not super complicated in  
22 theory, but actually the deployment really is pretty  
23 challenging, can be, particularly in existing buildings, so  
24 really, you know, the DOE match program I think is one of  
25 the best things we do. It really does sort of create a

1 positive energy with DOE and sort of I think motivate  
2 people to write their proposals and really reach for the  
3 stars, and I think it's a relatively small investment that  
4 pays -- leverages a lot of other capital, so I really was  
5 happy to support this, really. Thanks a lot.

6 CHAIR HOCHSCHILD: Vice Chair.

7 VICE-CHAIR GUNDA: Thanks, Felix, for the  
8 presentation. I just wanted to appreciate you  
9 extrapolating the information to provide the scale. I know  
10 we discussed in the past about how our projects could  
11 translate, you know, with scale, so just appreciate that  
12 information. Thank you for this.

13 CHAIR HOCHSCHILD: The only other thing, as I  
14 shared earlier, I just returned from Philadelphia giving a  
15 talk at the national conference of all of the college and  
16 university infrastructure planners and looking at, you  
17 know, all the climate-friendly improvements and heat pump  
18 technology, electrification, efficiency measures that need  
19 to be done. I believe that our campuses need to reflect  
20 best practices, and this is where the next generation of  
21 leaders are being educated, come of age and, you know, they  
22 will take those practices out into the country and the  
23 world.

24 And, you know, I think it's really an important  
25 area of focus, and I know some of my colleagues come out of

1 academia. You were at UC Davis right before this, and all  
2 of us in one form or another have worked with our campuses  
3 and UC systems, so for that reason as well I'm happy to  
4 support this, and thank you, Felix for your work.

5 I welcome a motion on Item 13 from Commissioner  
6 McAllister.

7 COMMISSIONER McALLISTER: Move Item 13.

8 CHAIR HOCHSCHILD: Vice Chair Gunda, would you be  
9 willing to second?

10 VICE-CHAIR GUNDA: Second the item.

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

13 COMMISSIONER McALLISTER: Aye.

14 CHAIR HOCHSCHILD: Vice Chair Gunda.

15 VICE-CHAIR GUNDA: Aye.

16 CHAIR HOCHSCHILD: Commissioner Monahan.

17 COMMISSIONER MONAHAN: Aye.

18 CHAIR HOCHSCHILD: Commissioner Gallardo.

19 COMMISSIONER GALLARDO: Aye.

20 CHAIR HOCHSCHILD: And I vote aye as well. Item  
21 13 passes unanimously.

22 We'll turn now to Item 14. Energy Efficiency and  
23 Load Flexibility in Industrial and Commercial Cold Storage.  
24 Welcome to Christian Fredericks.

25 MR. FREDERICKS: Good morning -- I'm sorry, good

1 afternoon Chair, Vice Chair, Commissioners. My name is  
2 Christian Fredericks. I work in the Energy Research and  
3 Development Division.

4 Today I am presenting four recommended awards for  
5 the cold storage solicitation. This solicitation sought to  
6 reduce greenhouse gas emissions, enable load shifting  
7 capabilities, gather railroad energy data to help existing  
8 and planned storage, cold storage and refrigeration  
9 facilities, reduce energy use and costs.

10 Next slide, please.

11 So, there are a total of four awards that came  
12 out of this solicitation. Two projects are located in  
13 southern California, while two are located in the bay area.  
14 University of California, Santa Barbara and Electric Power  
15 Research Institute Projects are in southern California,  
16 Edison's territory, while both Nelumbo and Prospect Silicon  
17 Valley's projects are located in PG&E's territory.

18 For context, the refrigeration sector is quite  
19 large, accounting for an estimated one-third of the total  
20 electrical load of the food and processing sector, and it  
21 accounts for about 825 gigawatt hours per year.

22 I'll go over each project's benefits on their  
23 respective slides, but generally the projects reduce  
24 cooling energy requirements by 15 to 50 percent, swap to  
25 near zero GWP refrigerants such as CO2 and all projects



1 provide an increased capacity for load flexibility.

2 Next slide, please.

3 The first project is with University of  
4 California, Santa Barbara. This project involves a  
5 partnership with an industrial software package called  
6 Atlas. Atlas is a cloud-based software that looks at  
7 facility loads, creates suggestions on how to manage the  
8 load and to reduce peak loads, provides great flexibility  
9 and optimization for refrigerated compressors --  
10 refrigeration compressors. UCSB is working to optimize  
11 their compressors optimization algorithm with machine  
12 learning.

