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## BUSINESS MEETING

## BEFORE THE

## CALIFORNIA ENERGY COMMISSION

In	the	Matter of:	)
			)
		Business Meeting	)
			)

CALIFORNIA ENERGY COMMISSION

THE WARREN-ALQUIST STATE ENERGY BUILDING

ART ROSENFELD HEARING ROOM - FIRST FLOOR

1516 NINTH STREET

SACRAMENTO, CALIFORNIA 95814

WEDNESDAY, NOVEMBER 16, 2022 10:00 A.M

Reported by: M. Nelson

#### **APPEARANCES**

#### CEC

## Commissioners

David Hochschild, Chair Siva Gunda, Vice Chair J. Andrew McAllister, Commissioner Patty Monahan, Commissioner Kourtney Vaccaro, Commissioner

# Staff Present:

Dorothy Murimi, Public Advisor

#### Presenters:

Jorge Quintero, Department of Water Resources
David Erne, Energy Assessment Division, CEC
Dorothy Murimi, CEC
Alejandro Galdamez, Efficiency Division Appliances Branch
David Wensil, Fuels and Transportation Division
Thanh Lopez, Fuels and Transportation Division

#### Public Comment:

Daniel Drazan, Enchanted Rock
Sofia Magollon, CAUSE
Claire Warshaw
Gordon Dash, Dash Two Energy
Michael Ivanovich, Air Movement and Control Assoc. Inc.
Mary Anderson, Pacific Gas and Electric
Courtney Cucchissi, EVgo
Charlotte Goodrich, ChargePoint

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Adjournment				

1	PROCEEDING
2	(Start of introductory video)
3	MS. MURIMI: Welcome to the California Energy
4	Commission Business Meeting. Zoom's closed-captioning
5	feature has been enabled to make Energy Commission business
6	meetings more accessible. Attendees can use this feature
7	by clicking on the "Live Transcript" icon and then
8	selecting either "Show Subtitle" or "View Full Transcript."
9	Closed captioning can be stopped by closing out of the Live
10	Transcript or selecting "Hide Subtitle." Those
11	participating solely by phone do not have the option for
12	closed captioning.
13	The Energy Commission will continue to post a
14	recording of this business meeting on the Business Meeting
15	webpage in addition to posting a transcript of this
16	business meeting rendered by a professional court reporter
17	in the docket system on the business meeting webpage.
18	To increase access to the California Energy
19	Commission's proceedings, this meeting is being held in-
20	person and is also available for remote participation.
21	The public can participate in the business
22	meeting consistent with the instructions for remote
23	participation found in the notice for this meeting, and as
24	set forth on the agenda posted to the Energy Commission's

- 1 website. Pursuant to California Code of Regulations Title
- 2 20, section 1104(e) any person may make oral comments on
- 3 any agenda item.
- 4 Once the public comment period begins, to
- 5 indicate you would like to give a comment in-person please
- 6 use the QR codes shown in the room and fill out the form.
- 7 For remote participants, please raise your hand
- 8 by clicking on the "Raise Hand" icon at the bottom of your
- 9 screen. If you are joining by phone, press star nine to
- 10 raise your hand and star six to unmute.
- To ensure the orderly and fair conduct of
- 12 business, public comments will be limited to three minutes
- 13 or less per person for each agenda item voted on today.
- 14 Any person wishing to comment on information
- 15 items or reports which are non-voting items shall reserve
- 16 their comment for the general public comment portion of the
- 17 meeting and shall have a total of three minutes or less to
- 18 state all remaining comments. After the Public Advisor
- 19 calls on you to speak, spell your name and state your
- 20 affiliation, if any.
- 21 Welcome to the California Energy Commission's
- 22 business meeting. The meeting will now begin.
- 23 (End of Introductory Video)
- 24 CHAIRMAN HOCHSCHILD: Good morning, friends. I'm
- 25 David Hochschild, Chair of the Energy Commission. Today is

- 1 Wednesday, November 16<sup>th</sup>, and I call the meeting to order.
- 2 With me are Vice Chair Gunda, Commissioner Vaccaro,
- 3 Commissioner McAllister and Commissioner Monahan. We have
- 4 a quorum. Let's begin with the pledge of allegiance led by
- 5 Commissioner Vaccaro.
- 6 (Pledge of allegiance recited.)
- 7 CHAIRMAN HOCHSCHILD: Thank you, Commissioner.
- 8 So, to begin with I want to recognize the winners
- 9 of 2022 Clean Energy Hall of Fame awards which will happen
- 10 next month.
- 11 We're going to be recognizing Dr. Carol Zabin,
- 12 founder of the University of California Berkeley Labor
- 13 Center for the Green Economy, and she is the winner of our
- 14 Lifetime Achievement award; Kelly Tung, president and
- 15 executive director of the Youth Environmental Power
- 16 Initiative who wins the Youth Game Changer Award; Tishmall
- 17 Turner, vice chair of the Rincon Tribal Council of the
- 18 Rincon Band of the Seminole Indians, you are tribal
- 19 champion; Sean Armstrong, managing principal of Redwood
- 20 Energy is the Fan Energy Champion; Nalleli Cobo, cofounder
- 21 of People Not Pozos and South Central Youth Leadership
- 22 Coalition is a Clean Energy Champion, and Dr. Martinrex
- 23 Kedziora, a superintendent of the Moreno Valley Unified
- 24 School District is a Clean Energy Champion.
- 25 Congratulations of all of you. These leaders

- 1 were chosen out of over 240 nominees and are doing
- 2 absolutely tremendous work on the cutting edge of front
- 3 lines of building a clean energy future for our state.
- 4 So, please join us in celebrating them at our
- 5 ceremony which will be in person, as well as on Zoom,
- 6 December  $8^{th}$  from 2:00 to 4:00 p.m. in our beautiful new
- 7 Natural Resources Agency auditorium here in Sacramento.
- 8 So, look forward to seeing you all there.
- 9 And today we're going to be seeking approval of
- 10 nearly \$8,000,000 in investments contributing to
- 11 California's economic growth recovery.
- 12 We'll turn now to Consent Calendar item 2A
- 13 through E. I should mention at the outset as well, we're
- 14 going to hold Item 7 until our meeting next month.
- 15 So, with that, let's turn to the Consent Calendar
- 16 item 2A through E. Do we have any public comment, Dorothy,
- 17 on Items A through E?
- 18 MS. MURIMI: Thank you, Chair. So, instructions
- 19 for attendees. For those who would like to make public
- 20 comment, if you're calling in, press star nine to raise
- 21 your hand and star six to unmute on your end. If you are
- 22 on Zoom, use the raise hand feature, looks like an open
- 23 palm at the bottom of your screen. We'll give that one
- 24 moment. Seeing no comments, back to you, Chair.
- 25 CHAIRMAN HOCHSCHILD: Thank you. Unless there's

- 1 Commissioner discussion, I'd welcome a motion from
- 2 Commissioner Vaccaro on Items A through E.
- 3 COMMISSIONER VACCARO: Yes. I move approval of
- 4 Items 1A through 1E.
- 5 CHAIRMAN HOCHSCHILD: Vice Chair Gunda, would you
- 6 be willing to second?
- 7 VICE CHAIR GUNDA: Second items A through E.
- 8 CHAIRMAN HOCHSCHILD: All in favor say "aye."
- 9 Commissioner Vaccaro.
- 10 COMMISSIONER VACCARO: Aye.
- 11 CHAIRMAN HOCHSCHILD: Vice Chair Gunda.
- 12 VICE CHAIR GUNDA: Aye.
- 13 CHAIRMAN HOCHSCHILD: Commissioner Monahan.
- 14 COMMISSIONER MONAHAN: Aye.
- 15 CHAIRMAN HOCHSCHILD: Commissioner McAllister.
- 16 COMMISSIONER McALLISTER: Aye.
- 17 CHAIRMAN HOCHSCHILD: And I vote age as well.
- 18 Those items pass unanimously.
- 19 We'll turn out Item 3, information item on the
- 20 Department of Water Resources Electricity Supply Strategic
- 21 Reliability Reserve Agreements. Welcome to Jorge Luis
- 22 Quintero.
- MR. QUINTERO: Hello. Can you hear me?
- 24 CHAIRMAN HOCHSCHILD: Yeah, we can hear you.
- 25 Good morning.

- 1 MR. QUINTERO: Good morning. Good morning,
- 2 Chair, Vice Chair, Commissioners.
- I am Jorge Quintero with the Department of
- 4 Resources, serving as a engineer in the Electricity Supply
- 5 and Strategic Reserve Office.
- 6 This is the first quarterly update to the
- 7 Commission regarding current and planned --
- 8 MS. MURIMI: Apologies, Jorge. If you could turn
- 9 on your video. There you go. Sorry.
- 10 MR. QUINTERO: My apologies for that. I thought
- 11 it did it automatically.
- 12 This is the first quarterly update to the
- 13 Commission regarding current and planned investments for
- 14 California's newly created Electricity Supply Strategic
- 15 Reliability Reserve Program.
- 16 While my focus will be on DWR's activities with
- 17 respect to this program, there is considerable coordination
- 18 with the California Energy Commission, the California
- 19 Public Utilities Commission, and the California Independent
- 20 System Operators. This is a team effort.
- Next slide, please.
- This all started in 2021 with the Governor's
- 23 proclamation issued on July 30, 2021, in response to more
- 24 frequent and compounding effects of climate change, such as
- 25 continuing wildfires, ongoing drought, and extreme heat

- 1 conditions facing California. An energy supply shortage of
- 2 up to 3,500 megawatts during peak periods was projected
- 3 beginning the summer of 2021.
- 4 DWR was tasked with bringing additional resources
- 5 of energy online to address potential grid shortfalls and
- 6 to help keep the lights on and air conditioning running so
- 7 millions of Californians can stay safe during extreme heat
- 8 events.
- 9 As directed by the proclamation, DWR procured and
- 10 installed 120 megawatts of new generation at two locations
- 11 within northern California. This is enough electricity to
- 12 power up to 120,000 homes.
- The program was created under Assembly Bill 205
- 14 which was signed on June 30 of 2022 and amended by Assembly
- 15 Bill 209 which was signed on September 6 of 2022.
- 16 These bills directed DWR, in consultation with
- 17 the Energy Commission and other state agencies, to
- 18 implement projects needed to establish an energy
- 19 reliability reserve to be available during the most
- 20 critical times of the day and year. The funding for this
- 21 program was established through Assembly Bill 178 and
- 22 Assembly Bill 180.
- The extension of the Diablo Canyon Nuclear Power
- 24 Plant was originally contemplated as part of the
- 25 reliability reserve, but was removed by Assembly Bill 209

1	and	moved	to	а	separate	funding	stream	bv	/ Assembly	Bill Bill

- 2 846. While technically it's not a part of the reserve, the
- 3 Diablo Canyon extension similarly serves grid reliability.
- 4 Next slide, please.
- 5 With DWR's successful response to the 2021
- 6 proclamation and understanding that potential shortfalls
- 7 still exist for future summers, Governor Newsom directed
- 8 DWR to use its expertise to deploy and manage additional
- 9 energy resources to safeguard the statewide energy grid.
- 10 DWR, as the fourth largest producer of energy in
- 11 California, is now legislatively tasked to establish a more
- 12 comprehensive program.
- 13 The picture shown here displays two of the
- 14 temporary emergency generators installed in response to the
- 15 2021 Governor's proclamation. These two in particular are
- 16 located in Roseville, California and interconnected to the
- 17 grid within the jurisdiction of the Roseville Electric
- 18 Utility.
- 19 In total, four temporary emergency generators
- 20 powered by natural gas and equipped with emission controls
- 21 limiting air quality impacts, were installed providing up
- 22 to 120 megawatts of electricity to the statewide power
- 23 grid.
- 24 These generators can be deployed guickly under
- 25 emergency declarations by the California ISO. Operators

- 1 can bring these units on line within five minutes.
- 2 These generators were first called upon during
- 3 the 2022 Labor Day heat wave which was a historic five-day
- 4 event.
- 5 Next slide, please.
- 6 This program is designed to support California's
- 7 transition to a clean energy future and is temporary in
- 8 nature.
- 9 With extreme heat, fires and droughts putting a
- 10 strain on the statewide power grid, projects like these are
- 11 a critical part of a broader effort across California to
- 12 help make sure the lights stay on and air conditioners keep
- 13 running.
- 14 Projects under the program will result in a
- 15 diverse set of backup electricity resources acting as an
- 16 insurance policy for all utilities and balancing areas in
- 17 the state.
- 18 The program is planning to increase reserve
- 19 capacity to over 4,000 megawatts in 2024 and over 5,500
- 20 megawatts in 2025.
- Next slide, please.
- DWR has been directed to invest over a billion
- 23 dollars for securing strategic energy reserves.
- 24 DWR's investments include a combination of
- 25 various projects and tasks that start with project

- 1 selection all the way through to ensuring additional
- 2 megawatts are available to the grid during peak emergency
- 3 periods.
- 4 DWR has been increasing its staff and contracting
- 5 additional support to assist with managing and reporting on
- 6 the entire portfolio of reliability reserve projects.
- 7 This is a team effort bringing multiple state
- 8 entities together to work to keep electricity flowing to
- 9 homes and businesses in California.
- Not only are we coordinating with our sister
- 11 agencies, but we will be regularly reporting status through
- 12 meetings like this and to the legislature.
- Next slide, please.
- 14 Securing additional power comes from a variety of
- 15 sources, including clean energy. The goal is to get the
- 16 cleanest energy possible.
- 17 There are five distinct projects under the
- 18 program.
- 19 The first is related to extending the operating
- 20 life of existing generating facilities planned for
- 21 retirement.
- 22 Procurement of replacement megawatts for some of
- 23 these more mature plants has been slower than anticipated,
- 24 and with the State's accelerated electrification it is
- 25 prudent to keep some of these plants on line longer while

- 1 we make our transition to a cleaner energy future.
- 2 The second is new and temporary power generators
- 3 of five megawatts or more. If a generator is operated
- 4 using diesel fuel, the department shall not operate it
- 5 after July 31 of 2023.
- 6 The third is new energy storage systems of 20
- 7 megawatts or more that are capable of discharging for at
- 8 least two hours. Examples include battery storage.
- 9 The fourth is generation facilities using clean,
- 10 zero-emission fuel technology of any size to produce
- 11 electricity. These may include fuel cell technology.
- 12 The fifth is to reimburse electrical corporations
- 13 for the value of imported energy or import capacity
- 14 products that were produced above market costs or in excess
- 15 of procurement authorizations and requirements.
- 16 Part of our selection criteria is driven by
- 17 bringing available megawatts to the grid in a relatively
- 18 brief period of time.
- 19 Due to supply chain issues with more advanced
- 20 technologies, some of the first projects to be implemented
- 21 are centered on the first two categories and securing more
- 22 imports.
- Next slide, please.
- 24 Our 2022 investments include projects within two
- 25 of the five categories: emergency and temporary power

- 1 generators and import energy and import capacity products.
- 2 This included diesel fuel generators, aeroderivative gas
- 3 turbine generators and securing power imports through
- 4 existing transmission corridors.
- 5 We procured and oversaw the installation of 200
- 6 megawatts of natural gas fired and diesel units that were
- 7 ready to deploy during an emergency event.
- 8 The natural gas units have emission controls. In
- 9 the future they can be converted to run on a blend of up to
- 10 75 percent hydrogen. We are working to keep these units
- 11 available for future emergency events.
- 12 The diesel units were available this year, but
- 13 they are not allowed to run under the program after July
- 14 31st of next year. As such, they have already been
- 15 demobilized.
- In regards to imports, California is not an
- 17 electricity independent state. It imports greater than 26
- 18 percent of its energy from other states. This program
- 19 helped to secure 1,400 megawatts through imported energy
- 20 that might not have come into California if left to pure
- 21 market forces and regulatory restrictions.
- 22 The import program is only valid between July 1st
- 23 and September 30<sup>th</sup> of 2022, so we did not include it in our
- 24 future plans. Its impact, as you will see in the next
- 25 slide, would be of great benefit for future summer peak

- 1 needs.
- Next slide, please.
- In 2023, our future investments include project
- 4 within two of the five categories: emergency and temporary
- 5 power generators and extended operations of retiring
- 6 facilities.
- 7 In addition, keeping the natural gas fired units
- 8 as assets in the program's portfolio, we have plans to
- 9 install several more reliable natural gas turbine
- 10 generators with emission control technology.
- 11 We are also looking to extend operations of
- 12 facilities planned for retirement by the end of 2023.
- 13 These megawatts are expected to be available for the summer
- 14 of 2024.
- 15 This includes extending the operating life of six
- 16 once-through-cooling steam units located in southern
- 17 California with a maximum capacity of over 2,800 megawatts.
- 18 The next slide captures an annual look at our
- 19 program's investments over the upcoming years.
- Next slide, please.
- 21 In 2022, the assets under the program's portfolio
- 22 provided a daily contribution ranging a minimum of 554
- 23 megawatts to a maximum of 1,400 megawatts during the 2022
- 24 Labor Day heat wave event.
- Looking forward to 2023, there is an increase in

- 1 the emergency and temporary generation, but you can notice
- 2 the gap without this year's import program.
- Beginning in 2024, we see the larger contribution
- 4 from the facilities that were originally scheduled to
- 5 retire.
- I will make note that this graphic does not
- 7 include efforts related to the Diablo Canyon Powerplant
- 8 extension which would kick in after 2024.
- 9 Next slide, please.
- 10 That conclude DWR's presentation. We are
- 11 available for any questions.
- We also want to let you know that representatives
- 13 of the CPUC and California ISO are also in attendance if
- 14 there are any questions regarding the forecasted need or
- 15 associated regulatory requirements.
- 16 Thank you. Our next updates are scheduled for
- 17 the first quarter of 2023.
- Next slide, please.
- 19 If desired, please follow us on social media via
- 20 Facebook, Twitter, YouTube and Instagram.
- 21 Thank you.
- 22 CHAIRMAN HOCHSCHILD: Thank you so much.
- 23 Appreciate that update, and we look forward to continuing
- 24 the dialogue. Let's open it up to Commissioner and guest
- 25 discussion, maybe beginning with Mark Rothleder.