13 Once the project is complete, the developed  
14 software will become fully integrated into Atlas's system  
15 and network. Currently Atlas is installed at 20 facilities  
16 across the United States. The project demonstrate will  
17 occur at lineage logistics and should result in a 15  
18 percent reduction in energy use and a 30 percent reduction  
19 in energy costs due to load shift capacity.

20 Next slide, please.

21 The second project is with EPRI. This project  
22 involves a multi-prong approach to reduce the facility's  
23 cooling load and to provide greater grid flexibility at  
24 Konoike facility.

25 EPRI and its partners will be installing a

1 control system to reduce the evaporators defrost times and  
2 optimize the facility's refrigeration compressors. They  
3 will be installing plant rack-based PCM, or phase change  
4 materials, creating a control system for the facility's  
5 water heaters, and lastly, creating controls for the  
6 facility's forklift chargers. These projects should reduce  
7 the facility's energy requirements by 20 to 40 percent and  
8 provide the facility the capacity to shift around 430  
9 kilowatts of their load.

10 Next slide, please.

11 The third project is with Nelumbo. This is one  
12 of my personal favorites. Nelumbo is partnering with  
13 Daylight Foods to remove and reinstall their evaporators  
14 with a nontoxic coating that should reduce the defrost  
15 times by 20 percent, and thus improve the equipment's  
16 cooling capacity by a corresponding 20 percent. This  
17 coating should last the lifetime of the equipment.

18 What I like so much about this project is that  
19 when an evaporator is installed, serviced or replaced, the  
20 coating may be applied and has a fast, simple payback  
21 period.

22 This project should result in a 20 percent  
23 reduction in energy use for this facility.

24 Next slide, please.

25 The fourth and final project is with Prospect

1 Silicon Valley. This project involves a unique heat pump  
2 design. The heat pump has a tank built into the system  
3 that can store energy and change load profile for the  
4 facility. This is accomplished using CO2 as the system's  
5 refrigerant.

6 This project is taking place at a small facility  
7 located at the Straus Family Creamery.

8 The system should reduce the facility's net peak  
9 load by 50 percent and dramatically increase the system's  
10 efficiency by also around 50 percent.

11 Next slide, please.

12 Staff recommends the approval of these four grant  
13 agreements and adoption of staff's determination that these  
14 agreements are exempt from CEQA.

15 I am available for any questions. That concludes  
16 my presentation. Thank you for your time.

17 CHAIR HOCHSCHILD: Thank you. Let's go to public  
18 comment on Item 14.

19 MS. BADIE: Thank you. The Commission welcomes  
20 public comment on Item 14 at this time. If you're in the  
21 room, you'll just raise your hand, and if you're on Zoom,  
22 please use the raised hand feature on your screen, or star  
23 nine if joining by phone. And just giving that a moment.  
24 All right, not seeing any comments for this item. Back to  
25 you, Chair.

1           CHAIR HOCHSCHILD: Commissioner discussions,  
2 starting with Commissioner McAllister.

3           COMMISSIONER McALLISTER: Great work. Thanks so  
4 much Christian for bringing these forward. This set of  
5 projects gets my blood pumping. The cold storage is like,  
6 you know, sort of the biggest sector that is sort of under  
7 the radar, you know. A lot of stuff needs to be frozen,  
8 and a lot of delicate stuff needs to be cooled, and there  
9 are facilities all over the state, and they don't make a  
10 lot of news, but they consume a lot of energy. So, this is  
11 really an important sector, and also, just efficiency, load  
12 flex, data, heat pumps, it checks all the boxes, all  
13 important stuff, that are, you know, a big part of the  
14 solution.

15           And then the innovation here I think is all these  
16 projects are great for different reasons, but it's great to  
17 see, you know, there are lots of different techniques that  
18 are on the table here, but the final two, they're really  
19 focused on reheat. That's a huge -- that's a part of the  
20 refrigeration cycle that consumes a lot of energy, and it  
21 is just sort of ripe for optimization, and it's really  
22 great to see those two projects as well. So, enthusiastic  
23 and really happy to support this, and really appreciate you  
24 and the team for bringing this forward.

25           MR. FREDERICKS: Thank you.

1 CHAIR HOCHSCHILD: Yeah, I concur, and, you know,  
2 really well said. So, Commissioner Monahan.

3 COMMISSIONER MONAHAN: I'll just be very brief to  
4 say I, too, really like these projects as Commissioner  
5 McAllister and I worked together on industrial  
6 decarbonization, so it's nice to see projects specific to  
7 that.