- 1 MR. ROTHLEDER: Yes. Thank you, Chair, and,
- 2 Jorge, thank you to the DWR team. It really was important
- 3 to be able to ride through and get through this summer in a
- 4 reliable way. We look forward to working with you and your
- 5 team in the future years.
- I think it's important to also mention that this
- 7 is a program that is complementary and in addition to the
- 8 Resource Adequacy Program, and that is the primary focus of
- 9 -- primary approach of meeting reliability needs, but this
- 10 is an approach that really takes it to a next level to be
- 11 able to ride through those more extreme events, whether it
- 12 be weather events, fire events and so forth that are being
- 13 driven by climate change. So, we really appreciate DWR's
- 14 engagement and, again, looking forward to working with you
- 15 in the future on development of this to help the
- 16 reliability of the system. Thank you.
- 17 CHAIRMAN HOCHSCHILD: Okay. Anyone else wishing
- 18 to comment, Colin Wood, Vice Chair Gunda?
- 19 MR. WOOD: Chair Hochschild, I'm here to support
- 20 Mr. Quintero, but I don't have any comments myself.
- 21 CHAIRMAN HOCHSCHILD: Okay. Any other reaction?
- 22 Yeah, go ahead.
- VICE CHAIR GUNDA: Thank you, Chair. Just want
- 24 to take a moment to thank the DWR team and really great
- 25 work, as Mark Rothleder just said. And I want to comment

- 1 specifically, Bazad (phonetic), Ted, Tony and Jorge for
- 2 that excellent work this summer to rapidly deploy the
- 3 resources to help this summer.
- I think there's an opportunity here to just lay a
- 5 few things together and also thank our CEC team
- 6 specifically, both the siting team as well as the AD who
- 7 has been working with DWR and Commissioner Vaccaro whose
- 8 office has been supporting on the permitting side and
- 9 stuff. So, just wanted to say a big thanks to everybody
- 10 who has been working on this, CAISO for your consultation,
- 11 and Pete and the CEC team.
- So, in terms of 30,000 foot level, we just came
- 13 out of a hearing, oversight hearing, on Monday, just about
- 14 there will likely be status, and rightfully so, while we
- 15 have the opportunity to build a strategic reserve, given
- 16 the time sensitivity and given the resources available to
- 17 build a strategic reserve, there is a reliance on fossil
- 18 fuels, and it has been a strong request from the
- 19 legislature, the communities, to decarbonize the strategic
- 20 reserve to the extent that we can, and I just wanted to
- 21 acknowledge the comments from both the leadership at the
- 22 legislature as well as the communities who have raised
- 23 those concerns.
- It's important to note that as we think through
- 25 building the strategic reserve our hope is to decarbonize

- 1 it as we move forward. Apart from DWR's funding, there's
- 2 also funding for CEC through the Distributed Generations
- 3 Assets Program and then also the DSCS program which is the
- 4 Demand Side Load Reduction Program at CEC. Both of them
- 5 are hoped to be cleaner, and we're working together to
- 6 figure out kind of a stacking order on how to deploy the
- 7 cleanest of the emergency sources first before going into
- 8 resources that are move harmful.
- 9 Just wanted to note that as an important element
- 10 both on the recognition that these are break glass measures
- 11 that we are relying on, not necessarily measures that we
- 12 want to rely on, but we're in the situation where we have
- 13 to hold on to some of these assets for the reliability
- 14 concerns, and as we move forward, I think agencies together
- 15 will work together as well as we can to make sure we
- 16 decarbonize the assets that we have to get through the
- 17 emergencies.
- And overall, you know, once we get past the 2026
- 19 timeframe through 2030 timeframe. As the discussions on
- 20 Diablo continue, we have to figure out a strategy on how to
- 21 tackle both the tail ends of the demand, chart these middle
- 22 peaks that we're going to continue to see because of
- 23 climate change, but also the risk from fire and drought.
- 24 So, it's an important element for all of us to work
- 25 together, not just the agencies, but the stakeholders, to

- 1 figure out solutions. And I think the next item, Item
- 2 number 4, that David Erne is going to speak is going to go
- 3 to some of that, so hopefully, you know, we continue our
- 4 path towards clean transition, but also clean emergency
- 5 resources.
- So, with that, I just want to thank again, Jorge,
- 7 thank you for your presentation. It was very clear. I
- 8 look forward to continue to work with everybody.
- 9 CHAIRMAN HOCHSCHILD: Thank you, Vice Chair.
- 10 That was really well said.
- 11 Let me just see if Pete Skala or any of the
- 12 Commissioners, is there anything else you'd like to add or
- 13 contribute? Go ahead, Pete.
- MR. SKALA: My name is Pete Skala. I'm director
- 15 of electricity procurement, supply and costs at the PUC in
- 16 the Energy Division. I'm here representing for President
- 17 Reynolds who couldn't be in today because she's at the COPS
- 18 and may be traveling today. So, she didn't have any
- 19 prepared remarks, but I just want to echo everything that
- 20 Vice Chair Gunda said and Bart Rothleder said. It's been
- 21 -- this is a great resource to have in the toolbox, not
- 22 compete with the RA programs, but to complement them and
- 23 provide those break the glass resources when we need them
- 24 in times of great demand that are outside of our
- 25 traditional planning reserve margins. So, it's -- and it's

- 1 been great working with DWR.
- 2 CHAIRMAN HOCHSCHILD: Great. Commissioner
- 3 Vaccaro, please.
- 4 COMMISSIONER VACCARO: Thank you so much. So,
- 5 thank you for the presentation and just appreciate all of
- 6 the comments so far.
- 7 I kind of wanted to go backwards a little bit to
- 8 that 2021 emergency proclamation that was mentioned in the
- 9 presentation because I think that was really the beginning,
- 10 I think, of some very just tremendous teamwork. CEC, our
- 11 Siting Division, DWR team. We also had partners with PUC,
- 12 California Air Resources Board, local air districts,
- 13 developers like generating partners as well as utilities
- 14 really, you know, worked shoulder to shoulder to figure out
- 15 how to get this work done. And it's carried through to
- 16 today, and I think it's just really, for me, important to
- 17 recognize how much nonpublic facing organization
- 18 coordination was required.
- 19 And, you know, DWR really sets a high bar for
- 20 project management. I think Vice Chair Gunda name checked
- 21 a few people. There is a tremendous team involved, but a
- 22 really high bar for project management that I think our
- 23 team at the CEC has been able to learn from and implement
- 24 as well.
- 25 I've been following this since I was an advisor

- 1 to Karen Douglas and in my role as Commissioner and am just
- 2 so proud of the outcomes, proud of what the teams have done
- 3 together and what I think we're going to be able to do to
- 4 ensure liability moving forward.
- 5 So, really, thank you for the presentation and
- 6 everyone for the hard work.
- 7 CHAIRMAN HOCHSCHILD: Really well said. Thank
- 8 you, Commissioner. Anyone else wishing to make a comment?
- 9 If not, thank you all and thanks for the presentation. I'm
- 10 glad we're on a regular quarterly schedule for these check-
- 11 ins, so look forward to continuing the dialogue. All
- 12 right. Thanks, everyone.
- 13 We'll turn now to Item 4, information item on the
- 14 Request for Information on Investments in Clean Energy
- 15 Resources. Welcome, David Erne.
- MR. ERNE: Good morning, Chair, Vice Chair and
- 17 Commissioners, can you hear me all right?
- 18 CHAIRMAN HOCHSCHILD: Yes.
- 19 MR. ERNE: Okay. I'm going to give you an
- 20 overview of a request for information that we put out last
- 21 week to solicit information on clean energy resources to
- 22 address a number of different requirements that we have.
- We can go to the next slide.
- So, as Jorge mentioned, there are a number of
- 25 legislative -- a number of bills that were passed this last

- 1 summer that affected or addressed reliability. And he
- 2 mentioned some of them in his overview. There are a number
- 3 more that are impacting or provide requirements for CEC,
- 4 and we're going to go through some of those today and talk
- 5 about the need for those.
- 6 We held a workshop on October 28 with the CPUC,
- 7 CAISO and DWR to cover these legislative requirements and
- 8 talk about the activities that need to occur to address
- 9 them.
- 10 The key theme across all of these requirements is
- 11 the need to evaluate potential clean energy resources to
- 12 support reliability between now and 2035. So, that's the
- 13 general theme.
- Most of these assets that we're going to look at
- 15 are assets that would be available all the time, not
- 16 necessarily just during emergencies, just differentiating
- 17 that from some of the requirements of the strategic
- 18 reserve.
- Next slide.
- 20 As I mentioned, there are multiple requirements
- 21 for CEC that are established this summer, and actually one
- 22 last year, that are requiring us to take a look at and
- 23 compare different clean energy resources and how they might
- 24 be providing a value to the grid as well as customers.
- 25 Two of the key ones under SB 846 are to develop a

- 1 clean energy reliability investment plan. This plan will
- 2 be provided to the legislature by March and would be in
- 3 forming potential funding of up to one billion dollars for
- 4 clean energy resource deployment in the state.
- 5 The next one is comparison to Diablo Canyon. So,
- 6 another requirement we have is to provide a recommendation
- 7 or provide an analysis to the legislature by next September
- 8 that looks at resource alternatives that could be deployed
- 9 that as compared to extending Diablo Canyon.
- 10 We also have a requirement -- ongoing requirement
- 11 to consider clean energy resources in our reliability
- 12 analyses. We have another requirement in the SB 8 --
- 13 excuse me, SB 423 to cover firm resources and provide that
- 14 to the legislature next year. And, of course, information
- 15 that we gather will be utilized for our SB 100 report which
- 16 is due in January. So, multiple legislative requirements,
- 17 all asking us to take a look at and compare different clean
- 18 energy resources to support grid reliability.
- 19 As part of the RFI that we put out to collect
- 20 information we provided a preliminary list of resources and
- 21 asked questions about whether those are the right resources
- 22 we should be considering, whether there are ones we should
- 23 add or ones we should take away.
- We also asked for information about the
- 25 attributes for evaluations or how we can evaluate and

- 1 compare these different resources against each other.
- 2 We also asked for information on costs and the
- 3 availability of the resources.
- And, lastly, we included some information or some
- 5 questions to help inform the development of those strategic
- 6 electricity backup assets or DEBA program.
- 7 Next slide.
- 8 I'll just quickly go through a number of slides
- 9 just to show the kinds of resources that we've identified
- 10 thus far. We separated them into supply resources, demand
- 11 resources, and those resources that are both supply and
- 12 demand, depending upon how they're used.
- So, we're asking for information from the public
- 14 about these resources, are there ones that we should be
- 15 adding as well as any that we should be taking away, and
- 16 also information on their performance. So, this was supply
- 17 analysis.
- Next slide.
- 19 Next is the demand resources, number of controls,
- 20 demand response to Anflex thermal storage, et cetera,
- 21 including efficiency.
- 22 And the next slide, slide six, covers those that are
- 23 both supply and demand. So, depending upon how these are
- 24 utilized, distributed technologies could be applied as both
- 25 a demand resource, or they could provide supply depending

- 1 on how they're hooked in.
- Next slide.
- 3 We also asked for feedback on the attributes, so
- 4 we want to be able to qualify each of the attributes of
- 5 these technologies and to be able to compare them.
- 6 We created a list of attributes that we want to
- 7 consider and we think are appropriate to consider. The
- 8 first five we refer to as our achievability factors, so
- 9 it's really the ability to get these resources on the grid
- 10 and provide support now or in the future. So, some
- 11 technologies may be available now; some might be available
- 12 in the next five or ten years. We're considering out to
- 13 2035. So, we want to be able to capture to both those that
- 14 are commercially available now and those that might be
- 15 commercially available within that timeframe and understand
- 16 how those can be deployed.
- We're also looking for attributes to help us
- 18 understand the cleanliness, how easily they can be
- 19 dispatched and how they can provide support to equity
- 20 communities.
- Next slide.
- 22 This just gives a list of the description of the
- 23 definitions of each of these attributes, so these are the
- 24 ones that I refer to as achievability.
- Next slide.

- 1 These are the ones, remaining attributes that we
- 2 are going to be evaluating we put out.
- 3 And, lastly, next slide.
- 4 We'll be considering the qualitative analysis of
- 5 these technologies. So, we'll be considering, as I
- 6 mentioned, availability and when we can get these
- 7 technologies on the grid. So, we'll have something like an
- 8 X or check mark to identify how readily available they are.
- 9 And we might use something like the Harvey Ball approach
- 10 you've probably seen in "Consumer Reports" to qualify each
- 11 of these other attributes to be able to compare the
- 12 technologies.
- 13 Part of what we're also required to do is
- 14 identify the barriers and provide recommendations on
- 15 overcoming barriers. So, just because something shows an
- 16 empty Harvey Ball doesn't necessarily mean that it is a
- 17 problem or is a resource that we don't want to deploy. It
- 18 might mean that we have to identify ways to overcome
- 19 barriers to get that technology on grid and providing value
- 20 quickly.
- Next slide.
- We also provide a list of questions for
- 23 quantitative analysis of the technologies, essentially
- 24 looking at cost and availability of these technologies for
- 25 deployment between now and 2035 and recommended that

- 1 individuals can provide information in different ranges of
- 2 information such as low, medium or high costs and
- 3 availability, so you get some perspective on how quickly we
- 4 can get these technologies out and what they might cost to
- 5 do a cost comparison.
- 6 We also included some questions about the
- 7 development of the DEBA program so that we can help inform
- 8 the development of guidelines for that program which is
- 9 part of the strategic reserve.
- Next slide.
- 11 The RFI went out last Monday. Response are due
- 12 by the 30<sup>th</sup>. Anyone who is interested, provide input to us.
- 13 Please refer to our docket, our reliability docket, which
- 14 is on the slide here, where you can see our RFI and you can
- 15 also provide your information back to us that we can
- 16 utilize in our analysis.
- Next slide.
- 18 We will be taking other information, conducting a
- 19 review of all the public information and the information
- 20 that we're gathering along with our consulting firm,
- 21 Guidehouse. To conduct the analysis, we anticipate having
- 22 a preliminary review in December in a workshop to give an
- 23 overview and solicit additional feedback, and we will be
- 24 having more public opportunities for feedback on these
- 25 resources as we move forward for different purposes.

- 1 As I mentioned, we have multiple deliverables.
- 2 The Clean Energy Reliability Investment Plan is due in
- 3 March, and the comparison to Diablo Canyon is due in
- 4 September, so those are two key ones that this will all
- 5 inform.
- 6 So, with that, I'll finish with my overview and
- 7 I'm open to any questions if you have any.
- 8 CHAIRMAN HOCHSCHILD: Thank you so much, David.
- 9 That was tremendous. Thank you so much. That was
- 10 terrific.
- 11 I'm not sure where that background noise is
- 12 coming from.
- So, both Items 3 and 4 are nonvoting information
- 14 items. We don't typically take public comment on the
- 15 nonvoting items, but Vice Chair Gunda has requested we open
- 16 that up. Let's do that at this time. We'll open up for
- 17 public comment both on Items 3 and 4, so anything related
- 18 to the strategic reliability reserve and procurement of
- 19 clean energy resources for reliability. Dorothy, if you
- 20 open up the line, that would be great.
- 21 MS. MURIMI: Thank you, Chair. For individuals
- 22 that would like to make a comment, if you are on Zoom use
- 23 the raised hand feature which is an open palm at the bottom
- 24 of your screen. And for those calling in on Zoom, go ahead
- 25 and press star nine to raise your hand and star six to

- 1 unmute. We will unmute your line on our end. And please
- 2 state, spell your name, give your affiliation, if any for
- 3 the record.
- We're going to give that one moment. All right.
- 5 I see Claire Warshaw. Please state, spell your name, give
- 6 your affiliation, and you may begin.
- 7 Claire Warshaw, we cannot hear you on our end.
- 8 All right. We'll hold there and we'll move to Daniel
- 9 Drazan. Apologies if I've misstated your name. Please
- 10 state, spell your name, give your affiliation. You may
- 11 begin your comments.
- MR. DRAZAN: Yes, thank you. Can you hear me?
- MS. MURIMI: Yes, we can.
- MR. DRAZAN: Okay, great. My name is Daniel
- 15 Drazan. I'm with Enchanted Rock. We are a microgrid
- developer.
- I just had a question for Mr. Quintero concerning
- 18 if you could maybe explain under the Emergency Temporary
- 19 Power Generation Program involving five megawatts or more,
- 20 I believe you said at the end of 2023 that diesel backup
- 21 generators would no longer be permissible under the
- 22 program. I was wondering if you could explain if that's
- 23 the case or not.
- 24 MR. QUINTERO: That is correct. The legislation
- 25 states that the availability to do diesels ends in 2023,

- 1 July 31st. So, thereafter the field of choice for the
- 2 program would have to be anything besides diesel, so,
- 3 looking at cleaner fuel.
- 4 MR. DRAZAN: Okay. And just real quickly, what
- 5 legislation did you say that was?
- 6 MR. QUINTERO: That's within AB 205 and --
- 7 MR. DRAZAN: 305. Got you. Well, thank you very
- 8 much. Appreciate it.
- 9 MR. OUINTERO: You're welcome.
- 10 CHAIRMAN HOCHSCHILD: Dorothy, do you want to see
- 11 if Claire is still trying to speak.
- MS. MURIMI: My apologies. I was speaking while
- 13 muted. Next is Sofia Magallon. Apologies if I've
- 14 misstated your name. Please state, spell your name and
- 15 give your affiliation.
- MS. MAGALLON: Hi. My name is Sofia Magallon,
- 17 and I am a resident of Oxnard, California in Ventura
- 18 County, and I am here as a policy advocate with the
- 19 nonprofit organization Cause, otherwise known as Central
- 20 Post United for a Sustainable Economy. And we are located
- 21 in the central coast of California, and I will be
- 22 commenting on Item number 3.
- The community in Oxnard has long been
- 24 overburdened by pollution and has fought hard to shut down
- 25 the Ormond Beach generating plant. Initially the plan was

- 1 to shut it down in 2023. And the community of Oxnard has
- 2 85 percent people of color with three power plans and is
- 3 located in a census track in the 94 percentile for
- 4 pollution burden under a Cal Enviroscreen in the middle of
- 5 California's largest wetlands restoration project called
- 6 OBRAP that would end up with opening up green space and
- 7 coastal access for the community.
- 8 And if this plan was to be extended the people of
- 9 Oxnard deserve a community benefits agreement from the
- 10 state to acknowledge that Oxnard residents are bearing a
- 11 burden for all of California's energy reliability here in
- 12 the central coast.
- 13 And recently GenOn, the operator of the plant,
- 14 has agreed to put five to ten million dollars into
- 15 community benefit agreements with the city for the eventual
- 16 clean up and restoration of the plant with these
- 17 negotiations with the city. And here the community is
- 18 asking and proposing to the State of California that they
- 19 match that commitment and do a similar one here with
- 20 stakeholders and community members.
- 21 And thank you for your time.
- MS. MURIMI: Thank you Sofie. We do have -- one
- 23 more time I'm going to see if there are other callers, and
- 24 if you are calling in and would like to make a comment,
- 25 press star nine. And if you are on Zoom, go ahead and use

- 1 the raised hand feature.
- 2 All right. We see Claire. Let's see if you're
- 3 --
- 4 MS. WARSHAW: Can you hear me now?
- 5 MS. MURIMI: Yes, we can.
- 6 MS. WARSHAW: All right. My name is Claire
- 7 Warshaw. I'm a member of the public. Sorry about before.
- 8 I had entered Zoom without turning on my microphone and
- 9 camera in the privacy settings on my Macbook, and so it
- 10 won't work unless I completely go out and back in.
- 11 But quickly, Item 4, I think there is enough
- 12 potential promise in wave energy. I don't know for
- 13 certain, but I do know that in southern California there is
- 14 a test project going on with Eco Wave Power, and I've been
- 15 reading about it on Linkedin. Just knowing that is a
- 16 potential, it really does seem like that could be added to
- 17 the list of things that get investigated under Item 4 for
- 18 potential generation.
- 19 California has a long coast. It's not anything I
- 20 would expect to generate a lot of electricity compared to
- 21 like wind. I don't think it's anything like that from what
- 22 I've read. It's probably closer to something more like
- 23 solar energy or something. But for businesses along the
- 24 coast, and pier businesses, and things that operate off the
- 25 coast it does seem like it's potentially something that is

- 1 of value, especially because you can maintain it from the
- 2 coast. It does look like something that isn't quite as
- 3 scary to operate and potentially could provide some
- 4 generation if that would be useful for California. So, I
- 5 do think that could be investigated.
- 6 Thank you.
- 7 MS. MURIMI: Thank you, Claire, and that
- 8 concludes public -- no, apologies. We have G. Dash, and
- 9 afterwards we have Ravi Menon.
- 10 Please state, spell your name, give your
- 11 affiliation. You may begin.
- MR. DASH: Yes, good morning. My name is Gordon
- 13 Dash, founder of Dash Two Energy. We are a renewable
- 14 hydrogen development company, focus on building zero
- 15 emission fuel cell peak power plants.
- And I just wanted to bring to the Commission's
- 17 attention that, you know, our company is currently working
- 18 under a Epic grant, Epic grant 19305. We're actually
- 19 building a demand-based renewable hydrogen-based project.
- 20 And the project is actually going to start going live in
- 21 January when we're going to start testing our fuel cell
- 22 system, and our electrolyze and storage system will begin
- 23 testing in April.
- So, we look forward to, you know, really getting
- 25 this project going, providing some results to the

- 1 Commission, getting feedback from the Commission in regard
- 2 to the work that we are doing. We have, you know, a lot of
- 3 effort in front of us, but we truly appreciate the Energy
- 4 Commission providing us this grant, and we look forward to,
- 5 you know, providing results and trying to move this project
- 6 faster because we see the great need for peak power,
- 7 particularly zero emission peak power, in the state.
- 8 And, you know, we're also actively working on a
- 9 number of projects that, you know, this grant has been able
- 10 to kind of help us, you know, build our business on, and we
- 11 look forward to that and we appreciate it.
- 12 Thank you.
- MS. MURIMI: Thank you. Next, we have Ravi
- 14 Menon. Apologies if I have misstated your name. Please
- 15 spell your name, give your affiliation. You may begin your
- 16 comments.
- MR. MENON: No, you pronounced it right. Yeah,
- 18 thank you for allowing me to speak today.
- My question was about the qualification of fuel
- 20 cells under DEBA, which is both these supply sources. So,
- 21 it states that fuel cells -- it also states that the
- 22 limitation on the amount of power that can be exported to
- 23 the grid would be one megawatt. Maybe I'm misunderstanding
- 24 that.
- 25 The reason I'm asking that is because we have

- 1 globally systems that are 30 megawatts, going up to 50
- 2 megawatts of hydrogen fuel cells at the same time, natural
- 3 gas based, low emission fuel cells, anywhere from, say,
- 4 under a megawatt to 40 megawatts.
- 5 So, my question is are we allowed to bid on
- 6 projects that are DEBA or the first class of station where
- 7 you have 30 megawatts and about four (indiscernible)
- 8 megawatts or something?
- 9 MR. ENGE: Would you like me to take that, Vice
- 10 Chair?
- 11 So, I don't recall a one-megawatt limit, but we
- 12 are also in the process of developing the guidelines for
- 13 the program. So, I recommend providing your comments
- 14 through the RFI, your technology and what you think that it
- 15 could deliver, and actually if you can provide it year by
- 16 year that would be great so we know what your manufacturing
- 17 capability is like and we can understand that in our
- 18 analysis. That would be helpful.
- MS. MURIMI: Thank you. That concludes public
- 20 comment. Chair, I hand the mike back to you.
- 21 CHAIRMAN HOCHSCHILD: Thank you, everybody. I'll
- 22 just speak very quickly to the question about wave power.
- We have actually funded some demonstrations of
- 24 wave power, but of the three marine energy technologies,
- 25 tidal power, wave power and offshore wind, offshore wind is

- 1 by far the most mature of those and offers the greatest
- 2 benefit which is why we've been focusing on that the most.
- 3 But not to say that somebody will eventually crack the code
- 4 with wind power, and we hope that's the case. So, thank
- 5 you for raising that.
- 6 Let's turn now to Commissioner discussion,
- 7 beginning with Vice Chair Gunda.
- 8 VICE CHAIR GUNDA: Thank you, Chair. I just want
- 9 to begin by thanking David Erne, Pat, Dina, Elizabeth,
- 10 Alicia and anybody who has been involved in daily working
- 11 on the broad scope of 846, 205, 209 and the many bills that
- 12 David just mentioned which are all intersecting on the
- 13 reliability and the investment strategy.
- 14 Also, Chair, thank you for opening it up to the
- 15 public comment. I think it was important to hear public's
- 16 comments on these two items as we continue to very rapidly
- 17 deploy and deploy a strategy on this one, so thank you.
- 18 A couple of high-level framing things. I think
- 19 it's important to be on the record, I think as we
- 20 mentioned, on item number three, we are in a situation of
- 21 making sure we have our clean energy conversation and
- 22 actually bid completed as quickly as we can with some
- 23 levels of insurance on the side to ensure that we can
- 24 tackle climate-driven volatile conditions on the grid. So,
- 25 that's really what 205, 209 and 846 are attempting to do.

- 1 And there's a number of statutory requirements that CEC in
- 2 consultation with DWR, CAISO and CPUC, but all of
- 3 independently also have.
- 4 And I want to just highlight and elevate what
- 5 Commissioner Vaccaro mentioned. There has been deep
- 6 coordination between all four agencies, and we are working
- 7 together both in front of the scenes, behind the scenes to
- 8 double up a robust strategy on ensuring some of these
- 9 principles, which is reliability, safety, affordability, as
- 10 well as equity.
- 11 So, we're working on all those four framings, but
- 12 it has been a difficulty in the short timeframe to have
- 13 robust public discussions, and we both appreciate the
- 14 voices that are from these public meetings, but also taking
- 15 the time to providing us regular feedback.
- So, just want to give a big thank you for your
- 17 time in constantly helping keep us accountable, but also
- 18 shaping this important program that's essential for the
- 19 broad transition of California's climate goals.
- I think it's important to note that at the end of
- 21 the day, at least for me personally, if we can't keep the
- 22 lights on during this transition, our entire climate agenda
- 23 will be undermined, which is predicated on large swaths of
- 24 the economy being electrified. So, it's extremely
- 25 important to keep the lights on and keep the system

- 1 reliable, but having said that, it is important for us to
- 2 maintain the principles of equity which we are short on.
- 3 And we have to continue to move forward to ensure that
- 4 equity becomes a foundation.
- 5 But I want to be both acknowledging the full
- 6 reality right now that we are relying on fossil generation,
- 7 especially in communities of concern, and we hear your
- 8 voices and we -- and I think Sofie from CAUSE mentioned
- 9 about, you know, supporting the communities, and thank you
- 10 for your advisement and guidance, and we'll take that into
- 11 consideration as we continue to think through how best to
- 12 deploy the funds.
- 13 For the record, I just wanted to ask David Erne if he
- 14 could just comment on when the RFI results are going to
- 15 come back.
- MR. ERNE: Thanks, Vice Chair. So, the RFI
- 17 comments are due by November 30<sup>th</sup>. We also have some
- 18 comments coming in from our October 28th reliability
- 19 workshop, and there's been some question from folks about
- 20 whether they can respond to one or the other, or both, and
- 21 so we're basically saying one or the other is fine, but
- 22 we're gathering that information now from both the workshop
- 23 and from the RFI and have them all assembled by the end of
- 24 the month.
- 25 And in conclusion I just want to say, Vice Chair,

- 1 thank you again for your leadership in this area, for all
- 2 of the work that you've done to help keep the lights on our
- 3 last few years and in coordination with the other agencies
- 4 and leadership has been really phenomenal to work with.
- 5 VICE CHAIR GUNDA: Thank you. David, thanks for
- 6 the kind words. I also want to just elevate the CCO and
- 7 our Executive Director who usually doesn't like the
- 8 spotlight on him, and for all the work he's doing behind
- 9 the scenes to get everything moving forward. And it's --
- 10 whether it's visible or not, this is a very integrated work
- 11 for reliability, as we mentioned and part of our meetings,
- 12 so, Commissioner McAllister, Commissioner Monahan,
- 13 Commissioner Vaccaro, all the pieces come together under
- 14 the leadership of the Chair, so, thank you so much for all
- 15 the work and look forward to continuing the dialogue and
- 16 making sure the transition is equitable, and safe, and
- 17 reliable. Thank you.
- 18 CHAIRMAN HOCHSCHILD: Thank you, Vice Chair.
- 19 Let's go to Commissioner Vaccaro.
- 20 COMMISSIONER VACCARO: Thank you. So, David,
- 21 thanks so much for the presentation. I just have maybe
- 22 just a couple of questions for you.
- 23 What really caught my attention in the RFI and on
- 24 your slide was the part about permitting, and that you put
- 25 that in sort of the achievability column. And I'm kind of

- 1 curious about the lens through which we will be looking at
- 2 the comments that we receive and what we're thinking about
- 3 in terms of achievability.
- I notice on the slide in the parenthetical it
- 5 said "local, CEQUA," and I'm just sort of wondering is
- 6 there an objective lens, is it a subjective lens. I mean
- 7 CEQUA is the law, right. That's just like what you do when
- 8 someone comes in to get an entitlement, and if it meets
- 9 certain requirements then, of course, you're going to go
- 10 through the CEQUA process.
- 11 So, I'm just curious about what the thinking is
- 12 for putting permitting in achievability, why we attach
- 13 CEQUA to that, what we mean when we put local in the
- 14 parens, if you could just put a little bit of color on
- 15 that, and then how we're going to be looking at the
- 16 information we get in response to that item, for example.
- 17 So, if there's anything that you wish to say on
- 18 that I'd be really curious. I think you probably know
- 19 permitting is an area where I spend a lot of time, and
- 20 energy, and thinking and, so, that I'm really intrigued by
- 21 what we are hoping to get in terms of information, what we
- 22 might be doing with that information.
- MR. ENGE: Thank you, Commissioner. So, the
- 24 intent of that is simply to give reference to the types of
- 25 permitting or the drivers for permitting not to undercut

- 1 CEQUA or any other requirements.
- 2 But we have noted with a number of new projects
- 3 coming on line that the challenge of getting the permitting
- 4 in place, getting the permitting done, is very time
- 5 consuming for all entities involved, and the recognition is
- 6 is there a way that we can help expedite that, is there a
- 7 way that the state can make that more efficient in a way
- 8 that we don't hinder the development of these technologies
- 9 but also don't hinder our environmental situation or
- 10 safety.
- And, so, we know there's an issue. We want
- 12 people to talk about that and express their concerns or
- 13 their issues, but also understand that we should be looking
- 14 at ways that we can make that process more streamlined so
- 15 that is not something that's holding up getting megawatts
- 16 on line, nor is it something that is affecting safety or
- 17 environment.
- 18 COMMISSIONER VACCARO: Yeah, thank you. And I'll
- 19 just sort of put it out there. I think it goes without
- 20 saying, but I stand ready, my office stands ready and the
- 21 staff team as well to sort of think through some of those
- 22 topics related to permitting and where we can find
- 23 efficiencies, right, and as you say, without undermining or
- 24 bridging in any way things that are also important in terms
- 25 of environmental protection.