8 I will say I know you love Project C, but I  
9 really love the last one because who doesn't love ice  
10 cream, and Straus's Family Creamery is one of my favorites,  
11 so, yeah, just excited for these projects to continue and  
12 to visit that last facility and maybe sample some things.

13 CHAIR HOCHSCHILD: Are you excited enough to move  
14 that in.

15 COMMISSIONER MONAHAN: Make a motion to move this  
16 item.

17 COMMISSIONER McALLISTER: Second.

18 CHAIR HOCHSCHILD: Commissioner Monahan, seconded  
19 by Commissioner McAllister. All in favor say aye.  
20 Commissioner Monahan.

21 COMMISSIONER MONAHAN: Aye.

22 CHAIR HOCHSCHILD: Commissioner McAllister.

23 COMMISSIONER McALLISTER: Aye.

24 CHAIR HOCHSCHILD: Commissioner Gallardo.

25 COMMISSIONER GALLARDO: Aye.

1 CHAIR HOCHSCHILD: Vice Chair Gunda.

2 VICE-CHAIR GUNDA: Aye.

3 CHAIR HOCHSCHILD: And I vote aye as well. Item  
4 14 passes unanimously. Thank you.

5 We'll turn now to Item 15, Distributed  
6 Electricity Backup Assets Program Bulk Grid Asset  
7 Enhancements for Grid Reliability. Welcome to Pam.

8 MS. DOUGHMAN: Good afternoon, Chair, Vice Chair,  
9 Commissioners. My name is Pam Doughman and I work with the  
10 Distributed Electricity Backup Assets Programs, also known  
11 as DEBA, within the Ready Division at the Energy  
12 Commission.

13 With me is Dena Carrillo, Director of the Ready  
14 Division and Rene Webster Hawkins from the Chief Counsel's  
15 Office to help respond to any questions.

16 Also, two representatives from the City of  
17 Roseville, Amber Blits and Sean Matchim are available to  
18 help respond to questions.

19 Today we are presenting for your consideration a  
20 proposed grant agreement under the DEBA Program with the  
21 City of Roseville.

22 Next slide, please.

23 For some background on the program, as part of  
24 the Budget Act of 2022, the Legislature and Governor  
25 created a strategic reliability reserve with programs such

1 as the DEBA Program and demand site and grid support, or  
2 DSGS Program, to help meet our emergency grid needs outside  
3 of our normal planning standards.

4 The DSGS and DEBA Programs serve as complementary  
5 programs to help meet grid needs during extreme events.

6 DSGS incentivizes the use of existing load  
7 reduction resources during extreme events, whereas DEBA  
8 incentivizes the purchase of new cleaner and more efficient  
9 distributed energy assets that will serve as on-call  
10 emergency supply on load reduction during extreme events.

11 Next slide, please.

12 DEBA Program has two categories of eligible  
13 projects. The first, bulk grid asset enhancements,  
14 includes efficiency upgrades and capacity additions to  
15 existing bulk grid power generators.

16 The second, distributed energy resources,  
17 includes zero and low emission technologies at existing or  
18 new facilities.

19 The DEBA Program released its first grant funding  
20 opportunity in December, 2023, a \$150,000,000 competitive  
21 solicitation for bulk grid asset enhancements. Today we  
22 are bringing the first proposed agreement for that  
23 solicitation which I will go over in more detail in the  
24 next slides.

25 DEBA Program staff also released this February a

1 draft concept proposal for a grant funding opportunity  
2 focused on distributed energy resources. In light of  
3 modifications made to the program budget in the Budget Act  
4 of 2024, the CEC is working to determine next steps for the  
5 release of the final version of this grant funding  
6 opportunity.

7           Next slide, please.

8           The purpose of the DEBA bulk grid solicitation  
9 was to strengthen electric grid reliability by funding  
10 efficiency upgrades and capacity additions for existing  
11 bulk grid generators. The solicitation prioritized zero  
12 and low emission resources and then conventional resources.

13           A notice of proposed awards recommended five  
14 energy storage projects and four conventional resource  
15 projects for a total of almost \$123,000,000 anticipated to  
16 bring 297 megawatts to support the grid by June, 2027.

17           Staff is recommending a proposed agreement today  
18 with the City of Roseville. We plan to bring additional  
19 agreements for consideration at future Business Meetings.

20           Next slide, please.

21           As part of the DEBA Program, under the strategic  
22 reliability reserve this proposed agreement will improve  
23 the efficiency of existing resources and support grid  
24 reliability during extreme events to provide additional  
25 supply. Incremental capacity resulting from this project



1 must be made available during grid emergencies for a term  
2 of five years from project online date.