- 1 So, thanks for the answer, and please feel free
- 2 to look our way if you want our input.
- MR. ENGE: And I'll just add, if I can, add one
- 4 more item, and that is we have the TED task force Tracking
- 5 Energy Development Task Force, which is helping overcome
- 6 some of these challenges.
- 7 In some cases, it is simply providing a central
- 8 point that talks to the developer, the utility and the
- 9 county or the permitting authority to help expedite
- 10 communication or help expedite the process and improve
- 11 communication among the entities. So, it's not necessarily
- 12 a whole new administrative change that has to happen.
- 13 Sometimes it structures like the TED task force that can
- 14 help just get some of the miscommunications that can happen
- 15 during any construction project.
- 16 COMMISSIONER VACCARO: Thank you. That's a great
- 17 example. Appreciate it.
- 18 CHAIRMAN HOCHSCHILD: Let's go to Commissioner
- 19 McAllister.
- 20 COMMISSIONER McALLISTER: Yeah. Thanks very
- 21 much, and also Jorge and team DWR. You know, it takes a
- 22 much greater village to get all this done, and, so, just
- 23 really appreciate all the collaboration, and second, kudos
- 24 to the Chair and Vice Chair again for their leadership on
- 25 this.

- 1 And I'm, you know, obviously and surprisingly
- 2 perhaps interested very much in the load shift goal for,
- 3 you know, for SB 846, and, you know David, maybe you could
- 4 sort of talk about how you're thinking about that piece of
- 5 our, you know, new responsibilities on the reliability
- 6 front.
- 7 I think we're all -- you know, it's great to see
- 8 this kind of consensus building up about load being -- you
- 9 know, with respect to load being part of the solution for
- 10 not just reliability, but cost management and
- 11 decarbonization over the next couple decades. And, so, I
- 12 think there's just so much synergy with this effort with
- 13 some of the demand side efforts that we're doing, you know,
- 14 with the recently adopted load management standards, and
- 15 potential for the building code, and appliance standards,
- 16 and just really using technology for good to manage load in
- 17 a way that just really has never been done at the kind of
- 18 scale we're talking about.
- 19 So, this seems like a great opportunity to really
- 20 knock it out of the park with this report and this planning
- 21 around load shift. Kind of wondering what your initial
- 22 thoughts on that are.
- 23 MR. ENGE: Thank you, Commissioner. A little
- 24 slow on getting off mute there.
- 25 So, we are currently conducting some analysis in

- 1 this area to help inform that, that deliverables for a
- 2 while, so we had a lot of time relatively speaking,
- 3 although it is a complex topic. And we also are intending
- 4 to have a number of workshops associated with this effort.
- 5 But we're currently taking a look at different
- 6 structures for load flex and for load shifting to try to
- 7 get some perspective on different opportunities, different
- 8 structures, and also then try to understand what might be
- 9 raised that would increase or maximize the opportunity for
- 10 the state moving forward. So, that analysis is ongoing and
- 11 we'll make sure to brief you out on that as we continue to
- 12 build that out.
- 13 COMMISSIONER MCALLISTER: Great. And I left
- 14 transportation off of my list which arguably is the biggest
- 15 wedge for potential for load shift. So, I didn't mean to
- 16 do that, Commissioner Monahan.
- 17 So, definitely, obviously, we want to work
- 18 integrally with you and the team on that, and, you know,
- 19 really make that wedge be all it can be on the load side.
- 20 MR. ENGE: And Vice Chair has been working
- 21 associated with how we can also consider this for
- 22 reliability purposes, so I'm not sure, Vice Chair, if you
- 23 have any additional comments you want to make.
- VICE CHAIR GUNDA: Yeah, thanks, David. I think
- 25 you set it up really well, and I think, Commissioner

- 1 McAllister, to your point, it's really crosscutting,
- 2 especially on the load management standards and the
- 3 (indiscernible) that you just mentioned that touches both
- 4 you and Commissioner Monahan really broadly.
- 5 So, I think a couple of elements on this. We
- 6 have been contemplating, and I think we'll hopefully have a
- 7 more public discussion through the workshops, is the way we
- 8 want to think about the overarching demand site resources
- 9 and the wedge of demand flexibility and load shed within
- 10 that, and what are the different measures, right, to kind
- 11 of what levels they can support.
- 12 So, one of thinking that, you know, David and a
- 13 bunch of us have been talking through is do we want to kind
- 14 of think about some sort of a tiered system, right, so like
- 15 a part of demand side resources could easily load follow,
- 16 right.
- 17 So, then we edit through automation, through
- 18 other ways we double up incentives to really load follow.
- 19 Then there are a couple of other tiers which are
- 20 extreme buttons, right. Like how do we quantify, you know,
- 21 stack them into rates, for example, we've been getting
- 22 anecdotally in consumers that currently have, you know,
- 23 Tesla wall packs or other behind the meter storage are
- 24 generally comfortable to discharge up to 20 percent, if
- 25 they have it, and then that's not a big issue.

-								_			
	l	And	then	VOU	have	this	tranche	$\circ$ t	2.()	t.o	50

- 2 percent, and below 50 percent people don't want to go. And
- 3 how do you take advantage of the different tranches for
- 4 different kinds of the reliability and resource planning.
- 5 So, absolutely important point. Thank you for
- 6 your leadership on that but, also, you pushing for the load
- 7 flex scenario in SB 100, the first one. So, I think
- 8 absolutely included there for our conversation. Thank you.
- 9 CHAIRMAN HOCHSCHILD: Thank you, Vice Chair. One
- 10 final call for comments. Anyone else either on the
- 11 Commission or the panel? All right. Hearing none, we'll
- 12 turn now to Item 5, Appointment of Disadvantaged
- 13 Communities Advisory Group.
- 14 Thank you to all the folks who joined us for
- 15 Items 3 and 4.
- 16 Dorothy, if you're speaking, you're on mute.
- 17 There you go. Yeah, go ahead.
- 18 MS. MURIMI: Thank you. Thank you. Chair and
- 19 Commissioners, my name is Dorothy Murimi. I am before you
- 20 today to request approval of the appointments of the Sahara
- 21 Huazano to fill a vacancy on the Disadvantaged Communities
- 22 Advisory Group, also known as DACAG.
- Next slide.
- The DACAG was established pursuant to statute by
- 25 the Energy Commission and the Public Utilities Commission

- 1 and advises our agencies in designing and improving
- 2 policies and programs to be more effective on behalf of
- 3 disadvantaged communities in the achievement of our clean
- 4 energy and pollution reduction goals.
- 5 The DACAG has also helped both agencies advance
- 6 state equity and environmental justice goals.
- 7 Next slide.
- 8 The DACAG has 11 seats total. On this slide
- 9 you'll see our current DACAG members.
- 10 To serve on the DACAG, candidates must be from or
- 11 represent a disadvantaged community in California. We also
- 12 seek out candidates with different backgrounds, expertise
- 13 and geographic locations.
- 14 The vacancy we hope to fill today has a term
- 15 ending in -- ending on March 31, 2023. Due to its short
- 16 duration, if Huazano is appointed to complete this term, it
- 17 would not count against her DACAG term limit under the
- 18 DACAG charter.
- 19 The staff from both agencies had a robust
- 20 nomination process that resulted in the selection of
- 21 candidate Sahara Huazano who has been approved and
- 22 nominated by the Commissioners from both agencies who lead
- 23 on DACAG efforts: Vice Chair Gunda, Commissioner Monahan
- 24 from the California Energy Commission and Commissioners
- 25 Houck and Rechtschaffen from the Public Utilities

- 1 Commission
- Next slide.
- 3 Candidate Sahara Huazano is based in Indio,
- 4 California and the Director of Programs for Alianza
- 5 Coachella Valley, a sustainability organization which
- 6 focuses on pollution, infrastructure, healthcare, and youth
- 7 outreach where she has worked since 2014.
- 8 Huazano is also the Community Appointed Co-Chair
- 9 for the California Natural Resource Agency's Salton Sea
- 10 Management Program Community Engagement Committee and has
- 11 previously served on other environmental boards and
- 12 advisory groups.
- 13 Huazano was born and raised in Mecca in the
- 14 Coachella Valley and will increase the geographic diversity
- 15 and bring a rural and agricultural community perspective to
- 16 the DACAG.
- Next slide.
- 18 Based on the joint approval and nomination of
- 19 Vice Chair Gunda, Commissioner Monahan from the CEC, and
- 20 Commissioners Rechtschaffen and Houck from the CPUC, I'm
- 21 requesting the Commission vote to appoint Sahara Huazano to
- 22 fill a vacancy on the DACAG.
- This concludes my presentation. I'm available
- 24 for any questions. Thank you.
- 25 CHAIRMAN HOCHSCHILD: Well, thank you so much,

- 1 Dorothy, and congratulations to Sahara on the nomination.
- Let's go to Commissioner -- sorry, to public
- 3 comment on item five before we do Commissioner discussion.
- 4 MS. MURIMI: Thank you, Chair. For individuals
- 5 that are on Zoom, go ahead and use the raised hand feature.
- 6 It looks like an open palm at the bottom of your screen.
- 7 And for individuals that are calling in, press star nine to
- 8 raise your hand and star six to unmute on your end.
- 9 We'll give that one moment. Seeing no comments,
- 10 Chair, I'll hand the mike back to you.
- 11 CHAIRMAN HOCHSCHILD: Thank you, Dorothy. Okay.
- 12 We'll go to Commissioner discussion starting with Vice
- 13 Chair Gunda.
- 14 VICE CHAIR GUNDA: Yes, thank you, Chair. I just
- 15 want to begin by thanking Dorothy for the presentation and
- 16 all the work she does behind the scenes on DACAG, and all
- 17 the staff at CEC involved in supporting DACAG, including
- 18 Noemi and Katrina and everyone. So, thank you so much on
- 19 that end.
- I just want to say how excited I am for this
- 21 nomination and look forward to supporting it. Both
- 22 Commissioner Monahan and I try not to miss any of the DACAG
- 23 meetings because of the value we get from those meetings
- 24 and really hearing the perspectives and the guidance from
- 25 DACAG members on really making equity foundational and take

- 1 it to our hearts, and every time we do. So, thank you to
- 2 not only the DACAG members but everybody who helped support
- 3 the overall DACAG process to help influence our work here
- 4 at the agency.
- I have had the opportunity to go to Mecca this
- 6 summer and really appreciate the landscape, the culture and
- 7 the uniqueness of the area, and I just am thrilled that
- 8 we're going to have a perspective from Mecca and the
- 9 broader region there. So, look forward to supporting the
- 10 nomination, and congratulations and thank you so much for
- 11 your service.
- 12 CHAIRMAN HOCHSCHILD: Thank you Vice Chair. Yes,
- 13 Commissioner Monahan, please.
- 14 COMMISSIONER MONAHAN: Yeah. I'll be brief, but
- 15 I just want to pile on a little to Vice Chair Gunda's
- 16 comments in terms of just welcoming Sahara to the DACAG.
- 17 And as the Vice Chair indicated, we really rely
- 18 on the DACAG for giving us feedback on our programs, and we
- 19 are committed to doing a better job and making sure that
- 20 our policies and our investments support a more equitable
- 21 California.
- 22 And as Vice Chair Gunda said, the fact that
- 23 Sahara comes from Coachella Valley and that she -- you
- 24 know, her mission is really to help her community, given
- 25 the intersection especially with the Salton Sea and the

- 1 potential for lithium extraction, you know, there's just a
- 2 lot of complex issues to be sorted out in that region of
- 3 the state. And just having someone with such a deep
- 4 commitment to her community I think is going to be really
- 5 beneficial for all of us.
- 6 CHAIRMAN HOCHSCHILD: Thank you. Unless there is
- 7 further Commissioner discussion -- I don't see any. I
- 8 welcome a motion on Item 5 from Vice Chair Gunda.
- 9 VICE CHAIR GUNDA: I move Item 5.
- 10 CHAIRMAN HOCHSCHILD: Commissioner Monahan, would
- 11 you be willing to second?
- 12 COMMISSIONER MONAHAN: I second.
- 13 CHAIRMAN HOCHSCHILD: All in favor say "aye."
- 14 Vice Chair Gunda.
- 15 VICE CHAIR GUNDA: Aye.
- 16 CHAIRMAN HOCHSCHILD: Commissioner Monahan.
- 17 COMMISSIONER MONAHAN: Aye.
- 18 CHAIRMAN HOCHSCHILD: Commissioner Vaccaro.
- 19 COMMISSIONER VACCARO: Aye.
- 20 CHAIRMAN HOCHSCHILD: Commissioner McAllister.
- 21 COMMISSIONER McALLISTER: Aye.
- 22 CHAIRMAN HOCHSCHILD: And I vote age as well.
- 23 Item 5 passes unanimously. Congratulations, Sahara, from
- 24 all of us, and we look forward to your contributions on the
- 25 DACAG.

- 1 We'll turn now to Item 6, Amendments to
- 2 Commercial and Industrial Fans and Blowers Standard.
- 3 MR. GALDAMEZ: Hello Chair, Vice Chair and
- 4 Commissioners. I'm Alejandro Galdamez. I'm a chemical
- 5 engineer for the Efficiency Division, Appliances Branch.
- 6 With me today are Matt Chalmers and Jerry Bublea
- 7 (phonetic) from the Chief Counsel's Office.
- 8 I will be presenting for your consideration the
- 9 staff's proposed regulations for commercial and industrial
- 10 fans and blowers and the CEQA determination.
- Next slide, please.
- The proposed commercial and industrial fans and
- 13 blowers' regulation benefits consumers by ensuring that
- 14 buyers and installers have the information they need to
- 15 select fans that will operate at optimal efficiency.
- 16 This lowers electrical consumption, saves money
- 17 on electricity bills and reduces greenhouse gas emissions
- 18 associated with the generation of electricity.
- 19 The proposed regulation has the potential to
- 20 avoid the need to construct new electricity generating
- 21 stations. To put it in perspective, the proposed
- 22 regulation has a total energy savings of approximately 1.7
- 23 terawatt hours per year for the state of California due to
- 24 the long life of this commercial equipment.
- Next slide, please.