3 Next slide, please.

4 The proposed agreement with the City of Roseville  
5 is for about 1.4 million dollars in CEC funds with over  
6 \$7,000,000 in match funding from the City of Roseville.

7 The project will add evaporative coolers and  
8 natural gas compression on two generators to improve  
9 performance on hot days and increase output by 9.5  
10 megawatts for a total output of 54 megawatts, which is  
11 below the amount allowed under the current permit.

12 This project will enable Roseville to be less  
13 reliant on its aging Roseville power plant which has a 60  
14 percent higher heat rate and greenhouse gas output. These  
15 generators are currently owned by the California Department  
16 of Water Resources as part of the State Power Augmentation  
17 Program under the strategic reliability reserve.

18 Roseville's contracts with DWR provide them with  
19 a path to owning the generators no later than the end of  
20 2027 at which point they will remain a part of the  
21 strategic reliability reserve under the DEBA Program and  
22 committed to dispatch during grid emergencies.

23 Next slide, please.

24 This process has been a team effort. I would  
25 like to thank staff from the Siting Division,

1 Administrative Services Division, and the Chief Counsel's  
2 Office for their contributions and assistance.

3 Staff recommends the Energy Commission adopts  
4 staff's determination that this project is exempt from CEQA  
5 and approve the proposed DEBA grant agreement with the City  
6 of Roseville.

7 This concludes my presentation and we are  
8 available to answer any questions you may have.

9 CHAIR HOCHSCHILD: Thank you so much, Pam.  
10 Before we hear public comment, we have a statement the  
11 public advisor is going to read from the Department of  
12 Water Resources.

13 MS. BADIE: Thank you. The statement reads, "The  
14 Statewide Energy Office of the Department of Water  
15 Resources expresses its support for Item 15 on the Energy  
16 Commission's August 14 Business Meeting agenda to approve  
17 agreement DBA-24-001 with the City of Roseville. The  
18 agreement will enable the city of Roseville to remove  
19 current limitations at the power plant and add more  
20 capacity to the grid. Importantly, approval of the  
21 agreement will allow for the inclusion of the resource into  
22 the distributed electricity backup assets program which is  
23 part of the State's strategic reliability reserve. The  
24 Statewide Energy Office thanks the Commission for its  
25 consideration and appreciates the diligent work of Energy

1 Commission staff.”

2           That concludes the statement, and right now we’ll  
3 take public comment on Item 15. If you’re in the room, you  
4 can raise your hand, and if you’re on Zoom, use the raised  
5 hand feature on your screen, and star nine if joining by  
6 phone. I’m just going to give that a quick moment. I’m  
7 not seeing any raised hands for this item. Over to you,  
8 Chair.

9           CHAIR HOCHSCHILD: All right. With that we’ll  
10 turn to Commissioner discussions, starting with Vice Chair  
11 Gunda.

12           VICE-CHAIR GUNDA: Thank you, Chair, and thank  
13 you, Pam, for the presentation.

14           I think I just want to remind kind of the  
15 colleagues on the dais of the importance of moving on this.  
16 DEBA was funded and DSGS was funded the overall it’s like  
17 two components to this. One is the strategic reserve. To  
18 begin with we had to take very tough decision of starting  
19 with OTC power plants. The hope for us was under the DEBA  
20 and the DSGS we are able to over the next two to three  
21 years building the requisite amount of megawatts that are,  
22 you know, cleaner, you know, and can move forward with that  
23 and create the conditions necessary for retiring the OTC  
24 fleet.

25           So, the question particularly with this is DEBA

1 was split into two pieces. One was, you know, as per  
2 statute directed to move into funding some of the  
3 efficiency upgrades to begin with and then kind of the last  
4 of the cleaner stuff.

5 So, this is the beginning of that work, and I  
6 just want to say thanks to Dena, starting with Dena at the  
7 top, Aloke, Ashley, Hudson and Pam, of course, you and many  
8 others who have been tirelessly working on this both from  
9 DWR and well as CPUC and CAISO for their input as we were  
10 working on this.

11 So, I think this is a good step moving forward in  
12 creating that strategic reserve and continuing to reduce  
13 the impacts of the strategic reserve overall. So, really  
14 looking forward to support this.

15 CHAIR HOCHSCHILD: Is there any other comments?  
16 Well, I think you said it well, so with that, I welcome a  
17 motion from the Vice Chair on Item 15.