1	The	proposed	regulation	will	cover	fans	and

- 2 blowers used in commercial and industrial settings that are
- 3 sized between one and 150 horsepower.
- 4 The fans that will be regulated include axial and
- 5 centrifugal fans, in form factors that include housed fans,
- 6 unhoused fans, and panel fans, to mention a few,
- 7 essentially the most common types of fans that are used in
- 8 these settings.
- 9 The proposed regulation requires the use of
- 10 ANSI/AMCA 214-21 to determine the fan energy index, or FEI.
- 11 Manufacturer must then certify and mark the maximum
- 12 airflow, pressure and fan speed that define the conditions
- 13 where the fan performs at an FEI of one or greater.
- 14 This information gives buyers and installers the
- 15 information they need to select a fan whose sweet spot
- 16 covers the airflow and pressure conditions needed for their
- 17 specific commercial and industrial activity.
- Next slide, please.
- In addition to the requirements set by the
- 20 Administrative Procedural Act, the proposed regulation was
- 21 determined to be exempt from the California Environmental
- 22 Quality Act because the regulation will result in
- 23 environmental benefits through considerable energy savings
- 24 which will reduce the corresponding pollution, including
- 25 greenhouse gases associated with the generation of

- 1 electricity.
- 2 And the proposed regulation for adoption will not
- 3 have significant effects on the environment since the
- 4 proposed regulation does not provide for any physical
- 5 changes to products, increase waste, or dictate the use of
- 6 any specific material.
- 7 Next slide, please.
- 8 We would like to acknowledge the productive
- 9 collaboration we received from the Air Movement and Control
- 10 Association International, the Appliances Standard
- 11 Awareness Project, the Greenheck Fan Corporation, the
- 12 American Council for Energy Efficiency Economy, the Air
- 13 Conditioning, Heating and Refrigeration Institute, the
- 14 Northwest Energy Efficiency Alliance, and the California
- 15 Investors Owned Utilities.
- We would also like to acknowledge CEC support
- 17 staff who always goes above and beyond in supporting the
- 18 stakeholders, upholding public trust and generating the
- 19 different documents used for the development of this
- 20 proposal.
- 21 To every single person who participated in this
- 22 development of these regulations and the test procedure,
- 23 thank you so much. It has been an instructional value
- 24 creating experience.
- 25 With that said, we request your vote for the

- 1 adoption of the proposed regulation and the CEQA
- 2 determination for commercial fans and blowers.
- 3 Thank you, and I'm here for any questions you may
- 4 have.
- 5 CHAIRMAN HOCHSCHILD: Thank you so much,
- 6 Alejandro. Let's go to public comment on Item 6.
- 7 MS. MURIMI: Thank you, Chair. For individuals
- 8 that are on a Zoom, go ahead and use the raised hand
- 9 feature. For individuals that are calling in, go ahead and
- 10 press star nine to raise your hand and star six to unmute
- 11 on your end. Once we open your line, go ahead and state,
- 12 spell your name and give your affiliation, if any. You'll
- 13 have three minutes to give your comments.
- 14 We'll start with Michael Ivanovich.
- 15 MR. IVANOVICH: Yes, good morning. Hello. My
- 16 name is Michael Ivanovich, spelled I-V, as in Victor, -A-N,
- 17 as in Nancy, -O-V, as in Victor, -I-C, as in Charlie, -H.
- 18 Michael Ivanovich, and I'm the senior director of global
- 19 affairs for the Air Movement and Control Association
- 20 International, also known as AMCA International.
- 21 And for this meeting I'm also speaking on behalf
- 22 of Laura Petrillo-Groh. That's Laura, L-A-U-R-A, Petrillo,
- 23 P-E-T-R-I-L-L-O, dash Groh, G-R-O-H, who is the senior
- 24 regulatory advisor for Air Conditioning, Heating and
- 25 Refrigeration Institute, also known as AHRI. She could not

- 1 be here today because of AHRI's annual meeting is taking
- 2 place at this time.
- With all that said, AMCA International and AHRI
- 4 wish to thank the California Energy Commission, and
- 5 notably, Alejandro Galdamez, PE of the CEC Efficiency
- 6 Division of the Appliances Office for completing what was a
- 7 long and arduous journey to develop the Title 20
- 8 regulations for commercial and industrial fans and blowers.
- 9 We believe this regulation is fair, achievable
- 10 and enforceable, and it will result in substantial energy
- 11 and carbon savings as Alejandro has just outlined.
- 12 And now that the Title 20 regulation is complete,
- 13 we thank CEC, California IOUs and other stakeholders on the
- 14 collaborative nature of the rulemaking, and best wishes to
- 15 you all. Thank you very much.
- MS. MURIMI: Thank you. Next, we have Mary
- 17 Anderson. Please state, spell your name, give your
- 18 affiliation, if any. You may begin your comment.
- MS. ANDERSON: Hi. This is Mary Anderson, M-A-R-
- 20 Y, Anderson, A-N-D-E-R-S-O-N. Good morning. This Mary
- 21 Anderson from Pacific Gas and Electric representing the
- 22 California investor-owned utilities.
- In response to Agenda Item 6, Amendments to
- 24 Commercial and Industrial Fans and Blower Standards, we
- 25 would like to thank the CEC and Alejandro Galdamez of the

- 1 Appliance Standards Office for identifying the opportunity
- 2 to include the requirements in Title 20 for testing and
- 3 marking of the commercial and industrial fans and blowers.
- 4 We were a part of the broad coalition of stakeholders that
- 5 collaboratively engaged with the CEC on this rulemaking,
- 6 and we feel -- and we support the final proposed regulatory
- 7 language. Thank you.
- 8 MS. MURIMI: Thank you. And with that, I see no
- 9 more raised hands there, I hand the mike back to you.
- 10 CHAIRMAN HOCHSCHILD: Thank you. Let's go to
- 11 Commissioner discussion now, beginning with Commissioner
- 12 McAllister.
- 13 COMMISSIONER McALLISTER: Yeah. So, thanks a
- 14 lot, Alex, for the presentation. Mr. Ivanovich described
- 15 the process as long and arduous. You know I might use some
- 16 slightly more positive adjectives, but I think it is a
- 17 complex topic, and I think, you know, just gauging from
- 18 Alex's presentation, you know, you put up the graph of FEI
- 19 and kind of that envelope of design space that really is
- 20 all about size, proper sizing of motor fans and blowers.
- 21 And, so, moving air, you know, it's a function of -- the
- 22 power is a function, the speed and the air flow and, so,
- 23 you know, really finding the sweet spot for any given motor
- 24 is not kind of for laypeople to do. You really need some
- 25 knowledge and, hopefully, we're supporting well with this

- 1 regulation, the folks who are purchasing, you know,
- 2 procuring and specifying replacement fans and blowers.
- 3 And, so, there was a lot of back and forth to
- 4 kind of figure out how to do that best. And I really
- 5 commend Alex, and Peter, and the team for managing that
- 6 process. You know, I always say our process is our
- 7 lifeblood and our credibility depends on it, and this is
- 8 absolutely an example of that where, you know, creating a
- 9 space for all the stakeholders to come together and, you
- 10 know, knowledgeable parties and parties that are going to
- 11 be impacted by a potential regulation, and really listening
- 12 and ending up with a product that really lands in the right
- 13 place.
- So, thanks to Mary Anderson and PG&E and the
- 15 whole CAIS team. I think, you know, your participation is
- 16 critical in all of these regs.
- Mr. Ivanovich, want to appreciate you and AMCA
- 18 International, as well as AHRI, Laura Petrillo-Groh, you
- 19 know, had also participated very extensively.
- 20 And, you know, beyond that the ASAP, the
- 21 Appliance Standards Awareness Project, MAIS (phonetic) and
- 22 Triple E. One or two I'm probably missing there. But, you
- 23 know, really it was a great collaboration with a lot if
- 24 iteration that put us in a good place. And, so, I think
- 25 you heard that in some of the comments just now, and

- 1 really, Alex, just thanks for your persistence and your
- 2 management of the process and your support of all of the
- 3 stakeholders so that they can participate in the process
- 4 and help shape and guide it so that it lands in a good
- 5 place where it's enforceable, as Mr. Ivanovich, and it's
- 6 also going to really harvest a lot of energy and carbon
- 7 savings.
- 8 So, I'm super excited about this. This is bread
- 9 and butter for the Energy Commission, you know. It's
- 10 mechanical equipment out there in the world, millions and
- 11 millions of replacement fans and blowers are going to be
- 12 influenced, you know, impacted by this, and they're going
- 13 to be better, so really happy with this result.
- 14 CHAIRMAN HOCHSCHILD: Thank you, Commissioner.
- 15 COMMISSIONER McALLISTER: Pass it back to you,
- 16 Chair.
- 17 CHAIRMAN HOCHSCHILD: Can I ask a question? This
- 18 is for Alex, but it may be for you, as well, Commissioner,
- 19 and I apologize if I missed this during your presentation,
- 20 but all in, what is the annual projected energy savings at
- 21 scale, and then how would that rank against other recent
- 22 efficiency standards that we've adopted over the past
- 23 years?
- MR. GALDAMEZ: So, the annual will be in the
- 25 realm of 1,700 gigawatt hours. That's at full stock. It

- 1 will vary between 27 to 30 years just because of the life
- 2 expectancy of the fans. We ran some calculations in
- 3 regards money-wise with 2020 rates. It's about 300 million
- 4 per year, 300 -- 300 million per year in savings of
- 5 electricity bills with a lifetime net benefit at a three
- 6 percent discount of 5.3 billion. So, it's up there. Its
- 7 comparable to the -- a little lower than the I think it's
- 8 the television -- the television regulation that we passed
- 9 a while back.
- 10 CHAIRMAN HOCHSCHILD: Again, 300 million a year
- 11 is a meaningful number. That's terrific. And what is the
- 12 -- I'm ignorant about these blower standards. So, what is
- 13 the expected lifecycle of a typical blower?
- MR. GALDAMEZ: So, it depends on the type of
- 15 blower, but it's between 27 and 30 years.
- 16 CHAIRMAN HOCHSCHILD: Twenty-seven to thirty
- 17 years.
- MR. GALDAMEZ: Yes.
- 19 CHAIRMAN HOCHSCHILD: But I would say it makes so
- 20 much difference for an appliance that's going to last three
- 21 decades to get it right the first time when you installed
- 22 it.
- MR. GALDAMEZ: Yes.
- 24 CHAIRMAN HOCHSCHILD: Wow. Well, congratulations
- 25 on all this.

- 1 MR. GALDAMEZ: Thank you.
- 2 COMMISSIONER McALLISTER: The other aspect,
- 3 there's a lot of misspecification of motors out there, and
- 4 there's oversizing of, you know, drive motors, fans and
- 5 blowers and all kinds of motors. And so, part of the
- 6 benefit I believe of this regulation is going to be to
- 7 provide better guidance, visual guidance, about how to
- 8 better size motors for optimum efficiency. But a lot of
- 9 oversizing, and that really doesn't help. It uses more
- 10 energy for the same amount of air, and it actually wears
- 11 out the motor sooner. So, part of our support of the
- 12 marketplace is just enabling that proper sizing of motors
- 13 in this req.
- MR. HOCHSCHILD: This is very much in the
- 15 category of not sexy, but really important. Is there
- 16 anything less sexy than industrial fans?
- 17 COMMISSIONER McALLISTER: It's right up my alley,
- 18 I'll tell you. This is exactly what I'm here to do.
- 19 CHAIRMAN HOCHSCHILD: Really needful.
- 20 Congratulations to the whole team.
- 21 COMMISSIONER McALLISTER: We have the -- you
- 22 know, this is really under the hood of the Energy
- 23 Commission, and our staff does such an amazing job of
- 24 keeping that motor humming along, and it's just fabulous.
- MR. GALDAMEZ: Thank you. It's really a team

- 1 effort. I couldn't have done it without everybody that
- 2 supported me in achieving this, so, I've got to give them
- 3 props.
- 4 CHAIRMAN HOCHSCHILD: Great. Congratulations.
- 5 Let's turn to Vice Chair Gunda.
- 6 VICE CHAIR GUNDA: Thank you, Chair. I couldn't
- 7 resist just saying as you guys were questions, one of the
- 8 very first classes I think in 2006, or something, I took an
- 9 energy efficiency class from Dr. Meier, Alan Meier, from
- 10 LBNL was about motors and how a small efficiency
- 11 improvement in motors across, you know, the entire globe
- 12 could significantly reduce our energy consumption on the
- 13 globe. So, it's like the first image we shared I still
- 14 remember.
- So, yeah, just wanted to say, you know, energy
- 16 efficiency, the lifeblood of the Commission, but also just
- 17 the silent kind of measure, that kind of in the permits,
- 18 everything we do here, so, Commissioner McAllister, just
- 19 wanted to give you kudos for always recognizing the process
- 20 side, so thank you, and, Alejandro, I just love the spirit
- 21 in which you presented both, the competence but the
- 22 collaboration, and just the spirit of generosity. Just
- 23 thank everybody. That's great. Thank you so much for the
- 24 work.
- MR. GADAMEZ: Thank you.

1		CHAI	IRMAN HOCH	SCHI	ILD:	Great.	Well, u	nles	S
2	there's	other	comments,	my	only	closing	thought	is,	you

- $3\,$  know, this is also a great reliability measure. I mean I
- 4 just want to highlight how important efficiency is because
- 5 it makes it easier to support the grid when we're using
- 6 less power, and I just think, you know, we've got to
- 7 recognize this is reliability is really touching every
- 8 single Commissioner's area of focus, and our challenge gets
- 9 easier with standards like this. So, kudos to you, Alex,
- 10 and the whole team. Commissioner McAllister, thank you
- 11 again for your leadership, Mike Sokal, and everyone.
- 12 And with that, I would welcome a motion on Item
- 13 6. Commissioner McAllister.
- 14 COMMISSIONER McALLISTER: I will move Item 6.
- 15 CHAIRMAN HOCHSCHILD: Okay. Vice Chair Gunda,
- 16 would you be willing to second?
- 17 VICE CHAIR GUNDA: Second.
- 18 CHAIRMAN HOCHSCHILD: All in favor say "aye."
- 19 Commissioner McAllister.
- 20 COMMISSIONER McALLISTER: Aye.
- 21 CHAIRMAN HOCHSCHILD: Vice Chair Gunda.
- VICE CHAIR GUNDA: Aye.
- 23 CHAIRMAN HOCHSCHILD: Commissioner Vaccaro.
- 24 COMMISSIONER VACCARO: Aye.
- 25 CHAIRMAN HOCHSCHILD: Commissioner Monahan.

- 1 COMMISSIONER MONAHAN: Aye.
- 2 CHAIRMAN HOCHSCHILD: And I vote age as well.
- 3 Item 6 passes unanimously. Thanks to all.
- We turn now Item 7 we're going to hold until
- 5 the December meeting, but we'll turn now to Item 8, Clean
- 6 Transportation Program Rural EV charging.
- 7 COMMISSIONER McALLISTER: Chair, could I just I
- 8 need to leave the camera just for a second. I will be
- 9 listening, but I need to just attend to something really
- 10 quick and then I'll be right back. So, I am listening.
- 11 CHAIRMAN HOCHSCHILD: That's fine. Yeah, thank
- 12 you.
- 13 COMMISSIONER McALLISTER: Thank you.
- MR. WENSIL: Hello Chair, Vice Chair,
- 15 Commissioners. My name is David Wensil with the Fuels and
- 16 Transportation Division.
- 17 Today staff is seeking approval for a project
- 18 proposed for funding under the Clean Transportation
- 19 Program's Rural Electric Vehicle Charging Solicitation.
- Next slide, please.
- 21 Proposed projects from the REV solicitation will
- 22 offer Californians replicable and scalable business and
- 23 technology models that can deploy electric vehicle charging
- 24 stations to serve rural EV drivers.
- 25 This solicitation will support the travel of

- 1 rural EV drivers with access to EV charging stations in low
- 2 income and disadvantaged communities.
- Funding will go towards supportive services such
- 4 as operations and maintenance to help ensure chargers are
- 5 reliable and readily accessible.
- 6 This solicitation is also tailored to engage
- 7 local rural communities and businesses to increase charger
- 8 awareness and promote EV adoption.
- 9 This solicitation requires charging
- 10 infrastructure to be deployed and installed in rural areas
- 11 with a minimum of 50 percent of total project costs applied
- 12 in low income and disadvantaged communities. Charging
- 13 stations must be available and accessible at least 18 hours
- 14 per day and operational at least 97 percent of the standard
- 15 operating hours of the charging facility.
- With support from the REV solicitation, these
- 17 projects will provide necessary local baseline data and
- 18 information which will allow rural communities to more
- 19 effectively budget, plan and implement future EV charging
- 20 stations.
- 21 The project that I will be presenting today
- 22 accounts for roughly \$656,000 out of the total 14.2 million
- 23 proposed for awards under this solicitation. The rest of
- 24 the agreements are expected for the December and January
- 25 Business Meetings.