18 VICE-CHAIR GUNDA: I move Item 15.

19 CHAIR HOCHSCHILD: Is there a second from  
20 Commissioner McAllister?

21 COMMISSIONER McALLISTER: Second.

22 CHAIR HOCHSCHILD: All in favor say aye. Vice  
23 Chair Gunda.

24 VICE-CHAIR GUNDA: Aye.

25 CHAIR HOCHSCHILD: Commissioner McAllister.

1 COMMISSIONER McALLISTER: Aye.

2 CHAIR HOCHSCHILD: Commissioner Gallardo.

3 COMMISSIONER GALLARDO: Aye.

4 CHAIR HOCHSCHILD: Commissioner Monahan.

5 COMMISSIONER MONAHAN: Aye.

6 CHAIR HOCHSCHILD: And I vote aye as well. Items  
7 15 passes unanimously.

8 All right. We'll turn to Item 17, Lead  
9 Commissioner or Presiding Member Reports, starting with  
10 Commissioner Monahan.

11 COMMISSIONER MONAHAN: Well, I won't repeat what  
12 you had said, Chair, about some of the site visits and the  
13 data on new vehicle sales.

14 I will say that I did a number of site tours that  
15 I thought were really interesting. I mentioned this  
16 Prologis tour. I mean it's the largest truck charging  
17 microgrid, we think, in the country, all run with these  
18 linear generators. So, it's totally worth seeing and  
19 talking with them about why they made that choice. They  
20 are committing to connect to the grid. It's LADWP  
21 territory when it's ready, so five-ish years is I think the  
22 timeline, which is why they chose to go with linear  
23 generators in the interim.

24 I also went to TA Centers of America. We gave  
25 them a grant to do public MBHD charging, and I went to the

1 groundbreaking for that which was really fun. BP Pulse is  
2 part of that project.

3           And then based on the Chair's recommendation I  
4 went to visit Vault Post who is trying to put chargers on  
5 telephone poles and basically use existing infrastructure  
6 to provide curbside charging. So, it was great to talk to  
7 them. They're still young as a company and really trying  
8 to break in, and they'll be putting some of those chargers  
9 in Chicago soon and New York as well, so they'll have some  
10 like data on the ground.

11           I also went to visit the Electrify America  
12 Flagship Charging. I guess it's more of like a complex in  
13 San Francisco where there's a place to sit. They have Wi-  
14 Fi, and when we were there it wasn't completely full, but  
15 it was mostly full, and they said in some of their sites  
16 like this they have lines going around the block because  
17 they're so desirous and they're so much of a need for fast  
18 charging in the middle of the day, especially by TNCs. So,  
19 it's a cool thing to see. I would also recommend if  
20 anybody is in San Francisco, check it out. And just the  
21 future of charging, like I said, is changing. People want  
22 to feel safe. We're learning they want to have a lot of  
23 chargers in one place. They like to have fast charging  
24 when they're on the go, and, you know, so our challenge is  
25 really to take these learnings and bring them into our

1 grant programs.

2           And I think I'll stop there. Well, one thing is  
3 we're in the middle of doing a new count for chargers.  
4 We've got some new data that's giving us information about  
5 non-network chargers which we never had before, so we'll  
6 have some, I think, good data soon within the next -- it's  
7 hard to say exactly when because we are doing data quality  
8 check, but very helpful to have this information in our new  
9 charger reliability standards. We're going to be requiring  
10 reporting of chargers, but it's very hard to get non-  
11 networked because those tend to be like small deployed kind  
12 of wildly across the state by small site posts who may not  
13 be aware of regulations or how to report. So, it's a  
14 special challenge getting information about these non-  
15 network chargers.

16           VICE-CHAIR GUNDA: Thank you, Chair. Just a few  
17 pieces. There's a lot going on, but at 30,000 foot level  
18 we've done some electric reliability work over the last few  
19 weeks. As you all know, we've been through that July heat  
20 wave and we were able to maintain grid reliability without  
21 any issues. Those of you who have probably seen a lot of  
22 transmission warnings, you know, I just kind of want to  
23 make sure that you understand it was all coming from local  
24 constraints, fires, and really not a system supply issue,  
25 at least in California.

1           But as to the west, we actually have a new West-  
2 wide peak. We just hit 168 gigs on the West. West-wide we  
3 have a new kind of, you know, peak load. So, that's one.

4           Two, we had an oversight hearing sharing the story  
5 with the Legislature. I think overall we still feel very  
6 optimistic, the rest of the summer. In the first six  
7 months of this year, we added over 4,000 megawatts of new  
8 capacity, and another 7,000 megawatts is in the pipeline  
9 until the end of the year.