1	Next	slide,	please.

- 2 The transition to EVs requires charging
- 3 infrastructure to support all kinds of trips and drivers,
- 4 including those in rural areas.
- 5 Fast charging can act as an opportunity for
- 6 economic growth and development in rural areas since much
- 7 of their economy is based on tourism. Given this
- 8 information, however, many rural communities have sparse
- 9 public fast charging coverage.
- 10 According to the latest SB 1000 report, rural
- 11 communities have less public fast charging station coverage
- 12 than urban communities. The map on the right shows rural
- 13 communities with drive times of five minutes or less in
- 14 blue, six to nine minutes in gray, or 10 or more minutes in
- 15 orange.
- 16 The report found that 60 percent of all rural
- 17 populations in California have drive times of 10 minutes or
- 18 more, with low-income rural communities having the least
- 19 fast charger coverage.
- While the project being discussed today in Ukiah,
- 21 California will not include fast chargers, other projects
- 22 that have been awarded out of this solicitation will be.
- 23 In the end there is much work to be done to
- 24 promote widespread EV adoption in rural communities.
- 25 Public charging, including fast charging, can improve range

- 1 confidence for rural drivers with longer daily travel and
- 2 support road trips and tourism in rural communities.
- 3 Investing in electrical infrastructure in rural
- 4 communities will play an essential role in achieving the
- 5 state's climate and clean transportation goals.
- 6 Next slide, please.
- 7 The proposed project with the county of Mendocino
- 8 will demonstrate replicable and scalable models for
- 9 accelerating EV charging infrastructure by including
- 10 multiple side locations per project and ensuring chargers
- 11 are placed in convenient and easily accessible locations.
- 12 The county is requesting around 656,00 and will
- 13 be providing match funding near 170,000 to install 12 dual-
- 14 port level two chargers at two county owned facilities in
- 15 Ukiah, California. The map on the slide represents
- 16 priority populations from CalEnviroScreen 4.0, the light
- 17 blue area where both proposed sites are located or adjacent
- 18 to represent low-income communities.
- 19 The first site is at the County Administration
- 20 Center, which serves as the main hub for county business
- 21 and includes various local government services, as well as
- 22 access to recreational sport fields. The county
- 23 anticipates heavy EV usage from county workers and visitors
- 24 and will house the dual-port level two chargers.
- The next site is the Yokayo Social Services

- 1 Complex where the county will install the remaining six
- 2 dual-port level two charging stations. This site provides
- 3 children and family services, employment and family
- 4 assistance, and adult aging services, and is within a
- 5 quarter mile of various shopping destinations. Both sites
- 6 represent areas of high foot traffic, publicly accessible
- 7 parking spaces and 24/7 availability.
- 8 The county plans on purchasing ChargePoint's
- 9 Assure Package which offers support services to cover
- 10 defective parts and onsite labor for part replacement, a 98
- 11 percent uptime guarantee, and one business day response
- 12 time for both parts and onsite labor.
- 13 Lastly, the county will publicize the project and
- 14 conduct outreach to the community to inform them of the
- 15 project and encourage the use and adoption of electric
- 16 vehicles. This will be accomplished through press releases
- 17 that announce major project milestones, signage at the
- 18 project site to inform the public of the new infrastructure
- 19 and its funding source and the intent of the project as
- 20 well as updates at public meetings such as County Board of
- 21 Supervisor meetings.
- Next slide, please.
- 23 Staff's recommendation is to approve the proposed
- 24 agreement with the County of Mendocino to install 12 dual-
- 25 level two chargers at two locations in the city of Ukiah

- 1 and adopt staff's determination that this action is exempt
- 2 from CEQA.
- 3 Thank you for your consideration. This concludes
- 4 my presentation, and I would be happy to answer any
- 5 questions, if there are.
- 6 CHAIRMAN HOCHSCHILD: Thank you so much. Just be
- 7 clear, when you say 12 dual port, that's actually enough to
- 8 charge 24 vehicles? Is that right?
- 9 MR. WENSIL: Yes.
- 10 CHAIRMAN HOCHSCHILD: Okay. Thank you. That was
- 11 a great overview.
- 12 Let's go to public comment on Item 8.
- MS. MURIMI: Thank you, Chair. So, for
- 14 individuals that are on Zoom, go ahead and use the raised
- 15 hand feature, and for individuals that are calling in, go
- 16 ahead and press star nine. Once we open your line, please
- 17 state, spell your name, give your affiliation, if any.
- 18 You'll have three minutes to give your comments. One
- 19 moment. Once again, used the raised hand feature. Looks
- 20 like an open palm at the bottom of your screen and star
- 21 nine if you are calling in.
- 22 Seeing no raised hands, Chair, back to you.
- 23 CHAIRMAN HOCHSCHILD: Thank you. Let's go to
- 24 Commissioner discussion starting with Commissioner Monahan.
- 25 COMMISSIONER MONAHAN: Well, I was a big

- 1 proponent of bringing this to the business meeting instead
- 2 of having it just be a consent item, having it be a
- 3 discussion item because this is the first of the REV
- 4 grants, and also let's just reflect on a moment of how cool
- 5 that acronym is for electric vehicles, REV.
- 6 And the fact that this portfolio grant is better
- 7 upcoming is really to focus on the findings of our SB 1000
- 8 report that there is inequitable distribution of chargers
- 9 across the state. As David showed in that nice map of
- 10 California that rural areas have the least access in terms
- 11 of like they have the longest drive times to EV chargers,
- 12 and rectifying that is particularly important.
- 13 I've got to say I was actually just in Mendocino
- 14 County with my husband celebrating our anniversary last
- 15 weekend. There is a dearth of chargers. I can verify
- 16 that. And, so, we need to I think as a state and as an
- 17 agency really do a better job making sure that both those
- 18 who live in rural areas have access and people traveling
- 19 through rural areas also have access.
- 20 So, just appreciate the work of David and the
- 21 team to focus in on the SP 1000 reports and address them
- 22 through our grantmaking. And that's all, Chair.
- 23 CHAIRMAN HOCHSCHILD: Great. Okay. Well, let me
- 24 see if there's any other Commissioners wishing to make a
- 25 comment. Seeing none, I will ask just a couple of other

- 1 questions.
- 2 Typical permit time now in California for level
- 3 two. I know at one point it was as long as 62 days. Do we
- 4 have any updates or progress on that or insight on that to
- 5 get these constructed?
- 6 MR. WENSIL: Specifically on the permitting time
- 7 for level two chargers, I don't know the exact dates. I
- 8 know it usually takes about a couple of months.
- 9 CHAIRMAN HOCHSCHILD: Yeah, okay. Okay, that's
- 10 fine.
- 11 Well, congrats on a great project. Happy to
- 12 support and appreciate all the work, and I would welcome a
- 13 motion from Commissioner Monahan on Item 8.
- 14 COMMISSIONER MONAHAN: I move to approve Item 8.
- 15 CHAIRMAN HOCHSCHILD: Commissioner McAllister,
- 16 would you be willing to second?
- 17 COMMISSIONER McALLISTER: Second.
- 18 CHAIRMAN HOCHSCHILD: All in favor say "aye."
- 19 Commissioner Monahan.
- 20 COMMISSIONER MONAHAN: Aye.
- 21 CHAIRMAN HOCHSCHILD: Commissioner McAllister.
- 22 COMMISSIONER McALLISTER: Aye.
- 23 CHAIRMAN HOCHSCHILD: Commissioner Vaccaro.
- 24 COMMISSIONER VACCARO: Aye.
- 25 CHAIRMAN HOCHSCHILD: Vice Chair Gunda.

- 1 VICE CHAIR GUNDA: Aye.
- 2 CHAIRMAN HOCHSCHILD: And I vote age as well.
- 3 Item 8 passes unanimously. Thanks to all.
- We'll turn now to Item 9, Reliable, Equitable and
- 5 Accessible Charging for Multifamily Housing.
- 6 MS. LOPEZ: Good morning, Chair, Vice Chair and
- 7 Commissioners. My name is Thanh Lopez, staff in the Fuels
- 8 and Transportation Division.
- 9 Today staff is seeking approval for four projects
- 10 proposed for funding under the Clean Transportation
- 11 Program's Reliable, Equitable and Accessible Charging for
- 12 Multi-family Housing, also referred to as REACH, under GFO-
- 13 21-603.
- Next slide, please.
- 15 Proposed projects from the REACH solicitation
- 16 will increase access to charging for residents of
- 17 multifamily homes.
- 18 At-home charging for electric vehicles is often
- 19 the cheapest and most convenient form of charging.
- 20 However, installing charging for multifamily housing can be
- 21 challenging, especially when the residents are low income.
- 22 Multifamily properties also present unique
- 23 challenges in deploying electric vehicle charging,
- 24 including the age and size of the properties. Making
- 25 retrofits to older buildings to add electric vehicle

- 1 charging can also be cost prohibitive.
- 2 Multiple studies have also shown that homeowners
- 3 are far more likely than renters to own an electric vehicle
- 4 due, in part, to a lack of accessible charging
- 5 infrastructure at home.
- 6 The REACH solicitation is designed to address
- 7 these issues and add measurable benefits for these
- 8 communities statewide.
- 9 The projects presented today will provide two
- 10 different charging solutions, offsite fast charging and
- 11 onsite level two charging to test innovative models for
- 12 installing charging to help meet statewide electric vehicle
- 13 adoption goals.
- 14 The proposed projects will deploy over 500 level
- 15 two onsite chargers and 33 fast chargers near multifamily
- 16 housing properties with more than half of these chargers to
- 17 be installed within disadvantaged and/or low-income
- 18 communities
- 19 The projects presented today accounts for roughly
- 20 7.8 million dollars out of total 26.6 million dollars
- 21 proposed for awards under this solicitation. Ten million
- 22 dollars in projects have been approved at previous Business
- 23 Meetings, and the remaining 8-1/2 million dollars are
- 24 expected for the December and January business meetings.
- Next slide, please.

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- 2 Services. Staff is requesting roughly 2.7 million dollars
- 3 for this project which will install at least 24 direct
- 4 current fast chargers at five locations in southern
- 5 California.
- 6 The chargers will be a mix of high-powered 100
- 7 kilowatt and 350 kilowatt charges centrally located at
- 8 retail shopping locations accessible to over 186,000
- 9 multifamily units within a five-mile radius.
- 10 All five locations are either in or directly
- 11 adjacent to disadvantaged or low-income communities.
- 12 EVgo plans to replicate this model statewide and
- 13 nationally, planning further network expansion specifically
- 14 in high density areas with a large portion of multifamily
- 15 homes.
- 16 This off-site fast charging project, paired with
- 17 other projects installing onsite level two at multifamily
- 18 homes is essential to supporting electrification for
- 19 multifamily housing residents.
- Next slide, please.
- 21 The second proposed agreement is also with EVgo
- 22 Services. Staff is requesting roughly \$860,000 for this
- 23 project, which will install at least nine direct current
- 24 fast chargers at two locations in northern California.
- 25 Similar to the previous project, the high-powered

- 1 chargers will be centrally located at retail locations
- 2 offering plenty of amenities and available to over 36,000
- 3 multifamily housing units within a five-mile radius.
- 4 The retail locations are both located in low-
- 5 income communities.
- 6 Next slide, please.
- 7 The third proposed agreement is with ChargePoint.
- 8 Staff is requesting roughly 2.1 million dollars for this
- 9 project, which will install at least 254 on-site level two
- 10 chargers at multifamily properties in southern California.
- 11 The chargers will have the capability to serve at
- 12 least 378 units.
- 13 ChargePoint is committed to installing at least
- 14 75 percent of all charging ports at multifamily housing
- 15 properties located in a disadvantaged and/or low-income
- 16 community.
- 17 The project aims to provide multifamily housing
- 18 residents with access to onsite charging and increase
- 19 electric vehicle adoption.
- The project will utilize installation techniques
- 21 such as surface mounted conduit and software enabled power
- 22 sharing to demonstrate a replicable and scalable approach
- 23 to cost effect electric vehicle charger installation at
- 24 existing multifamily properties.
- Next slide, please.

- 1 The fourth proposed agreement is also with
- 2 ChargePoint. Staff is requesting roughly 2.1 million
- 3 dollars for this project, which will install at least 254
- 4 onsite level two chargers at multifamily properties in
- 5 northern California.
- 6 Similar to the previous project, the chargers
- 7 will have the capability to serve at least 378 units, and
- 8 at least 75 percent of all charging ports will be installed
- 9 at multifamily housing properties located in a
- 10 disadvantaged and/or low-income community.
- Next slide.
- 12 Staff recommendation is to approve these four
- 13 agreements and adopt staff's determination that these
- 14 actions are exempt from CEQA.
- 15 Thank you very much for your consideration. This
- 16 concludes my presentation. I'm happy to answer any
- 17 questions you may have.
- 18 We also have representatives from EVgo and
- 19 ChargePoint that may make some supporting comments. Thank
- 20 you.
- 21 MR. HOCHSCHILD: Great. Thank you so much.
- 22 Let's go to public comment on Item 9.
- MS. MURIMI: Thank you, Chair. Once again, for
- 24 individuals who are on Zoom, go ahead and use the raised
- 25 hand feature. For individuals that are calling in, go

- 1 ahead and press star nine to raise your hand and star six
- 2 to unmute. Once we open your line, please state, spell
- 3 your name, give your affiliation, if any. You'll have
- 4 three minutes to give your comments.
- 5 We'll start with Courtney Cucchissi, and
- 6 apologies if I have misstated your name. Please state,
- 7 spell your name. You may begin your comments.
- 8 MS. CUCCHISSI: Hello, Chair, Co-Chair and
- 9 Commissioners, and thank you, Thanh, for your descriptive
- 10 presentation.
- 11 My name is Courtney Cucchissi. My first name is
- 12 spelled with a C. My last name is spelled C-U-C-C-H-I-S-S-
- 13 I.
- I am on the Account Management team at EVgo, and
- 15 I'm here to comment on behalf of EVgo Services.
- 16 EVgo would like to offer sincere thanks to the
- 17 CEC for providing the opportunity to accelerate charging
- 18 accessibility to those living in multifamily housing units
- 19 in both northern and southern California.
- 20 EVgo is very excited for further collaboration
- 21 with the CEC as more strides are taken to advance the
- 22 shared goal of providing equitable access to electric
- 23 vehicle charging statewide.
- 24 Thank you for your time and consideration today.
- MS. MURIMI: Thank you. Next, we have Charlotte

- 1 Goodrich. Please state, spell your name, give your
- 2 affiliation, if any. You may begin your comments.
- 3 MS. GOODRICH: Hi, there. I'm Charlotte
- 4 Goodrich, the grant manager for these grants at
- 5 ChargePoint. My name is spelled C-H-A-R-L-O-T-T-E. My
- 6 last name is G-O-O-D-R-I-C-H.
- 7 Thank you for having me, Chair, Vice Chair and
- 8 Commissioners, and thank you, Thanh, for the presentation.
- 9 I just wanted to say that ChargePoint is very
- 10 grateful to be the recipient of the REACH grants, one for
- 11 North Cal and one for So Cal. We are really looking
- 12 forward to working with CEC to install charging stations
- 13 and provide outreach and education on EV charging for
- 14 multifamily residents, particularly those in disadvantaged
- 15 and low-income communities. Thank you.
- MS. MURIMI: Thank you. One last call for public
- 17 comment. Again, use the raised hand feature. It looks
- 18 like an open palm and star nine if you are calling.
- 19 Seeing no comments, Chair, I hand the mike back
- 20 to you.
- 21 CHAIRMAN HOCHSCHILD: Okay. Let's go to
- 22 Commissioner discussion. Back to Commissioner Monahan.
- 23 COMMISSIONER MONAHAN: Well, as I said, REV was
- 24 one of the best acronyms. I would say REACH maybe is in
- 25 competition for it.