10           So, if things play out well we could even see a  
11 10 gig addition this year to the system. That's incredible  
12 progress. But I wouldn't count on 10 gigawatts, but  
13 somewhere, you know, in the high 8,000's probably is  
14 feasible at this point. So, that's a good story for us. A  
15 lot of storage is going to need to be added to the system.

16           One piece I want to comment on as it pertains to  
17 the reliability, one of our concerns was our inability to  
18 add quickly new megawatts, and we were kind of looking at  
19 about 40 percent delays in projects. The first six months  
20 of this year we have seen an average of 11 percent delay  
21 which is significant reduction in delays on the top of this  
22 incredible amount of procurement we have. So, I think  
23 reliability is looking good moving forward.

24           And on the resource planning front I think we've  
25 heard a lot of comments this morning as it pertains to SP-



1 100. The CEC has its own product, the California  
2 Reliability and Resource Outlook that we have an  
3 opportunity to uplift a lot of analysis. So that we've  
4 just published, that report, so it's looking good moving  
5 forward with that and continuing to take and put into the  
6 SP-100 process.

7           Three regional grids. Want to thank Commissioner  
8 McAllister on, you know, collaborating on this, and  
9 Commissioner McAllister and I had the opportunity to work  
10 with Western Pathways Initiative. For those of you who  
11 haven't been tracking closely, yesterday CAISO took a vote  
12 to what is called the step one of the proposal which is to  
13 create more independence for the market operation of CAISO.  
14 I think it's important to note CAISO has two primary  
15 functions. They did balancing area functions with  
16 transmission planning, you know, ensuring that grid in  
17 CAISO territory is managed.

18           There's also another element which is they  
19 oversee markets and kind of work on markets in the west, so  
20 what yesterday's step has done with CAISO is for the market  
21 function to become a little bit more independent from CAISO  
22 board. So, that's an important step in the west as people  
23 consider joining EDAM moving forward.

24           Finally, the fourth point will be working our  
25 offices on petroleum. We've been, you know, tracking very

1 carefully on the petroleum front, and I think we've  
2 established very clearly in a number of our, you know,  
3 hearings and workshops it's really a liquidity issue,  
4 maintaining liquidity in the market will reduce the gas  
5 prices, the gas price spikes, and so we are working on a  
6 number of different tools to keep that liquidity going in  
7 the market this summer.

8           So, that's all, and I think I'm cautiously  
9 optimistic that hopefully we don't see the levels of spikes  
10 of '22 and '23.

11           CHAIR HOCHSCHILD: Thank you. Commissioner  
12 Gallardo.

13           COMMISSIONER GALLARDO: Cautiously optimistic  
14 looks like the whole theme of everything that you said.

15           All right, thank you. I am feeling a little  
16 tired so I'm going to keep it very short, but I have some  
17 visuals. As you all know, I really like visuals, so I  
18 asked for them from staff. I also want to step up and do  
19 that, so we'll go to the next slide.

20           So, this is for you, Chair. I wanted to make  
21 sure that you saw how wonderful it was to have a relaunch  
22 of our Chair's speaker series. So, you had this vision of  
23 bringing in speakers who could simulate or, I don't know,  
24 intellectual and emotional sides and bring connection, and  
25 this is really meant for the staff. We do allow public to

1 join us, especially for this one, but I just wanted to  
2 thank you for relaunching.

3 And this one in particular was just so special,  
4 so a NASA Commander, an astronaut, Jasmin Moghbeli, joined  
5 us, and she did an incredible talk, wonderful presentation,  
6 illuminating, and she's just an incredible human being.

7 So, as you can see in these pictures, staff was  
8 just full of joy. So, if you check out the middle one in  
9 particular, our Public Advisor, Mona Badie, she's very  
10 serious. She could not help herself. She was all smiles,  
11 and it just captures like what the rest of the staff who  
12 attended felt.

13 And I also wanted to point what (indiscernible)  
14 hugging an astronaut, you know, how often do you get to hug  
15 an astronaut. But she was that kind to us.

16 And I also wanted to point out the picture on the  
17 right is my daughter, Chalipo (phonetic). There was an  
18 event after the speaking engagement, and we went to the  
19 community observatory in -- I'm blanking on where it is now  
20 --

21 MS. BADIE: Placerville.

22 COMMISSIONER GALLARDO: It's Placerville. Thank  
23 you, Mona. And I took my daughter and my son, and my  
24 daughter was just so excited, and she just kept telling me,  
25 can we get in front of the astronaut. She wanted to look

1 at her and see what an astronaut looks like, so my daughter  
2 will now know that an astronaut can be anyone, including a  
3 woman of color, so that for me was such an incredible  
4 experience.