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- 2 when we're talking about equity. And I want to be
- 3 transparent that we don't have all the answers when it
- 4 comes to multifamily dwellings. We know it's going to take
- 5 a mix of level two, maybe even level one, onsite or really
- 6 nearby, convenient refueling for overnight where there's
- 7 long dwell times. We know DC fast charging is going to be
- 8 an ingredient as well, but generally you don't want to use
- 9 DC fast charging as your primary strategy because of the
- 10 grid implications and also because it can be very
- 11 expensive.
- 12 So, you know, we're really trying to sort through
- 13 with this portfolio of grants, seed investments that we're
- 14 going to learn from and be able to tailor future
- 15 solicitations to incorporate the learning that we have from
- 16 these projects. And I like the fact that they're a mix of
- 17 northern California, southern California. I also think,
- 18 you know, ChargePoint isn't going to be looking for
- 19 locations, onsite locations. Those are -- those tend to be
- 20 more expensive, but the grant is actually pretty cost
- 21 effective I would say on a per charger basis. And, you
- 22 know, so there's going to be work that's going to have to
- 23 follow from this to ensure that they can find these good
- 24 locations and provide onsite refueling access.
- 25 My dog is very excited about these REACH grants

- 1 as well.
- 2 So, just thank Thanh and the team for tackling
- 3 this one. Again, it's a finding -- you know, it's a
- 4 general equity issue that we're really trying to tackle
- 5 with having so many families living in multifamily
- 6 dwellings.
- 7 CHAIRMAN HOCHSCHILD: All right. Well, I think
- 8 we heard comments from Commissioner Monahan's dog as well
- 9 on this. We'll count that as a sixth vote here.
- 10 Unless there are other Commissioners wishing to
- 11 chime in on this, I would welcome a motion from
- 12 Commissioner Monahan on this item.
- 13 COMMISSIONER MONAHAN: I move to approve Item --
- 14 CHAIRMAN HOCHSCHILD: Nine.
- 15 COMMISSIONER MONAHAN: -- nine. Thank you. This
- 16 item.
- 17 CHAIRMAN HOCHSCHILD: Thank you. Commissioner
- 18 McAllister, would you be willing to second Item 9?
- 19 COMMISSIONER McALLISTER: I second Item 9.
- 20 CHAIRMAN HOCHSCHILD: All in favor say "aye."
- 21 Commissioner Monahan.
- 22 COMMISSIONER MONAHAN: Aye.
- 23 CHAIRMAN HOCHSCHILD: Commissioner McAllister.
- 24 COMMISSIONER MCALLISTER: Aye.
- 25 CHAIRMAN HOCHSCHILD: Commissioner Vaccaro.

- 1 COMMISSIONER VACCARO: Aye.
- 2 CHAIRMAN HOCHSCHILD: Vice Chair Gunda. Oh, he
- 3 may have left, so --
- 4 VICE CHAIR GUNDA: Aye.
- 5 CHAIRMAN HOCHSCHILD: Oh, you're back, okay,
- $6\,$  great. And I vote aye as well. So, those items pass --
- 7 that item passes unanimously. We'll turn to Item 10,
- 8 Minutes of the October 12<sup>th</sup> and October 24<sup>th</sup> Business
- 9 Meetings.
- 10 Dorothy, we had all Commissioners at both those
- 11 meetings, correct?
- MS. MURIMI: That is correct, Chair.
- 13 CHAIRMAN HOCHSCHILD: I believe we did. Okay.
- 14 So, we don't need to -- can we -- is there any public
- 15 comment on Item 10?
- MS. MURIMI: Thank you, Chair. Just reiterating
- 17 instructions once again. So, for individuals that are on
- 18 Zoom, go ahead and use the raised hand feature. And for
- 19 individuals that are calling in, press star nine to raise
- 20 your hand and star six to unmute on your end. Once
- 21 unmuted, state, spell your name, give your affiliation, if
- 22 any. There being no raised hands, I'll hand the mike back
- 23 to you.
- 24 CHAIRMAN HOCHSCHILD: Okay. Unless there's
- 25 public -- any Commissioner discussion on this, Vice Chair

- 1 Gunda, would you be willing to move Item 10?
- 2 VICE CHAIR GUNDA: Move Item 10.
- 3 CHAIRMAN HOCHSCHILD: Commissioner Vaccaro, would
- 4 you be willing to second Item 10?
- 5 COMMISSIONER VACCARO: Yes, second.
- 6 CHAIRMAN HOCHSCHILD: All in favor say "aye."
- 7 Vice Chair Gunda.
- 8 VICE CHAIR GUNDA: Aye.
- 9 CHAIRMAN HOCHSCHILD: Commissioner Vaccaro.
- 10 COMMISSIONER VACCARO: Aye.
- 11 CHAIRMAN HOCHSCHILD: Commissioner McAllister.
- 12 COMMISSIONER McALLISTER: Aye.
- 13 CHAIRMAN HOCHSCHILD: And Commissioner Monahan.
- 14 COMMISSIONER MONAHAN: Aye.
- 15 CHAIRMAN HOCHSCHILD: And I vote age as well.
- 16 Item 10 passes unanimously.
- We'll turn now to Item 11, Lead Commissioner or
- 18 Presenting Member Reports, beginning with Commissioner
- 19 Monahan.
- 20 COMMISSIONER MONAHAN: Well, I just want to start
- 21 with the excitement that I have for my -- the fact that I
- 22 have a new team of advisors. I think I introduced Sarah at
- 23 a business meeting. My latest advisor from the rotational
- 24 assignment is Ben Wender, and he comes from ERDD, long
- 25 history in working on vehicle to grid issues at the CEC,

- 1 has a PhD in engineering. He's published numerous papers
- 2 on life cycle analysis, including battery recycling. So,
- 3 he just brings a wealth of expertise in the transportation
- 4 side to the team, so, really excited to have him join us.
- 5 We had our first in-person retreat at Sarah's
- 6 house, and it was great to feel like, okay. It was a
- 7 little traumatic to lose both of my advisors
- 8 simultaneously, so just excited to have a team to rely on
- 9 and be able to move forward for this year.
- I also wanted to just highlight that we had our
- 11 last meeting of the EV Charging Infrastructure Strikeforce,
- 12 and you might recall that this -- we started this
- 13 initiative two years ago, exactly two years ago pretty much
- 14 with CALETC, the California Electric Transportation
- 15 Coalition, being kind of the lead agency or lead
- 16 organization pulling it together. But the Co-Chairs of
- 17 that were Cathy Zoi from EVgo. She's the head of EVgo, I
- 18 think the CEO, and Angelo Logan, who until pretty recently
- 19 was the policy lead from the Moving Forward Network, and he
- 20 was also on President Biden's Environmental Justice
- 21 Advisory Committee, and just a really great person, great
- 22 set of co-chairs.
- 23 And the idea was like let's lead with equity when
- 24 it comes to EV charging, and let's make sure that there is
- 25 a healthy budget for EV charging.

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- 2 ago, a hundred million dollar per year budget, a billion
- 3 last year from the general fund, over two billion this
- 4 year, federal funds coming in, still, basically the strike
- 5 force was okay, check the box, we kind of did it.
- 6 At the last meeting we had a very robust
- 7 discussion about one of the products of one of the work
- 8 groups which was an equity analysis of EV charging. And I
- 9 want to thank Larry Vieta (phonetic) who was our staff lead
- 10 on that. He really did an amazing job sort of facilitating
- 11 between a lot of different groups, including industry
- 12 groups, environmental justice groups on the ground, this
- 13 kind of guidance document which is, I think, a great input
- 14 into the internal process that we're having in the fields
- 15 of transportation division to better define community
- 16 benefits.
- So, we'll be over the next several months and
- 18 into next year developing specific criteria around
- 19 community benefits that we'll be measuring. And that
- 20 report from the strike force is going to be a great input
- 21 into it.
- So, it's very rare that you start and finish an
- 23 initiative. You know, usually these things they can drive
- 24 on forever, or they just -- they're not very short in
- 25 lifespan. This one I feel like was the right lifespan for

- 1 this initiative.
- 2 And now we're really in the implementation phase
- 3 where we as an agency have to make sure that we have a
- 4 robust public process in our -- in how we distribute our
- 5 funding. So, we're kind of moving away from this EV strike
- 6 force into like now we have these funds. Let's make sure
- 7 we do this right.
- 8 The last thing I want to say is, and I guess I
- 9 shared a picture with all of you guys, taking a ride in
- 10 that cruise autonomous vehicle in San Francisco. I would
- 11 recommend it. It was a really interesting experience to be
- 12 in a driverless vehicle. And we're going to see more and
- 13 more of them on the road, so I would recommend taking a
- 14 ride. They'll welcome you. And that's all.
- 15 CHAIRMAN HOCHSCHILD: All right. Thank you.
- 16 Let's go to Commissioner Vaccaro.
- 17 COMMISSIONER VACCARO: Thank you. I'll keep this
- 18 brief. So, just a couple of things that I did recently. I
- 19 had the privilege of speaking at a Reuter's Floating
- 20 Offshore Wind conference just last week, and it was -- felt
- 21 like an intimate conference of folks who are very excited
- 22 about the prospect of offshore wind in federal waters off
- 23 the coast of California. So, really privileged to be there
- 24 and speak, and hear all of the insights and really good
- 25 recommendations for the Commission to consider as we

- 1 continue to do our work under Assembly Bill 525, and as we
- 2 work towards the permitting road map and the strategic plan
- 3 that's due in June of 2023.
- I was also able to participate in a discussion
- 5 with local leaders and representative of Bureau of Land
- 6 Management and a discussion that was hosted by University
- 7 of California, Riverside, moderated by V. John White,
- 8 really talking about some of the opportunities and
- 9 challenges of renewable energy projects and deployment in
- 10 San Bernadino County. Very important conversation for us
- 11 to be having as we're looking at the SB 100 resource
- 12 buildout and what that means in terms of land use
- 13 implications. So, I was very pleased to be part of that
- 14 discussion.
- 15 Something that is going to be coming up tomorrow
- 16 I am very excited about which is the Blue Ribbon Commission
- 17 on Lithium Extraction California, also known as the Lithium
- 18 Valley Commission, is expected to take action hopefully to
- 19 approve its report that is due to the legislature. That
- 20 Commission determined that it wishes to submit that report
- 21 by December  $1^{st}$  to the legislature. We are really so close.
- 22 At the next meeting of our Commission, I'd like to reflect
- 23 on some of that work.
- 24 But as I sit here today, just so appreciative of
- 25 the dedication and the time of each of those 14 appointed

- 1 members over the past almost two years to really focus on
- 2 this. It's been a very heavy lift, and they have centered
- 3 community voices, they've centered tribal voices in much of
- 4 the work that's been done here. A lot to commend, you
- 5 know, in terms of their focus and their commitment.
- 6 And, of course, you know our Renewable Energy
- 7 Division staff has done a tremendous job supporting the
- 8 Lithium Valley Commission. So, more to say about that once
- 9 we get through tomorrow's meeting, but I'm really excited
- 10 about tomorrow and feel like it is very important for me to
- 11 make sure to recognize how much work it has taken and how
- 12 much commitment. They are folks, they're not per diem.
- 13 They don't get paid for any of this work, and it's taken
- 14 quite a bit of their time and focus and attention I think
- 15 to get this far. So, I think I'll leave it there.
- 16 CHAIRMAN HOCHSCHILD: Well said, and congrats.
- 17 That's tremendous. We'll turn now to Vice Chair Gunda.
- 18 VICE CHAIR GUNDA: Thank you, Chair. So, just
- 19 wanted to give a few updates and set some policy questions
- 20 I think for discussion as we move forward.
- 21 So, since the last business meeting on the  $24^{th}$  of
- 22 October, so one of the highlights has been an opportunity
- 23 to moderate a panel in Kern County in Bakersfield on
- 24 finding common ground. It was an incredible privilege to
- 25 be able to moderate a panel between oil and gas industry

- 1 and community leaders on how to move forward in this clean
- 2 energy transition recognizing that we're moving from the
- 3 highly industrialized past to a highly industrialized
- 4 future, and along the way there are going to be tough
- 5 choices for us to make.
- I think there is agreement on what the point B
- 7 is, our destination is, and the realities of today in terms
- 8 of the inequities and how do we ensure those inequities
- 9 don't persist in point B and along the way. And it has
- 10 been an incredible opportunity. I think it was one of the
- 11 scariest things I've done in my life. I could not sleep
- 12 the night before. I didn't just know how the panel was
- 13 going to go, but it went well.
- 14 And I think it was an opportunity to also
- 15 recognize that when we have opposing points of view the
- 16 importance of finding humanity during the discussion. and
- 17 respect, and ability to let the other person voice their
- 18 opinion and concern without feeling threatened, and the
- 19 importance of choosing your words wisely.
- 20 So, it was an incredible opportunity, and I just
- 21 wanted to elevate that, you know, we have a lot of public
- 22 comments coming in. We have a lot of comments that, you
- 23 know, are always good to hear in between each other and the
- 24 broader constituency choosing words to help each other move
- 25 forward would be great, suggesting that set that stage.

- 1 Another couple things. Commissioner McAllister
- 2 will probably speak to it. He and I had an opportunity to
- 3 speak at SedNet annual conference to just kind of set the
- 4 stage on some of the opportunities for the demand side.
- 5 Incredibly grateful.
- 6 One thing I want to elevate for us as a Commission to
- 7 really think about as a point of discussion is we are
- 8 working pretty hard on the demand side, but I do not
- 9 believe, and I think Commissioner McAllister will probably
- 10 back me on this, a unified, robust, comprehensive vision of
- 11 the future on the demand side and the broad (indiscernible)
- 12 strategy. I think -- there's different elements that we're
- 13 all tackling and, you know, 846 provides us some
- 14 opportunity to elevate the conversation, but I think I want
- 15 to use this opportunity to just continue to request, you
- 16 know, the key stakeholders to, you know, share their vision
- 17 of how we want to get, you know, into a future where demand
- 18 flexibility and demand response is a reality. I know we
- 19 have approximately 1,500 today that we depend on in the
- 20 resource stack. You know, how could we get to 3,000,
- 21 4,000, you know, in the next 10 years. I think this is the
- 22 section that Commissioner Monahan comes, especially on the
- 23 V to G side. You know, we've been using this statistic
- 24 that there is 10 gigs on the wheels today in terms of the
- 25 storage and how do we use that to really address not only

- 1 the middle peaks, but also the broader resource
- 2 transitions. I just wanted to elevate that as a policy
- 3 opportunity for all of us to think through and put a
- 4 unified vision into how best to realize that.
- 5 Finally, I just wanted to say a big, big thank
- 6 you, Chair, to you and Drew at the Governor's office for,
- 7 you know, having the privilege to go to COP-27 and to
- 8 present the seat in the California delegation. It was an
- 9 incredible opportunity.
- 10 The highlight, of course, was hanging out
- 11 with Commissioner Rechtschaffen from PUC. He just --
- 12 absolute pleasure to California Water, breadth of
- 13 experience and the ability he has. So, it was just really
- 14 good to learn from him.
- 15 A few things to elevate from COP-27. The
- 16 importance of some national leadership has come up over and
- 17 over again as a safety net to the changing dynamics at the
- 18 subnational level, and the recognition of California's
- 19 incredible work in climate change.
- 20 So, I just wanted to elevate that, you know, just
- 21 congratulations to everybody in California that works on
- 22 energy policy, the leadership calls for every single
- 23 individual Californian whose heart is in climate change and
- 24 how to be influence that, and we had had a robust vision on
- 25 how to move forward. So, that came up.