5 I want to thank the staff who helped put this  
6 together, aside from thanking the Chair for his vision. I  
7 know the Chair's office was involved, (indiscernible) was  
8 involved and executive office and there may have been  
9 others. This was fantastic. And then also to thank Mosi  
10 who is a friend of the Energy Commission and helped make  
11 this connection. And I think that -- I guess I call her  
12 Commander Moghbeli may be taking another flight potentially  
13 to the moon I think it was. So, anyways, she committed to  
14 come back and talk to us when that happens.

15 So, Commissioner Monahan or Commissioner  
16 McAllister, if you want to add in because you were also  
17 part of that event, please feel free, but I just wanted to  
18 make sure I uplifted it. I have other reports, but on this  
19 if you want to chime in. No?

20 COMMISSIONER McALLISTER: No. I just thought it  
21 was incredibly touching and what an incredible human being.

22 COMMISSIONER GALLARDO: Yeah.

23 COMMISSIONER McALLISTER: So, really great, great  
24 for all of us.

25 COMMISSIONER GALLARDO: All right. We'll go to

1 the next slide. So, I attended the West Coast Arm of  
2 Defense Joint Agency Session. It's just something we do  
3 annually. I think we might be doing it more often now, but  
4 I wanted to thank the staff, Tim Bartridge, Melissa Jones,  
5 Elizabeth Huber and others who helped put this together.  
6 It's a major effort but it brings the West Coast, the  
7 western states, together, California, Oregon, Washington,  
8 to talk about impacts on military and the partnerships that  
9 we have, and that was a great experience to be there to do  
10 that. So, that happened recently. We were talking about  
11 all kinds of things. I won't get into all the topics.

12 And then next slide.

13 I just wanted to uplift, I got to meet Secretary  
14 of Housing Business and Consumer Services, a really long  
15 title, Tameka Moss, and we're really excited to start doing  
16 more with other entities in terms of connecting energy with  
17 other issues, and this one was specifically I joined her  
18 for a visit out in the Coachella Valley which is connected  
19 to the Lithium Valley work that I am doing and there's a  
20 lot of infrastructure that's needed out there, so I wanted  
21 to learn a bit more about what's going on the housing  
22 front.

23 And then I also attended the Inland Empire  
24 Community Foundation Policy and Philanthropy Summit, which  
25 was also wonderful to learn more about what's going on in

1 that area. And they applauded you, Commissioner  
2 McAllister, for the work that you're doing together, Sasha  
3 Pagan in particular, so just wanted to give you a heads up.

4 So, that's on my end. Just wanted to have those  
5 highlights.

6 CHAIR HOCHSCHILD: Love your show and tell with  
7 the photos, so keep it up. Thank you. Okay, Andrew.

8 COMMISSIONER McALLISTER: You're upping the bar  
9 for all of us. I don't know. We're going to have to catch  
10 up at some point.

11 I'll try to keep it short as well. I know that  
12 we're at the end of the meeting mostly, but just a few --  
13 well, one piece of news that you may already know, but the  
14 notice and proposed awards are public for the Equitable  
15 Building Decarbonization Program, which is the big state  
16 funded building decarbonization program that's focused, the  
17 vast majority, well, actually entirely on disadvantaged  
18 communities. So, northern California, central valley and  
19 southern California, really, you know, robust proposals  
20 came in. Staff just, you know, Dina and Jen, Nelson and  
21 Halle Casai, and have to call out Diana Minetta as well who  
22 really managed a lot of this development of guidelines  
23 which are repeatedly being held up as best practice for  
24 program design. And staff worked really hard, did a road  
25 show, got tons of -- multiple rounds of comments and

1 established the guidelines which you all adopted some  
2 months ago.

3           So, that's a huge milestone to get those programs  
4 stood up. Obviously, a lot of steps going forward to get  
5 the contracts in place and do all the programs. But really  
6 excited with the quality and just the engagement of the  
7 administrators. They wrote really compelling proposals,  
8 got great partners and really I think they're a great  
9 foundation for success going forward, so, super happy with  
10 them.

11           Also, the Ready Team is moving forward, making a  
12 lot of progress on getting the Hero in the Homes, the  
13 Federal IRA counterparts to our state funded building  
14 decarb program, moving those forward as well and partnering  
15 with the Department of Energy. So, lots of forward  
16 progress there.

17           You know, we always need to go faster. These  
18 monies are really needed out there in the world, and  
19 they're really moving through the process as quickly as  
20 they can.

21           And collaborating actually with the Efficiency  
22 Division, there's a lot of really great collaboration I  
23 think building muscles between the two divisions.