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- 2 environmental justice and mean if this COP had been adopted
- 3 as an implementation, so a lot of conversation on loss and
- 4 damages in developing countries, how do we support that.
- 5 So, that was an important conversation.
- 6 And there was also a conversation specifically
- 7 for us, what are some of the technologies and strategies
- 8 that California is unlocking for the broader globe. And I
- 9 think, you know, we were able to elevate again we V to G,
- 10 me and Commissioner Rechtschaffen had a number of speaking
- 11 engagements where we were able to speak about vehicle
- 12 integration, broad building decarbonization, load
- 13 management standards that Commissioner McAllister is
- 14 working on, and elevating the opportunity on the demand
- 15 side management along the electrification path.
- 16 We were also able to elevate Commissioner
- 17 Vaccaro's work on offshore wind and the importance of
- 18 California's work in unlocking that as a technology and the
- 19 lithium valley overall.
- 20 So, I would not be able to speak to all of them
- 21 well, so I was really glad that Commissioner Rechtschaffen
- 22 was there. He could speak to anything and set up the
- 23 energy conversation, and I was able to share my thoughts on
- 24 the liability and strategies.
- 25 A couple of unique opportunities for us to build

- 1 some use with sister provinces across, you know, across the
- 2 globe. You know, Commissioner McAllister has been recently
- 3 in Australia. His work on New South Wales, I think there
- 4 is a real good opportunity that New South Wales has a
- 5 (indiscernible) not only on the building efficiency side,
- 6 but their issues on liability are exactly the same that we
- 7 have, so we were able to talk about that.
- 8 Our opportunities with India, provinces in India,
- 9 Brazil and Scotland are other conversations we had.
- 10 So, I will try to send a debrief document to all
- 11 of you, and my partner in the enjoyment and learning was
- 12 Elizabeth Huber who was able to go with me, and it was
- 13 great to have her on the trip and learn together and share
- 14 our stories with her in a broader world learning and
- 15 sharing. So, thank you.
- 16 CHAIRMAN HOCHSCHILD: Great. Thank you so much,
- 17 Vice Chair. Let's go to Commissioner McAllister.
- 18 COMMISSIONER McALLISTER: Well, thanks a lot.
- 19 Just a few things to comment on. I will just raise my hand
- 20 and be the first to offer to lead the delegation to
- 21 (indiscernible). Yeah, I think they will have a new
- 22 president. I think they have a little bit of a new posture
- 23 on clean energy, so sort of like Australia, like this
- 24 happened to Australia recently with their new government
- 25 that is really committed in trying to make up for lost time

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- 1 in the previous -- that the previous government kind of
- 2 didn't do a whole lot on the climate front.
- 3 So, shifting lens in various directions, but such
- 4 positive stuff going out, so I appreciate it. And, you
- 5 know, really looking forward to hearing about all the play
- 6 by play from COP, and I'm sure you were quite the road show
- 7 with Commissioner Rechtschaffen, quite the tag team and
- 8 duo.
- 9 First, I wanted to start off with thanking staff
- 10 on a couple of fronts. So, you know, we had an item on the
- 11 fans and blowers that was sort of under the hood, you know,
- 12 really kind of bread and butter, not sexy but getting lots
- 13 of results.
- 14 And there are just a couple of key activities in
- 15 the Efficiency Division that I wanted to highlight that
- 16 really are along those lines that, you know, you wouldn't
- 17 necessarily have heard about in any sort of public, you
- 18 know, media, but they are both fundamentally important.
- 19 The first one is getting ready for the 2025,
- 20 getting moving on the 2025 building code update. And staff
- 21 has been really laying the foundation, doing the blocking
- 22 and tackling to start that conversation in earnest.
- 23 And the first big step on that front is the
- 24 energy accounting, deciding what the metrics are for our
- 25 cost effectiveness and our energy efficiency goals, like

- 1 how we're going to engage, which measures are in the code
- 2 update and which don't quite make the cut. So how do we
- 3 prioritize the different measures in the building code.
- 4 So, the system life cycle cost and the -- and the source
- 5 energy, the lifetime source energy -- their hourly source
- 6 energy, rather, as a metric. So, the two are used to do
- 7 that. And it's actually quite technical, and there's a big
- 8 team in the building standards office, you know, led
- 9 capably by Will, and, you know, all the staff in that
- 10 office along with our partners at E3 and NORESCO.
- 11 And I want to commend also Eric Jensen for
- 12 keeping those trains running and just really doing the
- 13 coordination for that. So, there have been two workshops
- 14 on that already and with lots of robust participation. You
- 15 know, we've got a really knowledgeable stakeholder group
- 16 out there in California that is helping us get that right.
- 17 So, I just wanted to highlight that. And it gets
- 18 pretty technical, but I would encourage folks to kind of
- 19 get at least a high level briefing on that because I think
- 20 it is important to our long-term work on the building
- 21 standards which are obviously key to carbonization pathway.
- The second kind of block and tackle kind of
- 23 activity is updating our HERS regime, our home energy, our
- 24 residential kind of energy efficiency regime existing
- 25 buildings, well, for new and existing buildings, but the

- 1 kind of restructuring the Title 24 and Title 20 enforcement
- 2 regime around the building standards.
- And, so, the first workshop happened yesterday.
- 4 I think it was highly successful on field verification and
- 5 diagnostic testing. So, how do we actually make sure that
- 6 the projects that are done on the new building, new
- 7 construction and on retrofits, in particular retrofits
- 8 where we have an issue that we need to solve. It is, you
- 9 know, really kind of revisiting and redoing that anew. So,
- 10 you know, how do we make sure that enforcement is actually
- 11 happening, that compliance is happening.
- So, there was a workshop yesterday and I want to
- 13 just commend Joe Loyer and Lorraine White, Armando Ramirez
- 14 and the whole team as well as CCO. You know, Linda has
- 15 been tremendous in her leadership, and Jimmy as well, and
- 16 Matt Chalmers and Justin Delacruz, Matt Pinkerton. They've
- 17 all really contributed to that in earnest. And Christine
- 18 also Colope (phonetic) has been key there and Ronnie
- 19 Raxster (phonetic) as well, no longer with the Efficiency
- 20 Division, but really, really a team effort in the next six
- 21 years.
- 22 So, that update is going to be, I think, it's
- 23 going to create a lot of conversations that you'll hear
- 24 about because it is actually a pretty broad reform of the
- 25 compliance and enforcement regime, and so those are two

- 1 rulemakings, one in TItle (indiscernible) and Title 44
- 2 moving forward. So, just heads up on that.
- 3 And then another couple things. Really I want to
- 4 just commend Thao Chau and the team on getting the
- 5 California utility allowance calculator updated and
- 6 improvised, so that's going to really help in our pursuit
- 7 of efficiency in affordable housing. So, it's a way that
- 8 landlords can actually know what to charge for rent and
- 9 what to allow for in terms of efficiency and decreased
- 10 energy bills. So, it helps landlords and helps renters in
- 11 affordable housing really double down on efficiency. So,
- 12 Thao been leading that.
- I did a trip to the Resilient Harvests conference
- 14 which was extremely interesting and Thao Chau also
- 15 organized that, so she is really doing double duty working
- 16 very hard and effectively. But that's indoor cultivation,
- 17 so all types, vegetables, cannabis, you name it, all sorts
- 18 of different consumer bases and, you know, manufacturing
- 19 processes, et cetera. But that is increasingly
- 20 industrialized and, so, with the large energy consumer lots
- 21 of lighting, but also lots of HVAC energy use. And so,
- 22 we're getting a handle on how to approach that in the
- 23 building code and working with all these stakeholders. And
- 24 they were eager to participate with the Energy Commission.
- It's really a testament to the staff, just open

- 1 door and really listening to what's a quickly growing part
- 2 of our economy, so I'm excited to engage with them further
- 3 and make sure that we get the code right with respect to
- 4 those industries.
- 5 Lots of progress, I think, and lots of good
- 6 thinking on how to bring both the State general fund money
- 7 and the Federal Inflation Reduction Act funds to building
- 8 decarbonization. So really commending Deana and Mike and
- 9 their joint division work on conceptualizing those programs
- 10 and getting them moving forward, getting the design moving
- 11 forward and starting to have public interactions about
- 12 those.
- So, really super excited about the building
- 14 decarbonization efforts. Opportunity and challenge, you
- 15 know, they come hand in hand, so we're going to get a
- 16 billion and a half dollars to do building decarb, but we
- 17 really have to make it count. So, I know we're all going
- 18 to rise to that challenge.
- I guess -- so on the CEDMEC front, so Vice Chair
- 20 Gunda mentioned that, but we have an amazing group of
- 21 stakeholders that are members of the California Demand
- 22 Management and Efficiency Council, and they do a conference
- 23 every year and are really primed to be partners. Many of
- 24 them operate in the utility portfolio space in efficiency
- 25 and demand response, and as we, you know, really bring a

- 1 lot of resources to bear on those efforts, we need to
- 2 coordinate with them, and I think they have a really great
- 3 stakeholder group to coordinate with.
- But I do agree with Vice Chair Gunda that we've
- 5 got to parse out what demand management actually means.
- 6 You know, demand response is a term that really has kind of
- 7 outlived its usefulness, and really, we're talking about
- 8 specific sets of complementary resources that all are on
- 9 the demand side. And, so -- and they touch us in different
- 10 ways in our various responsibilities. So, technology is
- 11 going to be a big part of the solution to quantify and to
- 12 control end uses in a coordinated way and quantify the
- 13 impacts. And I think there's just -- as I said, I think
- 14 there's very broad knowledgeable interest in helping us
- 15 together with the energy agencies figure out the path to
- 16 point B, so excited about that.
- I guess finally I just wanted to mention that it
- 18 was, again, a real pleasure to go down to San Diego for the
- 19 Leslie K. McAllister Climate and Energy Symposium -- the
- 20 Climate and Energy Law Symposium. And, you know, obviously
- 21 that's renamed in honor of my late wife. And I was just so
- 22 -- I don't necessarily have to play a role every year, but
- 23 this year it just came together, but I did play a role.
- 24 It's really her day. But I just want to thank the Chair
- 25 and President Reynolds from the PUC and Chair Randolph from

- 1 the Air Resources Board for doing the keynote panel and
- 2 really giving that event this year the kind of level and
- 3 gravitas that I think it deserves. So, I was able -- I
- 4 moderated the panel subsequent to that, you know, about
- 5 decarbonizing the grid, electric grid, in California. But
- 6 I think that really the one was really set by that keynote
- 7 panel. It was fantastic, and just thanks to the Chair and
- 8 leaders of the three energy agencies, so I appreciate that.
- 9 And with that, I will pass the mike back to the
- 10 Chair.
- 11 CHAIRMAN HOCHSCHILD: Well, thank you so much,
- 12 Commissioner, and, yeah, it was my honor and privilege to
- 13 join in really a wonderful event, wonderful discussion, and
- 14 I know I had the good fortune to know your wife a little
- 15 bit, and I just know how incredibly proud she would be of
- 16 everything you're doing day in and day out to advance this
- 17 shared vision we have and that she shared as well, building
- 18 the clean energy sustainable future. So, that was an honor
- 19 to be able to join you.
- As we approach the end of the year, I always tend
- 21 to try to come out of the valley a little bit and go up to
- 22 the mountaintop and just get a little pushback. And, you
- 23 know, we had an election last week. The governor got
- 24 reelected. And at this point I think all of us on the
- 25 Commission have either been appointed or reappointed by

- 1 Governor Newsom, and just, you know, from my perspective,
- 2 you know, continues to be the honor of a lifetime to be
- 3 able to work in an administration that's so focused on
- 4 climate. This is why I'm doing this work and here every
- 5 day, and I feel that is shared by all of us.
- 6 There's a quote I love from President Biden. He
- 7 said, "Don't tell me what your values are, show me your
- 8 budget and I'll tell you what your values are." And, you
- 9 know, I think when I look at our budget and how climate and
- 10 justice, you know, have really been elevated, you know,
- 11 it's extraordinary. We have a 10% increase in our budget
- 12 this year to do all the stuff that we are passionately in
- 13 support of, everything from offshore wind to electric
- 14 vehicles, to building decarbonization, to energy storage,
- 15 renewables, travel microgrids, and an incredible honor.
- And also, just to be a part of this team with
- 17 such talented and dedicated and motivated staff, it really
- 18 keeps me going as we approach the end of the year just for
- 19 the chance to be able to be a part of this amazing
- 20 organization and build this future together.
- 21 And just to continue on that note, you know, the
- 22 tribal work in particular, you know, we did an event down
- 23 with the Kumeyaay Indians. This was a project we approved
- 24 at the last meeting, 31-million-dollar energy storage
- 25 project, to our knowledge, the largest tribal grant ever

- 1 given by the state to a tribe in California and definitely
- 2 our largest long duration storage project. It's the eighth
- 3 tribal microgrid that the Energy Commission has funded.
- 4 We'll be doing a ninth early next year. And just wanted to
- 5 recognize, you know, what an incredible body of work that
- 6 is and the tribal energy sovereignty that represents the
- 7 event was really emotionally actually and beautiful. We
- 8 had a dinner with the tribe, and did, you know, a press
- 9 event.
- I just really wanted to recognize Lindsey Buckley
- 11 on the comp team and her terrific group over there for
- 12 working with the tribe just setting it up and creating an
- 13 amazing event, memorialize that, and it was a real
- 14 privilege to join them.
- I also want to recognize Noemi Guiardo yet again
- 16 for just a wonderful unity celebration with all the Energy
- 17 Commission staff by Zoom I guess a week or two ago, just a
- 18 chance for folks to share their stories, how their families
- 19 came to the United states, and it was just really beautiful
- 20 and authentic, and, you know, I think as we talked about
- 21 the way you get through tough times and tough challenges is
- 22 by coming together and building that cohesion and getting
- 23 to know each other better. And, Noemi, you and Carosel and
- 24 Dorothy, you guys pulled off an incredible event, really
- 25 the heartbeat of the Energy Commission.

- 1 So, I did a couple of Clean Tech San Diego and
- 2 some lithium valley stuff, but I think I'll just wrap
- 3 there.
- 4 So, with that, lets turn now to Item 12,
- 5 Executive Director's Report.
- 6 EXECUTIVE DIRECTOR BOHAN: Thank you, Chair.
- 7 Good afternoon, Chair, Vice Chair, members. No report
- 8 today, a great November.
- 9 CHAIRMAN HOCHSCHILD: Okay. Let's go to Item 13,
- 10 Public Advisor's Report.
- MS. BADIE: Thank you, Chair. No reports from my
- 12 office.
- 13 CHAIRMAN HOCHSCHILD: Okay, thanks. Item 14,
- 14 Public Comment.
- 15 MS. MURIMI: Thank you, Chair. So, this is a
- 16 period for any person wishing to comment on information
- 17 items or reports of the meeting agenda or any other items.
- 18 Each person has up to three minutes to comment, and
- 19 comments are limited to one representative per
- 20 organization. We may reduce the comment time, depending on
- 21 the number of commentors. After you are called on, please
- 22 restate and spell your first and last name and state your
- 23 affiliation, if any.
- 24 For those joining via Zoom, use the raised hand
- 25 feature to indicate that you'd like to make a comment. For

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- 1 those calling in, press star nine to raise your hand and
- 2 star six to unmute on your end. I'll begin with on Zoom.
- 3 I see Claire Warshaw. Your line is unmuted. Please state,
- 4 spell your name, give your affiliation. You may begin.
- 5 MS. WARSHAW: Hi, my name is Claire Warshaw.
- 6 That's C-L-A-I-R-E, and then W-A-R-S-H-A-W. I'm a member
- 7 of the public and no affiliation.
- I wanted to mention something that I'm reminded
- 9 of by something said in this meeting. It's about LED
- 10 lights. And I have really appreciated the LED light
- 11 transition from the incandescent traditional bulbs that had
- 12 to be replaced so often. I've noticed a big difference in
- 13 replacing bulbs around my home.
- I understand there is some danger in replacing
- 15 bulbs because if you don't know what you're doing watts to
- 16 watts doesn't necessarily make sense because they are so
- 17 much more powerful. And, so, I know that there are
- 18 instructions and people can access them, but there are
- 19 apparently people that don't access instructions, and it
- 20 gets kind of dangerous.
- 21 For instance, at Sacramento City College I know
- 22 when I was attending there someone had installed a very
- 23 super bright light. It was actually painful to be under.
- 24 It kind of almost becomes a security device, and maybe
- 25 that's why they did that at that time. I don't know if

- 1 they took it out afterwards. They might have.
- 2 I've also noted like sports lighting that seems
- 3 much more brighter than it needs to be. And recently my
- 4 nearby post office has installed in a parking lot 24-hour
- 5 parking lot street lights, and I've seen that in a few
- 6 other places. I'm not sure how that is allowed or why that
- 7 is happening, if that's fine because we have solar during
- 8 the day and so they don't care. I'm not sure.
- 9 But I do think it is something to be aware of
- 10 that can be talked about a little bit by speakers if they
- 11 have a chance, and perhaps a little bit more instruction in
- 12 making it a little bit easier on the laypeople. I've seen
- 13 arguments by one woman on Linkedin who thinks that LED
- 14 lighting shouldn't be allowed at all because of the way
- 15 it's been installed in like even vehicle lighting and how
- 16 bad it is for humans. And it's a difficult argument when
- 17 you know how long it can last and just the better qualities
- 18 that can happen. So, I just want to encourage on that,
- 19 public education, of possible. Thank you.
- MS. MURIMI: Thank you, Claire. All right, give
- 21 one more opportunity for public comment. Again, use the
- 22 raised hand feature if you are on Zoom, and if you are
- 23 calling in press star nine. Seeing no more comments,
- 24 Chair, I hand the mike back.
- 25 CHAIRMAN HOCHSCHILD: Thank you. Let's turn now

1	to Item 15, Chief Counsel's Report.
2	MR. WARD: Good afternoon, Chair. This is Alan
3	Ward sitting for Chief Counsel Linda Barrera. Our office
4	has no report today. Thank you.
5	CHAIRMAN HOCHSCHILD: Okay. Thank you so much.
6	We're adjourned. Appreciate.
7	(Business meeting adjourned at 12:17 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 20th day of December, 2022.

MARTHA L. NELSON, CERT\*\*367

Martha L. Nelson

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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 20th day of December, 2022.

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