24           I did want to highlight the Clean Energy States  
25 Alliance Award for the flexible demand appliance standards

1 on pool controls, so that's just I think a recognition of  
2 the innovation of the flexible demand enterprise. It's  
3 really the first kind of milestone for end uses to be  
4 flexible and building regulations to put that in place, and  
5 that's a really key building block for flexibility and  
6 supporting reliability on the demand side. So, kudos to  
7 the staff on that.

8           The group of Energy Commission staff and also  
9 myself and Brian Early, my chief of staff, were down all  
10 last week, most of last week down in Asilomar, the biannual  
11 summer study on energy efficiency in buildings that ACEEE,  
12 the American Council for an Energy Efficient Economy, puts  
13 on. That has been -- it was started by Rosenfeld almost a  
14 half century ago. I've been going since 1992 I think. But  
15 it's really a who's who of building professionals. And  
16 there was a time when it was sort of the same people would  
17 show up, you know, the same 500 people would show up and  
18 just be two years older.

19           But the last couple of them have really been  
20 amazing in terms of you just get the sense that there's  
21 this inner generational transfer of knowledge going on. A  
22 lot of young people with incredible skills come to the  
23 table, and it just gives me a lot of hope that the  
24 technologies that we now have available are being put to  
25 good use and are going to be applied in a responsible way



1 and pervasive across our economy. There's so much more  
2 momentum, so, really happy about that.

3 And then I guess the last thing I want to say is  
4 just riff a little bit of what the Vice Chair said. The  
5 Progress in Pathways, the vote at the CAISO, no big deal.  
6 First step. You know, there's active discussions about  
7 subsequent steps that would broaden the market and really  
8 create a robust west-wide market, you know, within the  
9 governance. We don't want to get ahead of that process  
10 because there's a lot of stakeholders at that table.

11 But, you know, the EIM, at risk of sort of  
12 stating what you all may already know, the EIM is, you  
13 know, it's sort of excess -- it's a relatively small part  
14 of the portion of the energy of the market that flows  
15 around the western interconnection, right. So, it's excess  
16 renewables looking for home, basically, roughly at the  
17 margins. The extended day ahead market, which is the next  
18 sort of step that the CAISO has been working through with  
19 lots of different stakeholders in a very open, you know,  
20 responsible way is the whole market. So, that will be  
21 every kilowatt hour across the west would go through this  
22 market basically.

23 And, so, it's a big deal, and we think there are  
24 a lot of -- everybody acknowledges that there are a lot of  
25 savings available to consumers across the west, and so, the

1 collaborations across the state, just the conversations  
2 that the Vice Chair is leading and Alice, President  
3 Reynolds over the PUC have I think really, really built  
4 solid trusts that's going to help move us forward and make  
5 it successful, so just really I think want to acknowledge  
6 that, you know, this potentially, you know, is an  
7 innovation that helps the west that's going to come once in  
8 a generation kind of thing. So, anyway, cautiously  
9 optimistic I think was the operative term, but, you know,  
10 it's really great to see that process building and the  
11 partnerships deepening, and just everybody bringing their  
12 best selves to those discussions in a selfless way, which  
13 is really happening. It's quite inspirational.

14 So, I think I'll stop there. Thanks a lot.

15 CHAIR HOCHSCHILD: Great. I'm going to just be  
16 super brief because I think I have nothing additional to  
17 add except I do want to highlight the significance of the  
18 Olympics coming to California. I have been in touch with  
19 Andrea Ambries, Exposition Park. I think it would be a  
20 great conversation for us to have together, and perhaps  
21 even have her here as a guest speak at some point to talk  
22 about how we can make this the greatest Olympics yet, and  
23 lift up all the things we're working on, electric vehicles,  
24 and efficiency, and storage, and equity, and everything  
25 else because it's an incredible international platform, as

1 I think we've all seen over the past few weeks.

2           With that, I have a hard stop at 3:00, so I'm  
3 going to thank you guys for hanging in for a long meeting,  
4 and we are adjourned.

5           (The Business Meeting adjourned at 2:58 p.m.)  
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CERTIFICATE OF REPORTER

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

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

IN WITNESS WHEREOF, I have hereunto set my hand this 3rd day of October, 2024.



MARTHA L. NELSON, CERT\*\*367

CERTIFICATE OF TRANSCRIBER

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

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

I certify that the foregoing is a correct transcript, to the best of my ability, from the electronic sound recording of the proceedings in the above-entitled matter.



October 3, 2024

MARTHA L. NELSON, CERT\*\*367